Open Source Used In Kinetic for Cities 4.0.0.0

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1.3 activiti-bpmn-converter 6.0.0
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1.5 activiti-bpmn-model 6.0.0

1.6 activiti-bpmn-model 5.22.0

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1.7 activiti-common-rest 5.22.0

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1.8 activiti-dmn-api 6.0.0

1.9 activiti-dmn-model 6.0.0

1.10 activiti-engine 6.0.0

1.11 activiti-engine 5.22.0

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1.12 activiti-form-api 6.0.0

1.13 activiti-form-model 6.0.0

1.14 activiti-image-generator 5.22.0
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1.15 activiti-image-generator 6.0.0

1.16 activiti-process-validation 5.22.0
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1.17 activiti-process-validation 6.0.0

1.18 activiti-rest 5.22.0
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Terence Parr
parrt@cs.usfca.edu
parrt@antlr.org

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1.31 antlr-3.1.1-runtime.jar 3.1.1

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oriae$Ljava/lang/IllegalArgumentException;
SourceFile

writeShort(1)V

java/io/DataInput

readShort

append-(Ljava/lang/String;):Ljava/lang/StringBuilder

length

EXECUTE

implies-(Lorg/apache/hadoop/fs/permission/FsAction;)Z

replace/(IILjava/lang/String;)Ljava/lang/StringBuilder;

length

EXECUTE

implies-(Lorg/apache/hadoop/fs/permission/FsAction;)Z

replace/(IILjava/lang/String;)Ljava/lang/StringBuilder;

notandV

(Lorg/apache/hadoop/fs/permission/FsAction;)Lorg/apache/hadoop/fs/permission/FsAction;

org/apache/hadoop/io/Writable

writeShort(I)V

java/io/DataInput	readShort

ordinal

SYMBOL

append-(Ljava/lang/String;)Ljava/lang/StringBuilder;

length

EXECUTE

implies-(Lorg/apache/hadoop/fs/permission/FsAction;)Z

replace/(IILjava/lang/String;)Ljava/lang/StringBuilder;

notandV

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org/apache/hadoop/io/Writable

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java/io/DataInput	readShort

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writeShort(I)V

java/io/DataInput	readShort

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(Lorg/apache/hadoop/fs/permission/FsAction;)Lorg/apache/hadoop/fs/permission/FsAction;

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Joseph Reagle <site-policy@w3.org>

Last revised by Reagle $Date: 2005-06-03 18:49:13 -0400 (Fri, 03 Jun 2005) $

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The actual DOM Java Language Binding classes in xml-commons came from:
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The specification of DOM Level 3’s various parts is at:
http://www.w3.org/TR/2004/REC-DOM-Level-3-Core-20040407/
http://www.w3.org/TR/2004/REC-DOM-Level-3-LS-20040407/
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The specification of DOM Level 2’s various parts is at:
http://www.w3.org/TR/2000/REC-DOM-Level-2-Events-20001113/
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http://www.w3.org/TR/2000/REC-DOM-Level-2-Traversal-Range-20001113/
http://www.w3.org/TR/2000/REC-DOM-Level-2-Views-20001113/

The specification of DOM Level 1’s various parts is at:

Links to all available W3C DOM Java Bindings can be found at:
http://www.w3.org/DOM/DOMTR

The actual classes of The Simple API for CSS (SAC) came from:
http://www.w3.org/Style/CSS/SAC/
http://www.w3.org/2002/06/sacjava-1.3.zip

The actual DOM Java Language Binding classes for SMIL came from:
http://dev.w3.org/cvsweb/java/classes/org/w3c/dom/smil/
(both ElementTimeControl.java and TimeEvent.java were taken at revision 1.1)
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From 3d8e9e77bba3026ec154073b835be3a0e8f7a5ec Mon Sep 17 00:00:00 2001
From: Thomas White <tomwhite@apache.org>
Date: Thu, 11 Dec 2014 11:38:17 +0000
Subject: [PATCH 078/115] AVRO-1622. Add missing license headers.

git-svn-id: https://svn.apache.org/repos/asf/avro/trunk@1644603 13f79535-47bb-0310-9956-ffa450edef68

Conflicts:
lang/java/avro/src/main/java/org/apache/avro/util/internal/JacksonUtils.java
lang/java/avro/src/test/java/org/apache/avro/util/internal/TestJacksonUtils.java
lang/java/tools/src/test/java/org/apache/avro/tool/TestTetherTool.java
lang/py/ivy.xml
lang/py/ivysettings.xml
lang/py/test/set_avro_test_path.py
Resolution:
   Did not add license headers to files created in commits that have
   not been backported.
   ---
   lang/csharp/src/apache/ipc/HttpListenerServer.cs   |   20 +++++++++++++++++++-
   lang/csharp/src/apache/ipc/HttpTransceiver.cs      |   20 +++++++++++++++++++-
   .../src/apache/test/Ipc/HttpClientServerTest.cs    |   20 +++++++++++++++++++-
   .../apache/avro/tool/TestDataFileRepairTool.java   |   17 +++++++++++++++++
4 files changed, 74 insertions(+), 3 deletions(-)
diff --git a/lang/csharp/src/apache/ipc/HttpListenerServer.cs b/lang/csharp/src/apache/ipc/HttpListenerServer.cs
index e4afa44..66de091 100644
--- a/lang/csharp/src/apache/ipc/HttpListenerServer.cs
+++ b/lang/csharp/src/apache/ipc/HttpListenerServer.cs
@@ -1,4 +1,22 @@
-    using System;
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+ * or more contributor license agreements. See the NOTICE file
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;

using System;
using System.Collections.Generic;
using System.Linq;
using System.Reflection;

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 */

using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;

using System;
using System.Collections.Generic;
using System.Linq;
using System.Reflection;

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 */

using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;

using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;

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 */

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using System.Collections.Generic;
using System.Linq;
using System.Text;

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 */

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using System.Collections.Generic;
using System.Linq;
using System.Text;
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+ */
package org.apache.avro.tool;

import java.io.ByteArrayOutputStream;

---
1.7.9.5
From 56a512376f31ccd3313f7822eed0a471c29fea09 Mon Sep 17 00:00:00 2001
From: Doug Cutting <cutting@apache.org>
Date: Thu, 3 Jul 2014 21:20:34 +0000
Subject: [PATCH 049/115] AVRO-1315. Add missing license header.

git-svn-id: https://svn.apache.org/repos/asf/avro/trunk@1607748 13f79535-47bb-0310-9956-ffa450edef68
---
.../org/apache/avro/SchemaValidationStrategy.java  |   18 ++++++++++++++++++
1 file changed, 18 insertions(+)

diff --git a/lang/java/avro/src/main/java/org/apache/avro/SchemaValidationStrategy.java
   b/lang/java/avro/src/main/java/org/apache/avro/SchemaValidationStrategy.java
index 6c261f7..dc1c9cc 100644
--- a/lang/java/avro/src/main/java/org/apache/avro/SchemaValidationStrategy.java
+++ b/lang/java/avro/src/main/java/org/apache/avro/SchemaValidationStrategy.java
@@ -1,3 +1,21 @@
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+ *
+ * /**
+ * @param license
+ */
+package org.apache.avro;

/**
--
1.7.9.5
From 08e342c6aff8184b5d1633ce9abe46e4b44f1d32 Mon Sep 17 00:00:00 2001
From: tomwhite <tomwhite@13f79535-47bb-0310-9956-ffa450edef68>
Date: Wed, 15 Jul 2015 14:50:35 +0000
Subject: [PATCH 102/115] Add missing license headers.

---

git-svn-id: https://svn.apache.org/repos/asf/avro/trunk@1691232 13f79535-47bb-0310-9956-ffa450edef68
---

index bb7eb3d..c3baf4e 100644
--- a/lang/java/avro/src/main/java/org/apache/avro/Conversion.java
+++ b/lang/java/avro/src/main/java/org/apache/avro/Conversion.java
@@ -1,3 +1,21 @@
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+ */
+
+package org.apache.avro;

import java.nio.ByteBuffer;

diff --git a/lang/java/avro/src/main/java/org/apache/avro/Conversions.java b/lang/java/avro/src/main/java/org/apache/avro/Conversions.java

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 */

package org.apache.avro;

import java.math.BigDecimal;

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 */

package org.apache.avro;
+ package org.apache.avro;

import org.apache.avro.generic.GenericData;

diff --git a/lang/java/avro/src/main/java/org/apache/avro/LiberalTypes.java
b/lang/java/avro/src/main/java/org/apache/avro/LiberalTypes.java
index 5c7daf4..3f96340 100644
--- a/lang/java/avro/src/main/java/org/apache/avro/LiberalTypes.java
+++ b/lang/java/avro/src/main/java/org/apache/avro/LiberalTypes.java
@@ -1,3 +1,21 @@
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+ */
+
+ package org.apache.avro;

import java.util.Map;

diff --git a/lang/java/avro/src/main/java/org/apache/avro/data/TimeConversions.java
b/lang/java/avro/src/main/java/org/apache/avro/data/TimeConversions.java
index a05f006..b53bb1f 100644
--- a/lang/java/avro/src/main/java/org/apache/avro/data/TimeConversions.java
+++ b/lang/java/avro/src/main/java/org/apache/avro/data/TimeConversions.java
@@ -1,3 +1,21 @@
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+ */
+
package org.apache.avro.

import org.apache.avro.data;

import org.apache.avro.Conversion;

diff --git a/lang/java/avro/src/test/java/org/apache/avro/TestCircularReferences.java
b/lang/java/avro/src/test/java/org/apache/avro/TestCircularReferences.java
index d87dcd9..79d8c1e 100644
--- a/lang/java/avro/src/test/java/org/apache/avro/TestCircularReferences.java
+++ b/lang/java/avro/src/test/java/org/apache/avro/TestCircularReferences.java
@@ -1,3 +1,21 @@
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+ */
+
package org.apache.avro;

import java.io.File;

diff --git a/lang/java/avro/src/test/java/org/apache/avro/TestLogicalType.java
b/lang/java/avro/src/test/java/org/apache/avro/TestLogicalType.java
index 29f41d3..0b2667f 100644
--- a/lang/java/avro/src/test/java/org/apache/avro/TestLogicalType.java
+++ b/lang/java/avro/src/test/java/org/apache/avro/TestLogicalType.java
@@ -1,3 +1,21 @@
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+ */
+package org.apache.avro;

import java.util.Arrays;

import java.util.Arrays;

diff --git a/lang/java/avro/src/test/java/org/apache/avro/data/TestTimeConversions.java
b/lang/java/avro/src/test/java/org/apache/avro/data/TestTimeConversions.java
index 1b90ea2..5e315cd 100644
--- a/lang/java/avro/src/test/java/org/apache/avro/data/TestTimeConversions.java
+++ b/lang/java/avro/src/test/java/org/apache/avro/data/TestTimeConversions.java
@@ -1,3 +1,21 @@
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+ */
+package org.apache.avro.data;

import org.apache.avro.LogicalTypes;

diff --git a/lang/java/avro/src/test/java/org/apache/avro/generic/TestGenericLogicalTypes.java
b/lang/java/avro/src/test/java/org/apache/avro/generic/TestGenericLogicalTypes.java
index f6d13ef..3a4b1e1 100644
--- a/lang/java/avro/src/test/java/org/apache/avro/generic/TestGenericLogicalTypes.java
+++ b/lang/java/avro/src/test/java/org/apache/avro/generic/TestGenericLogicalTypes.java
@@ -1,3 +1,21 @@
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+ */
+package org.apache.avro.data;

import org.apache.avro.LogicalTypes;
@@ -1,3 +1,21 @@
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+ */
+
+package org.apache.avro.reflect;

import java.io.File;

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b/lang/java/avro/src/test/java/org/apache/avro/reflect/TestReflectLogicalTypes.java
index 01ebba1..283433b 100644
--- a/lang/java/avro/src/test/java/org/apache/avro/reflect/TestReflectLogicalTypes.java
+++ b/lang/java/avro/src/test/java/org/apache/avro/reflect/TestReflectLogicalTypes.java
@@ -1,3 +1,21 @@
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+ */
+
+package org.apache.avro.reflect;
import java.io.File;
--
1.7.9.5

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 */

package org.apache.commons.codec;

/**
 * Defines common decoding methods for byte array decoders.
 *
 * @author Apache Software Foundation
 * @version $Id: BinaryDecoder.java,v 1.10 2004/06/15 18:14:15 ggregory Exp $
 */
public interface BinaryDecoder extends Decoder {

    /**
     * Decodes a byte array and returns the results as a byte array.
     *
     * @param pArray A byte array which has been encoded with the
     *              appropriate encoder
     *
     * @return a byte array that contains decoded content
     *
     * @throws DecoderException A decoder exception is thrown
     *              if a Decoder encounters a failure condition during
     *              the decode process.
     */
    byte[] decode(byte[] pArray) throws DecoderException;
}
The commons-codec team is pleased to announce the Codec 1.3 release!

http://jakarta.apache.org/commons/codec/

The codec package contains simple encoder and decoders for various formats such as Base64 and Hexadecimal. In addition to these widely used encoders and decoders, the codec package also maintains a collection of phonetic encoding utilities.

Changes in this version include:

New Features:

- BinaryCodec: Encodes and decodes binary to and from Strings of 0s and 1s. Issue: 27813. Thanks to Alex Karasulu.
- QuotedPrintableCodec: Codec for RFC 1521 MIME (Multipurpose Internet Mail Extensions) Part One. Rules #3, #4, and #5 of the quoted-printable spec are not implemented yet. See also issue 27789. Issue: 26617. Thanks to Oleg Kalnichevski.
- BCCodec: Identical to the Base64 encoding defined by RFC 1521 and allows a character set to be specified. Issue: 26617. Thanks to Oleg Kalnichevski.
- QCCodec: Similar to the Quoted-Printable content-transfer-encoding defined in RFC 1521 and designed to allow text containing mostly ASCII characters to be decipherable on an ASCII terminal without decoding. Issue: 26617. Thanks to Oleg Kalnichevski.

Fixed bugs:

- The default URL encoding logic was broken. Issue: 25995. Thanks to Oleg Kalnichevski.
- Base64 chunked encoding not compliant with RFC 2045 section 2.1 CRLF. Issue: 27781. Thanks to Gary D. Gregory.
- Hex converts illegal characters to 255. Issue: 28455.
- Metaphone now correctly handles a silent B in a word that ends in MB. "COMB" is encoded as "KM", before this fix "COMB" was encoded as "KMB". Issue: 28457.
- Added missing tags in Javadoc comments.
- General Javadoc improvements.

Changes:

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- The Board recommendation to remove Javadoc author tags has been
implemented. All author tags are now "Apache Software Foundation".

Have fun!
- The commons-codec team

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<html xmlns="http://www.w3.org/1999/xhtml">
<head>
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<title>Eclipse Public License - Version 1.0</title>
<style type="text/css">
body {
  size: 8.5in 11.0in;
  margin: 0.25in 0.5in 0.25in 0.5in;
  tab-interval: 0.5in;
}
p {
  margin-left: auto;
  margin-top: 0.5em;
  margin-bottom: 0.5em;
  ...
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1.73 c3p0 0.9.1.1

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<meta http-equiv="content-type" content="text/html; charset=utf-8" />
<link rev="made" href="mailto:webmasters@gnu.org" />
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<meta name="DC.title" content="gnu.org" />
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<link rel="stylesheet" href="/mini.css" media="handheld" />
<link rel="stylesheet" href="/layout.min.css" media="screen" />
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  <a href="/licenses/licenses.html">LICENSES</a>
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JUnit

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 */

package org.jets3t.service.acl;

/**
 * Represents an access permission, as granted to grantees in an @link AccessControlList
 * Only a limited set of permissions are available, each one is available as a public static
 * variable in this class of the form PERMISSION_XYZ.
 *
 * @author James Murty
 */

public class Permission {
    public static final Permission PERMISSION_FULL_CONTROL = new Permission("FULL_CONTROL");
    public static final Permission PERMISSION_READ = new Permission("READ");
    public static final Permission PERMISSION_WRITE = new Permission("WRITE");
    public static final Permission PERMISSION_READ_ACP = new Permission("READ_ACP");
    public static final Permission PERMISSION_WRITE_ACP = new Permission("WRITE_ACP");

    private String permissionString = "";

    private Permission(String permissionString) {
        this.permissionString = permissionString;
    }
}
/**
 * @param str
 * a string representation of a permission, eg &lt;tt&gt;FULL_CONTROL&lt;/tt&gt;
 * @return
 * the Permission object represented by the given permission string
 */
public static Permission parsePermission(String str) {
    Permission permission = null;
    if (str == null) {
        // Do nothing
    } else if (str.equals(PERMISSION_FULL_CONTROL.toString())) {
        permission = PERMISSION_FULL_CONTROL;
    } else if (str.equals(PERMISSION_READ.toString())) {
        permission = PERMISSION_READ;
    } else if (str.equals(PERMISSION_WRITE.toString())) {
        permission = PERMISSION_WRITE;
    } else if (str.equals(PERMISSION_READ_ACP.toString())) {
        permission = PERMISSION_READ_ACP;
    } else if (str.equals(PERMISSION_WRITE_ACP.toString())) {
        permission = PERMISSION_WRITE_ACP;
    } else {
        permission = null;
    }
    return permission;
}

/**
 * @return
 * the string representation of a permission object, eg &lt;tt&gt;FULL_CONTROL&lt;/tt&gt;
 */
public String toString() {
    return permissionString;
}
public int hashCode() {
    return permissionString.hashCode();
}
public boolean equals(Object obj) {
    return (obj instanceof Permission) && toString().equals(obj.toString());
}

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 */

package org.apache.hadoop.hbase.security.access;

import com.google.common.collect.Maps;
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.apache.hadoop.hbase.classification.InterfaceAudience;
import org.apache.hadoop.hbase.classification.InterfaceStability;
import org.apache.hadoop.hbase.util.Bytes;
import org.apache.hadoop.io.VersionedWritable;
import java.io.DataInput;
import java.io.DataOutput;
import java.io.IOException;
import java.util.Arrays;
import java.util.Map;

/**
 * Base permissions instance representing the ability to perform a given set
 * of actions.
 * *
 * @see TablePermission
 * */
@InterfaceAudience.Public
@InterfaceStability.Evolving
public class Permission extends VersionedWritable {
    protected static final byte VERSION = 0;

    @InterfaceAudience.Public
    @InterfaceStability.Evolving
    public enum Action {
        READ('R'), WRITE('W'), EXEC('X'), CREATE('C'), ADMIN('A');

        private byte code;
        Action(char code) {
            this.code = (byte)code;
        }

        public byte code() { return code; }
    }

    private static final Log LOG = LogFactory.getLog(Permission.class);
    protected static final Map<Byte,Action> ACTION_BY_CODE = Maps.newHashMap();
    protected Action[] actions;

    static {
        for (Action a : Action.values()) {
            ACTION_BY_CODE.put(a.code(), a);
        }
    }

    /** Empty constructor for Writable implementation. Do not use. */
    public Permission() {
        super();
    }

    public Permission(Action... assigned) {
        if (assigned != null && assigned.length > 0) {
            actions = Arrays.copyOf(assigned, assigned.length);
        }
    }
}
public Permission(byte[] actionCodes) {
    if (actionCodes != null) {
        Action acts[] = new Action[actionCodes.length];
        int j = 0;
        for (int i = 0; i < actionCodes.length; i++) {
            byte b = actionCodes[i];
            Action a = ACTION_BY_CODE.get(b);
            if (a == null) {
                LOG.error("Ignoring unknown action code "+
                        Bytes.toStringBinary(new byte[]{b})+"");
                continue;
            }
            acts[j++] = a;
        }
        this.actions = Arrays.copyOf(acts, j);
    }
}

public Action[] getActions() {
    return actions;
}

public boolean implies(Action action) {
    if (this.actions != null) {
        for (Action a : this.actions) {
            if (a == action) {
                return true;
            }
        }
    }
    return false;
}

@Override
public boolean equals(Object obj) {
    if (!(obj instanceof Permission)) {
        return false;
    }
    Permission other = (Permission) obj;
    // check actions
    if (actions == null && other.getActions() == null) {
        return true;
    } else if (actions != null && other.getActions() != null) {
        Action[] otherActions = other.getActions();
        if (actions.length != otherActions.length) {
            return false;
        }
    }
    return true;
}
return false;

outer:
for (Action a : actions) {
    for (Action oa : otherActions) {
        if (a == oa) continue outer;
    }
    return false;
}
return true;

return false;

@Override
public int hashCode() {
    final int prime = 37;
    int result = 23;
    for (Action a : actions) {
        result = prime * result + a.code();
    }
    return result;
}

@Override
public String toString() {
    StringBuilder str = new StringBuilder("[Permission:
        .append("actions=");
    if (actions != null) {
        for (int i=0; i<actions.length; i++) {
            if (i > 0)
                str.append(",");
            if (actions[i] != null)
                str.append(actions[i].toString());
            else
                str.append("NULL");
        }
    } str.append("]");
    return str.toString();
}

/** @return the object version number */
@Override
public byte getVersion() {

return VERSION;
}

@override
public void readFields(DataInput in) throws IOException {
    super.readFields(in);
    int length = (int)in.readByte();
    if (length > 0) {
        actions = new Action[length];
        for (int i = 0; i < length; i++) {
            byte b = in.readByte();
            Action a = ACTION_BY_CODE.get(b);
            if (a == null) {
                throw new IOException("Unknown action code "+
                        Bytes.toStringBinary(new byte[]{b})+" in input");
            }
            this.actions[i] = a;
        }
    } else {
        actions = new Action[0];
    }
}

@override
public void write(DataOutput out) throws IOException {
    super.write(out);
    out.writeByte(actions != null ? actions.length : 0);
    if (actions != null) {
        for (Action a: actions) {
            out.writeByte(a.code());
        }
    }
}

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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.util.List;

import java.util.List;
/**
 * 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.Evolving
public class AclStatus {
    private final String owner;
    private final String group;
    private final boolean stickyBit;
    private final List<AclEntry> entries;

    /**
     * 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;
}

@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.hash(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();

    /**
* 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.
* 
* @return Builder this builder, for call chaining
*/
* @param stickyBit
*     boolean sticky bit
* @return Builder this builder, for call chaining
*/
public Builder stickyBit(boolean stickyBit) {
    this.stickyBit = stickyBit;
    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);
}
}

/**
* 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
*/
private AclStatus(String owner, String group, boolean stickyBit,
                   Iterable<AclEntry> entries) {
    this.owner = owner;
    this.group = group;
    this.stickyBit = stickyBit;
    this.entries = Lists.newArrayList(entries);
}

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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;
        }
        acl.add(curEntry);
        hasAccessAcl = true;
    }

    // Fill in missing default entries if necessary.
    if (hasAccessAcl) {
        Iterator<AclEntry> iter = acl.iterator();
        int aclEntryCount = acl.size();
        int numLists = (aclEntryCount + 1) / 2;
        for (int i = 0; i < numLists; i++) {
            AclEntry defaultEntry = new AclEntry.Builder()
                .setScope(AclEntryScope.ACCESS)
                .setType(AclEntryType.USER)
                .setPermission(AclEntry.PermissionType.READ.getValue())
                .build();
            acl.add(defaultEntry);
        }
    }

    return acl;
}
// 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()
```java
.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;
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*)\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 java.util.Collections;
import java.util.List;

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

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

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

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

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

    public List<AclEntry> getDefaultEntries() {
        return defaultEntries;
    }

    private int calculatePivotOnDefaultEntries(List<AclEntry> aclEntries) {
        for (int i = 0; i < aclEntries.size(); i++) {
            AclEntry entry = aclEntries.get(i);
            if (entry.isDefault()) {
                return i;
            }
        }
        return PIVOT_NOT_FOUND;
    }
}

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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.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.Evolving
public class AclEntry {
    private final AclEntryType type;
    private final String name;
    private final FsAction permission;
    private final AclEntryScope scope;

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

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

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

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

@Override
public boolean equals(Object o) {
    if (o == null) {
        return false;
    }
    if (getClass() != o.getClass()) {
        return false;
    }
    AclEntry other = (AclEntry)o;
    return Objects.equal(type, other.type) &&
           Objects.equal(name, other.name) &&
           Objects.equal(permission, other.permission) &&
           Objects.equal(scope, other.scope);
}

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

@Override
public String toString() {
    StringBuilder sb = new StringBuilder();
    if (scope == AclEntryScope.DEFAULT) {
        sb.append("default:");
    }
    if (type != null) {
        sb.append(type.toString().toLowerCase());
    }
    sb.append(':');
    if (name != null) {
        sb.append("":";
    }
    return sb.toString();
}
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) {
        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;
    }
```java
/**
 * Sets the scope of the ACL entry. If this method is not called, then the
 * builder assumes [@link AclEntryScope#ACCESS].
 *
 * @param scope AclEntryScope scope of the ACL entry
 * @return Builder this builder, for call chaining
 */
public Builder setScope(AclEntryScope scope) {
    this.scope = scope;
    return this;
}

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

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

/**
 * Parses a string representation of an ACL spec into a list of AclEntry
 * objects. Example: "user::rwx,user:foo:rw-,group::r--,other::---"
 *
 * @param aclSpec
 *     String representation of an ACL spec.
 * @param includePermission
 *     for setAcl operations this will be true. i.e. AclSpec should
```
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.
 * @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 AclEntry object
 */
public static AclEntry parseAclEntry(String aclStr, boolean includePermission) {
    AclEntry.Builder builder = new AclEntry.Builder();
    // Here :: represent one empty string.
    // StringUtils.getStringCollection() will ignore this.
    String[] split = aclStr.split("::");
    if (split.length == 0) {
        throw new HadoopIllegalArgumentException("Invalid <aclSpec> : " + aclStr);
    }
    int index = 0;
    if ("default".equals(split[0])) {
        // default entry
        index++;
        builder.setScope(AclEntryScope.DEFAULT);
    }
if (split.length <= index) {
    throw new HadoopIllegalArgumentException("Invalid <aclSpec> : "+ aclStr);
}

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

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

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

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

/**
 * Convert a List of AclEntries into a string - the reverse of parseAclSpec.
 * @param aclSpec List of AclEntries to convert
/* @return String representation of aclSpec */
public static String aclSpecToString(List<AclEntry> aclSpec) {
    StringBuilder buf = new StringBuilder();
    for (AclEntry e : aclSpec) {
        buf.append(e.toString());
        buf.append(",");
    }
    return buf.substring(0, buf.length()-1);  // remove last ,
}

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*/
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*]+([0-7]{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]*))\s*");
final short umaskMode;

public UmaskParser(String modeStr) throws IllegalArgumentException {
    super(modeStr, umaskSymbolicPattern, chmodOctalPattern);
    umaskMode = (short)combineModes(0, false);
}

/**
 * To be used for file/directory creation only. Symbolic umask is applied
 * relative to file mode creation mask; the permission op characters ‘+’
 * results in clearing the corresponding bit in the mask, ‘-’ results in bits
 * for indicated permission to be set in the mask.
 * 
 * For octal umask, the specified bits are set in the file mode creation mask.
 * 
 * @return umask
 */
public short getUMask() {
    if (symbolic) {
        // Return the complement of octal equivalent of umask that was computed
        return (short) (~umaskMode & 0777);
    }
    return umaskMode;
}

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

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

import org.apache.hadoop.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.hadoop.classification.InterfaceStability;
/**
 * Specifies the type of an ACL entry.
 */
@InterfaceAudience.Public
@InterfaceStability.Evolving
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;
}
}
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*/
package org.apache.hadoop.fs.permission;
import java.io.DataInput;
import java.io.DataOutput;
import java.io.IOException;
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.fs.CommonConfigurationKeys;
import org.apache.hadoop.io.Writable;
import org.apache.hadoop.io.WritableFactories;
import org.apache.hadoop.io.WritableFactory;

/**
 * A class for file/directory permissions.
 */
@InterfaceAudience.Public
@InterfaceStability.Stable
public class FsPermission implements Writable {
    private static final Log LOG = LogFactory.getLog(FsPermission.class);
    static final WritableFactory FACTORY = new WritableFactory() {
        @Override
        public Writable newInstance() { return new FsPermission(); }
    };
    static {                                      // register a ctor
        WritableFactories.setFactory(FsPermission.class, FACTORY);
        WritableFactories.setFactory(ImmutableFsPermission.class, FACTORY);
    }

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

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

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

private FsPermission() {} 

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

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

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

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

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

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

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

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

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

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

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

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

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

return (short)s;
}

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

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

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

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

/**
 * Apply a umask to this permission and return a new one.
 *
 * The umask is used by create, mkdir, and other Hadoop filesystem operations.

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

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

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

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

    // To ensure backward compatibility first use the deprecated key.
    // If the deprecated key is not present then check for the new key
    if(conf != null) {
        String confUmask = conf.get(UMASK_LABEL);
        int oldUmask = conf.getInt(DEPRECATED_UMASK_LABEL, Integer.MIN_VALUE);
        try {
            if(confUmask != null) {

umask = new UmaskParser(confUmask).getUMask();
}
} catch(IllegalArgumentException iae) {
    // Provide more explanation for user-facing message
    String type = iae instanceof NumberFormatException ? "decimal"
        : "octal or symbolic";
    String error = "Unable to parse configuration " + UMASK_LABEL
        + " with value " + confUmask + " as " + type + " umask."
       ;
    LOG.warn(error);
    
    // If oldUmask is not set, then throw the exception
    if (oldUmask == Integer.MIN_VALUE) {
        throw new IllegalArgumentException(error);
    }
}

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

return new FsPermission((short)umask);
}

public boolean getStickyBit() {
    return stickyBit;
}

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

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

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

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

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

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

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

/**
 * Create a FsPermission from a Unix symbolic permission string
 * @param unixSymbolicPermission e.g. "-rw-rw-rw-"
 */
public static FsPermission valueOf(String unixSymbolicPermission) {
    if (unixSymbolicPermission == null) {
        return null;
    }
    else if (unixSymbolicPermission.length() != MAX_PERMISSION_LENGTH) {
        throw new IllegalArgumentException(String.format(
            "length != %d(unixSymbolicPermission=%s)\n            , 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 FsPermission applyUMask(FsPermission umask) {
        throw new UnsupportedOperationException();
    }
    @Override
    public void readFields(DataInput in) throws IOException {
        throw new UnsupportedOperationException();
    }
}

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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 {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();
            }
        };
    }
}

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/*
package org.apache.hadoop.fs.permission;
*/
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();
    return p;
}
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;
}

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 org.apache.hadoop.security.AccessControlException
*/

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   * limitations under the License.
   */

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 org.apache.hadoop.security.AccessControlException
*/
@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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 *
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.
 */
@interfaceParser.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
     * @param octal Use-case specific octal 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()) 
            applyNormalPattern(modeStr, matcher);

        // More code could be added here...
    }
}
applyOctalPattern(modeStr, matcher);
} else {
    throw new IllegalArgumentException(modeStr);
}

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

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

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

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

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

        for (char c : matcher.group(1).toCharArray()) {
            switch (c) {
                case 'u':
                    user = true;
                    break;
                case 'g':
                    group = true;
                    break;
                case 'o':
                    others = true;
                    break;
                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;
}
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.Evolving
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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1.77 cglib 2.2.2

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</head>

<body>

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<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="/"&gt;Home</a>&nbsp;&raquo&nbsp;<a href="/licenses/">Licenses</a></div>
<ul class="nav navbar-nav navbar-right">
<li class="dropdown">
<a href="#" class="dropdown-toggle" data-toggle="dropdown">About <span class="caret"></span></a>
<ul class="dropdown-menu" role="menu">
<li><a href="/foundation/">Overview</a></li>
<li><a href="/foundation/members.html/">Members</a></li>
<li><a href="/foundation/how-it-works.html/">Process</a></li>
</ul>
</li>
</ul>
</div>
</div>
</nav>
</header>

</body>
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</ul>
</div>

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<h5 class="white">Innovation</h5>
<ul class="list-unstyled white" role="menu">
<li><a href="http://incubator.apache.org/">Incubator</a></li>
<li><a href="http://labs.apache.org/">Labs</a></li>
<li><a href="/licenses/">Licensing</a></li>
<li><a href="/foundation/license-faq.html">Licensing FAQ</a></li>
<li><a href="/foundation/marks/">Trademark Policy</a></li>
<li><a href="/foundation/contact.html">Contacts</a></li>
</ul>
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<div class="col-sm-2">
<h5 class="white">Tech Operations</h5>
<ul class="list-unstyled white" role="menu">
<li><a href="/dev/">Developer Information</a></li>
<li><a href="/dev/infrastructure.html">Infrastructure</a></li>
<li><a href="/security/">Security</a></li>
<li><a href="http://status.apache.org">Status</a></li>
<li><a href="/foundation/contact.html">Contacts</a></li>
</ul>
</div>

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

<div class="col-sm-2">
<h5 class="white">Legal</h5>
<ul class="list-unstyled white" role="menu">
<li><a href="/legal/">Legal Affairs</a></li>
<li><a href="/licenses/">Licenses</a></li>
<li><a href="/foundation/marks/">Trademark Policy</a></li>
<li><a href="/foundation/records/">Public Records</a></li>
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<span class="icon-bar"></span>
<span class="icon-bar"></span>
</button>
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<li><a href="/foundation/members.html/">Members</a></li>
</ul>
</li>
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<li><a href="/foundation/sponsorship.html/">Sponsorship</a></li>
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</div>
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</head>

<body>

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<header>
<nav class="navbar navbar-default navbar-fixed-top">
<div class="container">
<div class="navbar-header">
<button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">
<span class="sr-only">Toggle navigation</span>
<span class="icon-bar"></span>
<span class="icon-bar"></span>
<span class="icon-bar"></span>
</button>
<a href="/" class="navbar-brand"><span class="glyphicon glyphicon-home"></span></a>
</div>
<div class="collapse navbar-collapse" id="mainnav-collapse">
<div style="line-height:20px; padding-top:5px; float:left"><a href="/">Home</a>&nbsp;&raquo&nbsp;<a href="/licenses/">Licenses</a></div>
<ul class="nav navbar-nav navbar-right">
<li class="dropdown">
<a href="/foundation/" class="dropdown-toggle" data-toggle="dropdown">About <span class="caret"></span></a>
<ul class="dropdown-menu" role="menu">
<li><a href="/foundation/overview/">Overview</a></li>
<li><a href="/foundation/members.html">Members</a></li>
<li><a href="/foundation/how-it-works.html">Process</a></li>
<li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
<li><a href="/foundation/glossary.html">Glossary</a></li>
<li><a href="/foundation/preFAQ.html">FAQ</a></li>
<li><a href="/foundation/contact.html">Contact</a></li>
</ul>
</li>
<li><a href="/index.html#projects-list">Projects</a></li>
<li class="dropdown">
<a href="/people/" class="dropdown-toggle" data-toggle="dropdown">People <span class="caret"></span></a>
<ul class="dropdown-menu" role="menu">
<li><a href="/people/">People</a></li>
</ul>
</li>
</ul>
</div>
</nav>
</header>

</body>
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    gcse.async = true;
    var s = document.getElementsByTagName('script')[0];
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Teradata

AWS Application Discovery Service

AWS Server Migration Service
Service\textsuperscript{span}\textgreater Migrate On-premises servers to AWS\textless /span\textgreater \\ <div class="aws-link">\textless a href="https://aws.amazon.com/snowball/?nc2=h_l3_sc"\textgreater AWS Snowball\textless /a\textgreater Petabyte-scale Data Transport\textless /span\textgreater \\ </div> \\ <div class="aws-link">\textless a href="https://aws.amazon.com/snowball-edge/?nc2=h_l3_sc"\textgreater AWS Snowball Edge\textless /a\textgreater Petabyte-scale Data Transport with On-board Compute\textless /span\textgreater \\ </div> \\ <div class="aws-link">\textless a href="https://aws.amazon.com/snowmobile/?nc2=h_l3_sc"\textgreater AWS Snowmobile\textless /a\textgreater Exabyte-scale Data Transport\textless /span\textgreater \\ </div> \\ <div id="aws-flyout-3-networking" class="aws-flyout-content" data-da="ignore-standard-impression"> \\ <div class="aws-flyout-inner"> \\ <h6>\textless a href="https://aws.amazon.com/products/networking/?nc2=h_l3_db"\textgreater Networking & Content Delivery\textless /a\textgreater </h6> \\ <div class="aws-link">\textless a href="https://aws.amazon.com/vpc/?nc2=h_l3_n"\textgreater Amazon VPC\textless /a\textgreater Isolated Cloud Resources </div> \\ </div> \\ <div class="aws-link">\textless a href="https://aws.amazon.com/cloudfront/?nc2=h_l3_sc"\textgreater Amazon CloudFront\textless /a\textgreater Global Content Delivery Network\textless /span\textgreater \\ </div> \\ <div class="aws-link">\textless a href="https://aws.amazon.com/route53/?nc2=h_l3_c"\textgreater Amazon Route 53\textless /a\textgreater Scalable Domain Name System (DNS)\textless /span\textgreater \\ </div> \\ <div class="aws-link">\textless a href="https://aws.amazon.com/directconnect/?nc2=h_l3_n"\textgreater AWS Direct Connect\textless /a\textgreater Dedicated Network Connection to AWS </div> \\ </div> \\ <div class="aws-link aws-flyout-section-header">\textless a class="aws-has-icon" href="https://aws.amazon.com/marketplace/ref=mkt_ste_l2_StorageCDN?nc2=h_l3_scd"\textgreater AWS MARKETPLACE</i class="icon-double-angle-right">\textless /i\textgreater \\ </div> \\ <div class="aws-link">\textless a class="aws-has-icon" href="https://aws.amazon.com/marketplace/pp/B00EV8VXG2/ref=mkt_ste_l2_s3cdn_f1?nc2=h_l3_n"\textgreater Cisco
Cloud Services Router
Brocade
F5 BIG-IP
View More Networking Solutions
Developer Tools
AWS CodeCommit
AWS CodeBuild
AWS CodeDeploy
AWS CodePipeline
AWS X-Ray
AWS Command Line Interface
Unified Tool to Manage AWS Services

Open Source Used In Kinetic for Cities 4.0.0.0
AWS MARKETPLACE

<a href="https://aws.amazon.com/marketplace/ref=mkt_ste_l2_Deployment?nc2=h_l3_dm">AWS MARKETPLACE</a>

Zend Server

Coldfusion

Chef Server

View More Developer Tools

Management Tools

Amazon CloudWatch

Amazon EC2 Systems Manager

AWS CloudFormation

AWS CloudTrail

AWS Config
Changes</div> </a> 
</div> 
<div class="aws-link"  
<a href="https://aws.amazon.com/opsworks/?nc2=h_l3_dm">AWS OpsWorks</a> Automate Operations with Chef</div> </a> 
</div> 
<div class="aws-link"  
<a href="https://aws.amazon.com/servicecatalog/?nc2=h_l3_dm">AWS Service Catalog</a> Create and Use Standardized Products</div> </a> 
</div> 
<div class="aws-link"  
<a href="https://aws.amazon.com/premiumsupport/trustedadvisor/?nc2=h_l3_dm">AWS Trusted Advisor</a> Optimize Performance and Security</div> </a> 
</div> 
<div class="aws-link"  
<a href="https://aws.amazon.com/premiumsupport/phd/?nc2=h_l3_mt">AWS Personal Health Dashboard</a> Personalized view of AWS service health</div> </a> 
</div> 
<div class="aws-link"  
<a href="https://aws.amazon.com/cli/?nc2=h_l3_dm">AWS Command Line Interface</a> Unified Tool to Manage AWS Services</div> </a> 
</div> 
<div class="aws-link"  
<a href="https://aws.amazon.com/console/?nc2=h_l3_dm">AWS Management Console</a> Web-based User Interface</div> </a> 
</div> 
<div class="aws-link"  
<a href="https://aws.amazon.com/managed-services/?nc2=h_l3_dm">AWS Managed Services</a> Infrastructure Operations Management for AWS</div> </a> 
</div> 
<div class="aws-link aws-nav-flyout-section-header"  
<a class="aws-has-icon" href="https://aws.amazon.com/marketplace/?nc2=h_l3_dm">AWS MARKETPLACE</a> 
<i class="icon-double-angle-right"></i> 
</div> 
<div class="aws-link"  
<a class="aws-has-icon" href="https://aws.amazon.com/marketplace/ref=mkt_ste_l2_Deployment?nc2=h_l3_dm">Warewolf for Developers</a><i class="icon-external-link"></i> 
</div> 
<div class="aws-link"  
<a class="aws-has-icon" href="https://aws.amazon.com/marketplace/pp/B01N24GCFA/&ref=_mkt_ste_menu?nc2=h_l3_dm">Kurian</a><i class="icon-external-link"></i> 
</div> 
<div class="aws-link"  
<a class="aws-has-icon" href="https://aws.amazon.com/marketplace/pp/B01876K7BU/&ref=_mkt_ste_menu?nc2=h_l3_dm">Kumolus</a><i class="icon-external-link"></i>
class="icon-external-link"></i></a> View All Related Solutions</div>
</div>
</div>
</div>
</div>

<div id="aws-nav-flyout-3-security-identity" class="aws-nav-flyout-content" data-da="ignore-standard-impression">
  
  <div class="aws-nav-flyout-inner">
    <h6> <a href="https://aws.amazon.com/products/security/?nc2=h_l3_db">Security, Identity & Compliance<i class="icon-double-angle-right"></i></a> </h6>
    <div class="aws-link">
      <a href="https://aws.amazon.com/iam/?nc2=h_l3_dm">AWS Identity and Access Management (IAM)</a> Manage User Access and Encryption Keys</div>
    <div class="aws-link">
      <a href="https://aws.amazon.com/inspector/?nc2=h_l3_dm">Amazon Inspector</a> Analyze Application Security</div>
    <div class="aws-link">
      <a href="https://aws.amazon.com/certificate-manager/?nc2=h_l3_dm">AWS Certificate Manager</a> Provision, Manage, and Deploy SSL/TLS Certificates</div>
    <div class="aws-link">
      <a href="https://aws.amazon.com/cloudhsm/?nc2=h_l3_dm">AWS CloudHSM</a> Hardware-based Key Storage for Regulatory Compliance</div>
    <div class="aws-link">
      <a href="https://aws.amazon.com/directoryservice/?nc2=h_l3_dm">AWS Directory Service</a> Host and Manage Active Directory</div>
    <div class="aws-link">
      <a href="https://aws.amazon.com/cloud-directory/?nc2=h_l3_dm">Amazon Cloud Directory</a> Create Flexible Cloud-Native Directories</div>
    <div class="aws-link">
      <a href="https://aws.amazon.com/kms/?nc2=h_l3_dm">AWS Key Management Service</a> Managed Creation and Control of Encryption Keys</div>
    <div class="aws-link">
      <a href="https://aws.amazon.com/organizations/?nc2=h_l3_dm">AWS Organizations</a> Policy-based management for multiple AWS accounts</div>
    <div class="aws-link">
      <a href="https://aws.amazon.com/shield/?nc2=h_l3_dm">AWS Shield</a> DDoS Protection</div>
  </div>
</div>
Open Source Used In Kinetic for Cities 4.0.0.0

- Amazon Elasticsearch Service: Run and Scale Elasticsearch Clusters
- Amazon Kinesis: Work with Real-time Streaming Data
- Amazon Redshift: Fast, Simple, Cost-effective Data Warehousing
- Amazon QuickSight: Fast Business Analytics Service
- AWS Data Pipeline: Orchestration Service for Periodic, Data-Driven Workflows
- AWS Glue: Prepare and Load Data

AWS MARKETPLACE
- TIBCO Jaspersoft Reporting and Analytics for AWS (Hourly)
- Attunity CloudBeam for Amazon Redshift
- Matillion ETL for Redshift
- View More BI Solutions
Open Source Used In Kinetic for Cities 4.0.0.0

AWS Mobile SDK &lt;span&gt;Build High Quality Mobile Apps Quickly and Easily&lt;/span&gt; &lt;/a&gt;

AWS MARKETPLACE &lt;i&gt;&lt;/i&gt;&lt;/a&gt;

Bitfusion Mobile deep learning &lt;i&gt;&lt;/i&gt;&lt;/a&gt;

Kony MobileFabric &lt;i&gt;&lt;/i&gt;&lt;/a&gt;

HPE Mobile center &lt;i&gt;&lt;/i&gt;&lt;/a&gt;

AWS Mobile Hub &lt;span&gt;Build, Test, and Monitor Mobile Apps&lt;/span&gt; &lt;/a&gt;

Amazon API Gateway &lt;span&gt;Build, Deploy, and Manage APIs&lt;/span&gt; &lt;/a&gt;

Amazon Cognito &lt;span&gt;User Identity and App Data Synchronization&lt;/span&gt; &lt;/a&gt;

Amazon Pinpoint &lt;span&gt;Push Notifications for
Mobile Apps</span>  </a>
  </div>
  <div class="aws-link">
    <a href="https://aws.amazon.com/device-farm/?nc2=h_l3_ms">AWS Device Farm</a>Test Android, iOS, and Web Apps on Real Devices in the AWS Cloud</div>
</div>

Mobile Apps Quickly and Easily</span>  </a>
  </div>
  <div class="aws-link">
    <a href="https://aws.amazon.com/mobile/sdk/?nc2=h_l3_ms">AWS Mobile SDK</a>Build High Quality Mobile Apps</div>
</div>

<h6>
  <a href="https://aws.amazon.com/products/?nc2=h_l3_db#Accelerate_your_Cloud_Success_with_Rich_Platform_Services">Application Services</a>
</h6>

<h6>
  <a href="https://aws.amazon.com/step-functions/?nc2=h_l3_as">AWS Step Functions</a>Coordinate Distributed Applications</div>

<h6>
  <a href="https://aws.amazon.com/api-gateway/?nc2=h_l3_as">Amazon API Gateway</a>Build, Publish and Manage APIs</div>

<h6>
  <a href="https://aws.amazon.com/elastictranscoder/?nc2=h_l3_as">Amazon Elastic Transcoder</a>Easy-to-use Scalable Media Transcoding</div>

<h6>
  <a href="https://aws.amazon.com/appstream/">Amazon AppStream</a>Low-latency Application Streaming</div>

AWS MARKETPLACE</div>

Adobe ColdFusion 11</div>

Nginx</div>
Amazon Chime

Frustration-free meetings, video calls, and chat

Amazon WorkSpaces

Virtual Desktops in the Cloud

Amazon AppStream 2.0

Stream desktop applications securely to a browser

AWS Greengrass

Local Compute, Messaging, and Sync for Devices

AWS IoT Button

Cloud Programmable Dash Button

AWS MARKETPLACE

Sirqule IoT Platform

OpenDOF IoT Router
Log Analysis</div>

<a href="https://aws.amazon.com/marketplace/search/results/ref=mkt_ste_l2_mp_source_ctrl/?page=1&category=2649282011&nc2=h_l3_mp">Source Control</a>

<a href="https://aws.amazon.com/marketplace/search/results/ref=mkt_ste_l2_mp_testing/?page=1&category=2649283011&nc2=h_l3_mp">Testing</a>

<div id="aws-flyout-3-resource-center" class="aws-flyout-content" data-da="ignore-standard-impression">
<h6>Resource Center</h6>
<div class="aws-link">
<a href="https://aws.amazon.com/economics/?nc2=h_l2_tr">Economics Center</a>
<span>Find calculators and other tools to help you lower costs with the AWS Cloud. </span></div>
<div class="aws-link">
<a href="https://aws.amazon.com/security/?nc2=h_l2_tr">Security Center</a>
<span>Learn about AWS Cloud security and how to build secure applications. </span></div>
<div class="aws-link">
<a href="https://aws.amazon.com/compliance/?nc2=h_l2_tr">Compliance Center</a>
<span>Learn about the compliance programs on the AWS Cloud and establishing controls</span></div>
<div class="aws-link">
<a href="https://aws.amazon.com/architecture/?nc2=h_l2_tr">Architecture Center</a>
<span>Learn how to build scalable and reliable applications in the AWS Cloud. </span></div>
<div class="aws-link">
<a href="https://aws.amazon.com/premiumsupport/knowledge-center/?nc2=h_l2_tr">Knowledge Center</a>
<span>Get answers to frequently asked technical support questions.</span></div>
<div class="aws-link">
<a href="https://aws.amazon.com/answers/?nc2=h_l2_tr">AWS Answers</a>
<span>Get clear guidance from AWS architects and engineers on common user questions.</span></div>
</div>
<div class="aws-nav-flyout-inner">
<h6>Compute</h6>
<div class="aws-link">
<a href="https://aws.amazon.com/documentation/ec2/?icmpid=docs_menu">Amazon EC2</a>
</div>
<div class="aws-link">
<a href="https://aws.amazon.com/documentation/ecr/?icmpid=docs_menu">Amazon ECR</a>
</div>
<div class="aws-link">
<a href="https://aws.amazon.com/documentation/ecs/?icmpid=docs_menu">Amazon ECS</a>
</div>
<div class="aws-link">
<a href="https://aws.amazon.com/documentation/lightsail/?icmpid=docs_menu">Amazon Lightsail</a>
</div>
<div class="aws-link">
<a href="https://aws.amazon.com/documentation/vpc/?icmpid=docs_menu">Amazon VPC</a>
</div>
<div class="aws-link">
<a href="https://aws.amazon.com/documentation/elastic-beanstalk/?icmpid=docs_menu">AWS Elastic Beanstalk</a>
</div>
<div class="aws-link">
<a href="https://aws.amazon.com/documentation/lambda/?icmpid=docs_menu">AWS Lambda</a>
</div>
<div class="aws-link">
<a href="https://aws.amazon.com/documentation/autoscaling/?icmpid=docs_menu">Auto Scaling</a>
</div>
<div class="aws-link">
<a href="https://aws.amazon.com/documentation/elasticloadbalancing/?icmpid=docs_menu">Elastic Load Balancing</a>
</div>
</div>
</div>

<div id="aws-nav-flyout-3-doc-storage" class="aws-nav-flyout-content" data-da="ignore-standard-impression">
<h6>Storage</h6>
<div class="aws-link">
<a href="https://aws.amazon.com/documentation/s3/?icmpid=docs_menu">Amazon S3</a>
</div>
<div class="aws-link">
</div>
<div class="aws-link">
<a href="https://aws.amazon.com/documentation/efs/? icmpid=docs_menu">Amazon EFS</a>
</div>
</div>
Open Source Used In Kinetic for Cities 4.0.0.0

- Amazon Glacier
- AWS Snowball
- AWS Storage Gateway

Database
- Amazon RDS
- Amazon DynamoDB
- Amazon ElastiCache
- Amazon Redshift

Networking & Content Delivery
- Amazon VPC
- Amazon CloudFront
- AWS Direct Connect
- Elastic Load Balancing
<div class="aws-link">
<a href="https://aws.amazon.com/documentation/route53/?icmpid=docs_menu">Amazon Route 53</a>
</div>
</div>
</div>
<div id="aws-nav-flyout-3-doc-migration" class="aws-nav-flyout-content" data-da="ignore-standard-impression">
<div class="aws-nav-flyout-inner">
<h6>Migration</h6>
<div class="aws-link">
<a href="https://aws.amazon.com/documentation/dms/?icmpid=docs_menu">AWS Database Migration Service</a>
</div>
<div class="aws-link">
<a href="https://aws.amazon.com/documentation/server-migration-service/?icmpid=docs_menu">AWS Server Migration Service</a>
</div>
<div class="aws-link">
</div>
<div class="aws-link">
<a href="https://aws.amazon.com/documentation/importexport/?icmpid=docs_menu">AWS Import/Export</a>
</div>
<div class="aws-link">
<a href="https://aws.amazon.com/documentation/application-discovery/?icmpid=docs_menu">AWS Application Discovery Service</a>
</div>
</div>
</div>
<div id="aws-nav-flyout-3-doc-developer" class="aws-nav-flyout-content" data-da="ignore-standard-impression">
<div class="aws-nav-flyout-inner">
<h6>Developer Tools</h6>
<div class="aws-link">
<a href="https://aws.amazon.com/documentation/codecommit/?icmpid=docs_menu">AWS CodeCommit</a>
</div>
<div class="aws-link">
<a href="https://aws.amazon.com/documentation/codebuild/?icmpid=docs_menu">AWS CodeBuild</a>
</div>
<div class="aws-link">
<a href="https://aws.amazon.com/documentation/codedeploy/?icmpid=docs_menu">AWS CodeDeploy</a>
</div>
<div class="aws-link">
<a href="https://aws.amazon.com/documentation/codepipeline/?icmpid=docs_menu">AWS CodePipeline</a>
</div>
</div>
</div>
<div class="aws-link">
<a href="https://aws.amazon.com/documentation/xray/?icmpid=docs_menu">AWS X-Ray</a></div>

<div class="aws-link">
<a href="https://aws.amazon.com/tools/?icmpid=docs_menu">AWS Tools & SDKs</a></div>

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<div id="aws-flyout-3-doc-managementtools" class="aws-flyout-content" data-da="ignore-standard-impression">
<div class="aws-flyout-inner">
<h6>Management Tools</h6>
<div class="aws-link">
<a href="https://aws.amazon.com/documentation/cloudwatch/?icmpid=docs_menu">Amazon CloudWatch</a>
</div>
<div class="aws-link">
<a href="https://aws.amazon.com/documentation/cloudformation/?icmpid=docs_menu">AWS CloudFormation</a>
</div>
<div class="aws-link">
<a href="https://aws.amazon.com/documentation/cloudtrail/?icmpid=docs_menu">AWS CloudTrail</a>
</div>
<div class="aws-link">
<a href="https://aws.amazon.com/documentation/config/?icmpid=docs_menu">AWS Config</a>
</div>
<div class="aws-link">
<a href="https://aws.amazon.com/documentation/opsworks/?icmpid=docs_menu">AWS OpsWorks</a>
</div>
<div class="aws-link">
<a href="https://aws.amazon.com/documentation/servicecatalog/?icmpid=docs_menu">AWS Service Catalog</a>
</div>
<div class="aws-link">
<a href="https://aws.amazon.com/documentation/aws-support/?icmpid=docs_menu">AWS Trusted Advisor</a>
</div>
<div class="aws-link">
<a href="https://aws.amazon.com/documentation/health/?nc2=h_l3_mt">AWS Health</a>
</div>
<div class="aws-link">
<a href="http://docs.aws.amazon.com/awsconsolehelpdocs/latest/gsg/getting-started.html">AWS Management Console</a>
</div>
<div class="aws-link">
<a href="https://aws.amazon.com/documentation/cli/?icmpid=docs_menu">AWS Command Line Interface</a>
</div>
</div>
</div>
Open Source Used In Kinetic for Cities 4.0.0.0

Amazon EMR

Amazon CloudSearch

Amazon Elasticsearch Service

Amazon Kinesis

Amazon Redshift

Amazon QuickSight

AWS Data Pipeline

Amazon Lex

Amazon Polly

Amazon Rekognition

Amazon Machine Learning

Amazon Internet of Things
JavaScript<br/>
</div>
</div>
</div>

<div class="aws-link">
<a href="https://aws.amazon.com/documentation/sdk-for-net/?icmpid=docs_menu">AWS SDK for .NET</a></div>
</div>
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<div class="aws-link">
<a href="https://aws.amazon.com/documentation/sdk-for-php/?icmpid=docs_menu">AWS SDK for PHP</a></div>
</div>
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<div class="aws-link">
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</div>
</div>

<div class="aws-link">
<a href="https://aws.amazon.com/documentation/sdk-for-ruby/?icmpid=docs_menu">AWS SDK for Ruby</a></div>
</div>
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<div class="aws-link">
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<div class="aws-link">
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</div>
</div>

<div id="aws-nav-flyout-3-doc-add-software" class="aws-nav-flyout-content" data-da="ignore-standard-impression">
<div class="aws-nav-flyout-inner">
<h6>Additional Software & Services</h6>
<div class="aws-link">
</div>
</div>

<div class="aws-link">
<a href="https://aws.amazon.com/documentation/marketplace/?icmpid=docs_menu">AWS Marketplace</a></div>
</div>
</div>
</div>

<div class="aws-link">
<a href="https://aws.amazon.com/documentation/aws-support/?icmpid=docs_menu">AWS Support</a></div>
</div>
</div>
</div>

<div class="aws-link">
<a href="https://aws.amazon.com/documentation/alexa-top-sites/?icmpid=docs_menu">Alexa Top Sites</a></div>
</div>
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</div>

<div class="aws-link">
</div>
</div>
</div>

<div class="aws-link">
<a href="https://aws.amazon.com/documentation/silk/?icmpid=docs_menu">Amazon Silk</a></div>
</div>
AWS GovCloud (US)
Amazon Elastic File System (EFS)
Amazon Glacier
AWS Storage Gateway
AWS Snowball
AWS Snowball Edge
AWS Snowmobile
Open Source Used In Kinetic for Cities 4.0.0.0

Elastic Load Balancing

AWS CodeCommit

AWS CodeBuild

AWS CodeDeploy

AWS CodePipeline

AWS X-Ray

AWS Command Line Interface

Amazon CloudWatch

Amazon EC2 Systems Manager

AWS CloudFormation

AWS CloudTrail

AWS Config

AWS OpsWorks

AWS Service Catalog

AWS Trusted Advisor

AWS Personal Health Dashboard

AWS Command Line Interface

AWS Management Console

AWS Managed Services

Security, Identity & Compliance

Security, Identity & Compliance
AWS Identity and Access Management (IAM)

Amazon Inspector

AWS Certificate Manager

AWS CloudHSM

AWS Directory Service

Amazon Cloud Directory

AWS Key Management Service

AWS Organizations

AWS Shield

AWS WAF

AWS Artifact

Amazon Athena

Amazon EMR

Amazon CloudSearch

Amazon Elasticsearch Service

Amazon Kinesis

Amazon Redshift

Amazon QuickSight

AWS Data Pipeline

AWS Glue

Amazon Lex

Amazon Polly

Amazon Rekognition

Amazon Machine Learning

Amazon Machine Learning
<li><a href="https://aws.amazon.com/mobilehub/?nc2=h_m1">AWS Mobile Hub</a></li>
<li><a href="https://aws.amazon.com/api-gateway/?nc2=h_m1">Amazon API Gateway</a></li>
<li><a href="https://aws.amazon.com/cognito/?nc2=h_m1">Amazon Cognito</a></li>
<li><a href="https://aws.amazon.com/pinpoint/?nc2=h_m1">Amazon Pinpoint</a></li>
<li><a href="https://aws.amazon.com/device-farm/?nc2=h_m1">AWS Device Farm</a></li>
<li><a href="https://aws.amazon.com/mobile/sdk/?nc2=h_m1">AWS Mobile SDK</a></li>

</ul>
</div>

</div>

</div>

</div>

</div>

</div>

<div class="aws-col aws-tiny-6">
  <div class="aws-nav-mm-section">
    <div class="aws-nav-mm-section-header">
      <a role="menuitem" aria-label="Application Services" href="/products/?nc2=h_l3_db#Accelerate_your_Cloud_Success_with_Rich_Platform_Services"> Application Services</a>
    </div>
    <ul>
      <li><a href="https://aws.amazon.com/step-functions/?nc2=h_m1">AWS Step Functions</a></li>
      <li><a href="https://aws.amazon.com/api-gateway/?nc2=h_m1">Amazon API Gateway</a></li>
      <li><a href="https://aws.amazon.com/elastictranscoder/?nc2=h_m1">Amazon Elastic Transcoder</a></li>
      <li><a href="https://aws.amazon.com/appstream/?nc2=h_m1">Amazon AppStream</a></li>
    </ul>
  </div>
  <div class="aws-nav-mm-section">
    <div class="aws-nav-mm-section-header">
      <a role="menuitem" aria-label="Messaging" href="/products/?nc2=h_l3_ms"> Messaging</a>
    </div>
    <ul>
      <li><a href="https://aws.amazon.com/sqs/?nc2=h_m1">Amazon SQS</a></li>
      <li><a href="https://aws.amazon.com/pinpoint/?nc2=h_m1">Amazon Pinpoint</a></li>
      <li><a href="https://aws.amazon.com/ses/?nc2=h_m1">Amazon SES</a></li>
      <li><a href="https://aws.amazon.com/sns/?nc2=h_m1">Amazon SNS</a></li>
    </ul>
  </div>
  <div class="aws-nav-mm-section">
    <div class="aws-nav-mm-section-header">
      <a role="menuitem" aria-label="Business Productivity" href="/products/?nc2=h_l3_bu"> Business Productivity</a>
    </div>
    <ul>
      <li><a href="https://chime.aws">Amazon Chime</a></li>
      <li><a href="https://aws.amazon.com/workdocs/?nc2=h_m1">Amazon WorkDocs</a></li>
      <li><a href="https://aws.amazon.com/workmail/?nc2=h_m1">Amazon WorkMail</a></li>
    </ul>
  </div>
  <div class="aws-nav-mm-section">
    <div class="aws-nav-mm-section-header">
      <a role="menuitem" aria-label="Desktop & App Streaming" href="/products/?nc2=h_l3_ds"> Desktop & App Streaming</a>
    </div>
    <ul>
      <li><a href="https://aws.amazon.com/device-farm/?nc2=h_m1">AWS Device Farm</a></li>
      <li><a href="https://aws.amazon.com/mobile/sdk/?nc2=h_m1">AWS Mobile SDK</a></li>
    </ul>
  </div>
</div>
Desktop & App Streaming

Amazon WorkSpaces
Amazon AppStream 2.0

Software
AWS Marketplace

Internet of Things
AWS IoT Platform
AWS Greengrass
AWS IoT Button

Game Development
Amazon GameLift
Amazon Lumberyard
Open Source Used In Kinetic for Cities 4.0.0.0

Databases
- Amazon Aurora
- Amazon RDS
- Amazon DynamoDB
- Amazon ElastiCache
- Amazon Redshift
- AWS Database Migration Service
- AWS Marketplace

Migration
- AWS Application Discovery Service
- AWS Database Migration Service
- AWS Server Migration Service
- AWS Snowball
- AWS Snowball Edge
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<a href="https://aws.amazon.com/codepipeline/?nc2=h_mo">AWS CodePipeline</a>

<a href="https://aws.amazon.com/xray/?nc2=h_mo">AWS X-Ray</a>

<a href="https://aws.amazon.com/cli/?nc2=h_mo">AWS Command Line Interface</a>

<a href="https://aws.amazon.com/marketplace/?nc2=h_mo">AWS Marketplace</a>

<a href="javascript:void(0)">Management Tools</a>

<a href="https://aws.amazon.com/cloudwatch/?nc2=h_mo">Amazon CloudWatch</a>

<a href="https://aws.amazon.com/ec2/systems-manager/?nc2=h_mo">Amazon EC2 Systems Manager</a>

<a href="https://aws.amazon.com/cloudformation/?nc2=h_mo">AWS CloudFormation</a>

<a href="https://aws.amazon.com/cloudtrail/?nc2=h_mo">AWS CloudTrail</a>

<a href="https://aws.amazon.com/config/?nc2=h_mo">AWS Config</a>

<a href="https://aws.amazon.com/opsworks/?nc2=h_mo">AWS OpsWorks</a>

<a href="https://aws.amazon.com/servicecatalog/?nc2=h_mo">AWS Service Catalog</a>

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<a href="https://aws.amazon.com/premiumsupport/phd/?nc2=h_mo">AWS Personal Health Dashboard</a>

<a href="https://aws.amazon.com/cli/?nc2=h_mo">AWS Command Line Interface</a>
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<div class="aws-link">Amazon Rekognition</div>
<div class="aws-link">Amazon Machine Learning</div>
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<div class="aws-link">Amazon API Gateway</div>
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<div class="aws-link">AWS Mobile SDK</div>
<div class="aws-link">AWS Step Functions</div>
<div class="aws-link">Amazon API Gateway</div>
<div class="aws-link">Amazon Elastic Transcoder</div>
<a href="https://aws.amazon.com/appstream/?nc2=h_mo">Amazon AppStream</a>
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<a href="https://aws.amazon.com/marketplace/search/ref=mkt_ste_l2_app_svcs?page=2&searchTerms=Application+services&nc2=h_mo">AWS Marketplace</a>

<a href="javascript:void(0)">Messaging</a>

<a href="https://aws.amazon.com/sqs/?nc2=h_mo">Amazon SQS</a>

<a href="https://aws.amazon.com/pinpoint/?nc2=h_mo">Amazon Pinpoint</a>

<a href="https://aws.amazon.com/ses/?nc2=h_mo">Amazon SES</a>

<a href="https://aws.amazon.com/sns/?nc2=h_13_as">Amazon SNS</a>

<a href="https://aws.amazon.com/marketplace/search/ref=mkt_ste_l2_app_svcs?page=2&searchTerms=Application+services&nc2=h_mo">AWS Marketplace</a>

<a href="javascript:void(0)">Business Productivity</a>

<a href="https://aws.amazon.com/workdocs/?nc2=h_mo">Amazon WorkDocs</a>

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Amazon Lumberyard
Infrastructure Software (1300+)
Business Software (845+)
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Amazon EC2

Amazon ECR

Amazon ECS

Amazon Lightsail

Amazon VPC

AWS Elastic Beanstalk

AWS Lambda

Auto Scaling

Elastic Load Balancing

Amazon S3

Amazon EBS

Amazon EFS

Amazon Glacier
Open Source Used In Kinetic for Cities 4.0.0.0

AWS Mobile SDK for Xamarin

Amazon SNS

Amazon API Gateway

Amazon Elastic Transcoder

Amazon SWF

AWS Step Functions

Amazon SNS

Amazon SES

Amazon SQS
Open Source Used In Kinetic for Cities 4.0.0.0

AWS SDK for PHP

AWS SDK for Python (boto)

AWS SDK for Ruby

AWS Toolkit for Eclipse

AWS Toolkit for Visual Studio

AWS Billing and Cost Management

AWS Marketplace

AWS Support

Alexa Top Sites

Alexa Web Information Service

Amazon Silk
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<!DOCTYPE html>
<html lang="en" class="">
<head prefix="og: http://ogp.me/ns# fb: http://ogp.me/ns/fb# object: http://ogp.me/ns/object# article: http://ogp.me/ns/article# profile: http://ogp.me/ns/profile#">
<meta charset='utf-8'>
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta http-equiv="Content-Language" content="en">
<meta name="viewport" content="width=1020">
<title>hive/NOTICE at master apache/hive GitHub</title>
<link rel="search" type="application/opensearchdescription+xml" href="/opensearch.xml" title="GitHub">
<link rel="fluid-icon" href="https://github.com/fluidicon.png" title="GitHub">
<link rel="apple-touch-icon" sizes="57x57" href="/apple-touch-icon-114.png">
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<meta property="fb:app_id" content="1401488693436528">
<meta content="@github" name="twitter:site" /><meta content="summary" name="twitter:card" /><meta content="apache/hive" name="twitter:title" /><meta content="hive - Mirror of Apache Hive" name="twitter:description" /><meta content="https://avatars1.githubusercontent.com/u/47359?v=3&s=400" name="twitter:image:src" />
<meta content="hiv - Mirror of Apache Hive" property="og:description" />
<meta name="browser-stats-url" content="https://api.github.com/_private/browser/stats">
<meta name="browser-errors-url" content="https://api.github.com/_private/browser/errors">
<link rel="assets" href="https://assets-cdn.github.com/">
<meta name="pjax-timeout" content="1000">
<meta name="msapplication-TileImage" content="/windows-tile.png">
<meta name="msapplication-TileColor" content="#ffffff">
<meta name="selected-link" value="repo_source" data-pjax-transient>
<meta name="google-site-verification" content="KT5gs8h0wvaagLkAVWq8bfeNwnzzK1r1XQysX3xurlLU" />
<meta name="google-analytics" content="UA-3769691-2" />
<meta content="collector.githubapp.com" name="octolytics-host" /><meta content="github" name="octolytics-app-id" /><meta content="534CE68D:5926:20B63A6D:5649FF8F" name="octolytics-dimension-request_id" />

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1025
<div class="js-clone-url clone-url open" data-protocol-type="http">
<h3 class="text-small text-muted">HTTPS clone URL</h3>
<div class="input-group js-zeroclipboard-container">
<input type="text" class="input-mini text-small text-muted input-monospace js-url-field js-zeroclipboard-target" value="https://github.com/apache/hive.git" readonly="readonly" aria-label="HTTPS clone URL">
<span class="input-group-button">
<button aria-label="Copy to clipboard" class="js-zeroclipboard btn btn-sm zeroclipboard-button tooltipped tooltipped-s" data-copied-hint="Copied!" type="button"><span class="octicon octicon-clippy"></span></button>
</span>
</div>
</div>

<div class="js-clone-url clone-url open" data-protocol-type="subversion">
<h3 class="text-small text-muted">Subversion checkout URL</h3>
<div class="input-group js-zeroclipboard-container">
<input type="text" class="input-mini text-small text-muted input-monospace js-url-field js-zeroclipboard-target" value="https://github.com/apache/hive" readonly="readonly" aria-label="Subversion checkout URL">
<span class="input-group-button">
<button aria-label="Copy to clipboard" class="js-zeroclipboard btn btn-sm zeroclipboard-button tooltipped tooltipped-s" data-copied-hint="Copied!" type="button"><span class="octicon octicon-clippy"></span></button>
</span>
</div>
</div>

<div class="clone-options text-small text-muted">You can clone with
</div>

<form accept-charset="UTF-8" action="/users/set_protocol?protocol_selector=http&protocol_type=clone" class="inline-form js-clone-selector-form" data-form-nonce="6f52e2191341e1b67d1da12a94e55e0e74e28f7" data-remote="true" method="post"><div style="margin:0;padding:0;display:inline"><input name="utf8" type="hidden" value="✓" /><input name="authenticity_token" type="hidden" value="qNr59IC155a7awbdfXKH5ARnpvCaCd170PFj9HkNiIEdJKHmRL+U9+dQYg0sjZcR1yEPR1j9WBBjrVzSS5Tw==" />

<button class="btn-link js-clone-selector" data-protocol="http" type="submit">HTTPS</button>
</form>

<form accept-charset="UTF-8" action="/users/set_protocol?protocol_selector=subversion&protocol_type=clone" class="inline-form js-clone-selector-form" data-form-nonce="6f52e2191341e1b67d1da12a94e55e0e74e28f7" data-remote="true" method="post"><div style="margin:0;padding:0;display:inline"><input name="utf8" type="hidden" value="✓" /><input name="authenticity_token" type="hidden" value="qNr59IC155a7awbdfXKH5ARnpvCaCd170PFj9HkNiIEdJKHmRL+U9+dQYg0sjZcR1yEPR1j9WBBjrVzSS5Tw==" />

<button class="btn-link js-clone-selector" data-protocol="http" type="submit">HTTPS</button>
</form>
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javax.servlet.jsp:javax.servlet.jsp-api

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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
org.apache.tomcat:tomcat-el-api

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org.eclipse.jetty.toolchain:jetty-schemas

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<link href="/css/min.bootstrap.css" rel="stylesheet">
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<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>
</nav>
</header>
</body>
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<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>
</div>
</div>
</nav>
</header>

<!-- 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>
</div>
</div>
</nav>
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var require = {
  baseUrl: "https://a0.awsstatic.com/chrome/js/1.0.308/",
  paths: {
    "jquery": "jquery-amd",
    "psf": "https://a0.awsstatic.com/psf/1.0.1"
  },
  deps: ["scripts"],
  shim: {
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    "forms": ["jquery"],
    "pricing-table": ["jquery", "scripts"],
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    "plugins/bootstrap.collapse": ["jquery"],
    "plugins/bootstrap.dropdown": ["jquery"],
    "plugins/bootstrap.popover": ["jquery"],
    "plugins/bootstrap.tab": ["jquery"],
    "plugins/bootstrap.tooltip": ["jquery"],
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    "plugins/pbSize": ["jquery"],
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    "plugins/search-controller": ["jquery"],
    "plugins/jquery.touchSwipe": ["jquery"]
  },
  waitSeconds: 15
};
</script>
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<!--[if (gte IE 9) | (!IE)]-->
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<script>
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  };
</script>
<script src="https://a0.awsstatic.com/target/1.0.81/aws-target-mediator.js"></script>
</head>
<body>
<h6>AWS & Cloud Computing</h6>

<dl class="aws-link aws-nav-flyout-section-header">INTRODUCTION TO AWS</dl>

<dl class="aws-link"><a href="https://aws.amazon.com/what-is-cloud-computing/?nc2=h_l2_cc">What is Cloud Computing?</a></dl>

<dl class="aws-link"><a href="https://aws.amazon.com/choosing-a-cloud-platform/?nc2=h_l2_cc">Choosing a Cloud Platform</a></dl>

<dl class="aws-link"><a href="https://aws.amazon.com/about-aws/events/?nc2=h_l2_cc">Events & Webinars</a></dl>

<dl class="aws-link"><a href="https://aws.amazon.com/solutions/case-studies/?nc2=h_l2_cc">Customer Success</a></dl>

<dl class="aws-link"><a href="https://aws.amazon.com/about-aws/global-infrastructure/?nc2=h_l2_cc">Global Infrastructure</a></dl>

<dl class="aws-link aws-nav-flyout-section-header">GETTING STARTED</dl>

<dl class="aws-link"><a href="https://aws.amazon.com/getting-started/?nc2=h_l2_cc">Getting Started</a></dl>

<dl class="aws-link"><a href="https://aws.amazon.com/free/?nc2=h_l2_cc">AWS Free Tier</a></dl>

<dl class="aws-link aws-nav-flyout-section-header">NEWS</dl>

<dl class="aws-link"><a href="https://aws.amazon.com/new/?nc2=h_l2_cc">What's New</a></dl>

<dl class="aws-link"><a href="https://aws.amazon.com/blogs/aws/?nc2=h_l2_cc">AWS Blog</a></dl>

<dl class="aws-link"><a href="https://aws.amazon.com/about-aws/in-the-news/?nc2=h_l2_cc">AWS in the News</a></dl>

<dl class="aws-link"><a href="https://aws.amazon.com/resources/analyst-reports/?nc2=h_l2_cc">Analyst Reports</a></dl>
Education/Public Sector organizations use AWS to improve agility while reducing costs.

Products

Compute

Storage

Databases

Migration

Networking & Content Delivery

Developer Tools

Management Tools

Security, Identity & Compliance

Analytics

Artificial Intelligence
Mobile Services

Application Services

Messaging

Business Productivity

Desktop & App Streaming

Internet of Things

Game Development

AWS Marketplace Software

Get Started

Start developing on Amazon Web Services using one of our pre-built sample apps.

SDKs, IDE Toolkits, Command Line Tools, and Developer Tools for AWS.

Tooling and infrastructure resources for DevOps.
Serverless Computing

Build and run applications without thinking about servers.

Forums

User Groups

Java

JavaScript

Mobile

PHP

Ruby

Python

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Documentation

Compute

Storage

Database

Networking & Content Delivery

Migration

Developer Tools

Open Source Used In Kinetic for Cities 4.0.0.0
<a class="aws-has-icon" href="javascript:void(0)" data-flyout="aws-nav-flyout-3-doc-additional-software">Additional Software & Services<i class="icon-angle-right"></i></a>
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<a class="aws-has-icon" href="javascript:void(0)" data-flyout="aws-nav-flyout-3-doc-general-ref">AWS General Reference<i class="icon-angle-right"></i></a>
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<a class="aws-has-icon" href="javascript:void(0)" data-flyout="aws-nav-flyout-3-doc-management-console">AWS Management Console<i class="icon-angle-right"></i></a>
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<div class="aws-nav-flyout-inner">
<h6> Websites & Web Apps</h6>
<div class="aws-link">
<a href="https://aws.amazon.com/websites/?nc2=h_l3_wa">Websites & Website Hosting<span>Power web, social, and mobile apps in the cloud</span> </a>
</div>
<div class="aws-link">
<a href="https://aws.amazon.com/devops/?nc2=h_l3_wa">DevOps<span>Tooling and infrastructure resources for DevOps</span> </a>
</div>
<div class="aws-link">
<a href="https://aws.amazon.com/serverless/?nc2=h_l3_wa">Serverless Computing<span>Build and run applications without thinking about servers</span> </a>
</div>
<div class="aws-link">
<a href="https://aws.amazon.com/ecommerce-applications/?nc2=h_l3_wa">Ecommerce Applications<span>Build secure and scalable online storefronts</span> </a>
</div>
<div class="aws-link">
<a href="https://aws.amazon.com/digital-marketing/?nc2=h_l3_wa">Digital Marketing<span>Highly scalable online advertising and marketing services in the cloud</span> </a>
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</div><div class="aws-link aws-nav-flyout-section-header">
<a class="aws-has-icon" href="javascript:void(0)" data-flyout="aws-nav-flyout-3-doc-resources">Resources<i class="icon-double-angle-right"></i></a>
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SoftNAS Cloud

ONTAP Cloud for AWS

View All Related Products (35+)

Big Data & HPC

High Performance Computing

Internet of Things

Serverless Computing

AWS MARKETPLACE

TIBCO Jaspersoft Reporting and Analytics for AWS (Hourly)

Matillion ETL
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Amazon for Game Developers
Cross-platform building blocks to help you make games

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ORBX Cloud Game Console

Windows Server 2008R2 with NVIDIA GRID GPU Driver

Red5 Media Server

ORBX Cloud Game Console

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Digital Media

Digital Media

Digital Media

Adobe Media Server 5 Extended
CentOS 7
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Debian GNU/Linux 8 (Jessie)
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Alces Flight
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Storage in the Cloud
Amazon Simple Storage Service (S3)
Scalable Storage in the Cloud
Amazon Elastic Block Storage (EBS)
EC2 Block Storage Volumes
Amazon Elastic File System (EFS)
Fully Managed File System for EC2
Amazon Glacier
Low-cost Archive Storage in the Cloud
AWS Storage Gateway
Hybrid Storage Integration
AWS Snowball
Petabyte-scale Data Transport
Amazon ElastiCache (In-memory Caching Service)

Amazon Redshift (Fast, Simple, Cost-Effective Data Warehousing)

AWS Database Migration Service (Migrate Databases with Minimal Downtime)

AWS MARKETPLACE

SAP HANA One

Couchbase

Teradata

View More Database Software

AWS Application Discovery Service (Discover on-premises applications to streamline migration)

AWS Database Migration Service (Migrate)
Databases with Minimal Downtime</span> </a>  
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<a href="https://aws.amazon.com/server-migration-service/?nc2=h_l3_c" AWS Server Migration Service</a>
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<div class="aws-link">
<a href="https://aws.amazon.com/snowball/?nc2=h_l3_sc" AWS Snowball<span>Petabyte-scale Data Transport</span></a>  
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<div class="aws-link">
<a href="https://aws.amazon.com/snowball-edge/?nc2=h_l3_sc" AWS Snowball Edge<span>Petabyte-scale Data Transport with On-board Compute</span></a>
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<div class="aws-link">
<a href="https://aws.amazon.com/snowmobile/?nc2=h_l3_sc" AWS Snowmobile<span>Exabyte-scale Data Transport</span></a>
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<div class="aws-nav-flyout-inner">
<h6> <a href="https://aws.amazon.com/products/networking/?nc2=h_l3_db" Networking & Content Delivery<i class="icon-double-angle-right"></i></a> </h6>
<div class="aws-link">
<a href="https://aws.amazon.com/vpc/?nc2=h_l3_n" Amazon VPC<span>Isolated Cloud Resources</span></a>
</div>
<div class="aws-link">
<a href="https://aws.amazon.com/cloudfront/?nc2=h_l3_sc" Amazon CloudFront<span>Global Content Delivery</span></a>
</div>
<div class="aws-link">
<a href="https://aws.amazon.com/route53/?nc2=h_l3_c" Amazon Route 53<span>Scalable Domain Name System (DNS)</span></a>
</div>
<div class="aws-link">
<a href="https://aws.amazon.com/directconnect/?nc2=h_l3_n" AWS Direct Connect<span>Dedicated Network Connection to AWS</span></a>
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API Usage</span> </a>  
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<div class="aws-link"> 
<a href="https://aws.amazon.com/config/?nc2=h_l3_dm">AWS Config</a>Track Resource Inventory and Changes</div> 
</div> 
<div class="aws-link"> 
<a href="https://aws.amazon.com/opsworks/?nc2=h_l3_dm">AWS OpsWorks</a>Automate Operations with Chef</div> 
</div> 
<div class="aws-link"> 
<a href="https://aws.amazon.com/servicecatalog/?nc2=h_l3_dm">AWS Service Catalog</a>Create and Use Standardized Products</div> 
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<div class="aws-link"> 
<a href="https://aws.amazon.com/premiumsupport/trustedadvisor/?nc2=h_l3_dm">AWS Trusted Advisor</a>Optimize Performance and Security</div> 
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<div class="aws-link"> 
<a href="https://aws.amazon.com/premiumsupport/phd/?nc2=h_l3_dm">AWS Personal Health Dashboard</a>Personalized view of AWS service health</div> 
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<div class="aws-link"> 
<a href="https://aws.amazon.com/cli/?nc2=h_l3_dm">AWS Command Line Interface</a>Unified Tool to Manage AWS Services</div> 
</div> 
<div class="aws-link"> 
<a href="https://aws.amazon.com/console/?nc2=h_l3_dm">AWS Management Console</a>Web-based User Interface</div> 
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<div class="aws-link aws-nav-flyout-section-header"> 
<a class="aws-has-icon" href="https://aws.amazon.com/marketplace/ref=mkt_ste_l2_Deployment?nc2=h_l3_dm">AWS MARKETPLACE</a> 
<i class="icon-double-angle-right"></i></div> 
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<div class="aws-link"> 
<a class="aws-has-icon" href="https://aws.amazon.com/marketplace/pp/B01N24GCFA/&ref=_mkt_ste_menu?nc2=h_l3_dm">Warewolf for Developers</a><i class="icon-external-link"></i></div> 
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<a class="aws-has-icon" href="https://aws.amazon.com/marketplace/pp/B01876K7BU/&ref=_mkt_ste_menu?nc2=h_l3_dm">Kurian</a> <i class="icon-external-link"></i></div> 
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<div class="aws-link">
<a href="https://aws.amazon.com/shield/?nc2=h_l3_dm">AWS Shield</a> DDoS Protection</div>

<a href="https://aws.amazon.com/waf/?nc2=h_l3_dm">AWS WAF</a> Filter Malicious Web Traffic</div>

<h6><a href="/mp/security/?nc2=h_l3_s">View More Security Solutions</a></h6>

<a href="https://aws.amazon.com/products/analytics/?nc2=h_l3_db">Analytics</a>

<a href="https://aws.amazon.com/athena/?nc2=h_l3_al">Amazon Athena</a> Query Data in S3 using SQL</div>
Amazon CloudSearch Managed Search Service
Amazon Elasticsearch Service Run and Scale Elasticsearch Clusters
Amazon Kinesis Work with Real-time Streaming Data
Amazon Redshift Fast, Simple, Cost-effective Data Warehousing
Amazon QuickSight Fast Business Analytics Service
AWS Data Pipeline Orchestration Service for Periodic, Data-Driven Workflows
AWS Glue Prepare and Load Data
AWS MARKETPLACE TIBCO Jaspersoft Reporting and Analytics for AWS (Hourly)
TIBCO Jaspersoft Reporting and Analytics for AWS (Hourly)
Attunity CloudBeam for Amazon Redshift
Matillion ETL for Redshift

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Data Synchronization</span>  </a>
</div>
<div class="aws-link">
<a href="https://aws.amazon.com/pinpoint/?nc2=h_l3_ms">Amazon Pinpoint</a>Push Notifications for Mobile Apps</div>
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<div class="aws-link">
<a href="https://aws.amazon.com/device-farm/?nc2=h_l3_ms">AWS Device Farm</a>Test Android, iOS, and Web Apps on Real Devices in the AWS Cloud</div>
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Amazon WorkMail: Secure Email and Calendaring

Amazon Chime: Frustration-free meetings, video calls, and chat

Desktop & App Streaming

Amazon WorkSpaces: Virtual Desktops in the Cloud

Amazon AppStream 2.0: Stream desktop applications securely to a browser

AWS IoT Platform: Connect Devices to the Cloud

AWS Greengrass: Local Compute, Messaging, and Sync for Devices

AWS IoT Button: Cloud Programmable Dash Button

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Sirqul IoT Platform
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Amazon EFS

Amazon Glacier

AWS Snowball

AWS Storage Gateway

Amazon RDS

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Amazon Redshift

Amazon VPC

Amazon CloudFront

AWS Direct Connect
Elastic Load Balancing
Amazon Route 53
AWS Database Migration Service
AWS Server Migration Service
AWS Schema Conversion Tool
AWS Import/Export
AWS Application Discovery Service
AWS CodeCommit
AWS CodeBuild
AWS CodeDeploy
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AWS CodePipeline

AWS X-Ray

AWS Tools & SDKs

AWS CloudWatch

AWS CloudFormation

AWS CloudTrail

AWS Config

AWS OpsWorks

AWS Service Catalog

AWS Trusted Advisor

AWS Health

AWS Management Console
<h6>Analytics</h6>
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<a href="https://aws.amazon.com/documentation/elasticmapreduce/?icmpid=docs_menu">Amazon EMR</a>
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<a href="https://aws.amazon.com/documentation/cloudsearch/?icmpid=docs_menu">Amazon CloudSearch</a>
</div>
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<a href="https://aws.amazon.com/documentation/elasticsearch-service/?icmpid=docs_menu">Amazon Elasticsearch Service</a>
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<a href="https://aws.amazon.com/documentation/quicksight/?icmpid=docs_menu">Amazon QuickSight</a>
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<div class="aws-link">
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<h6>Artificial Intelligence</h6>
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<a href="https://aws.amazon.com/documentation/polly/?icmpid=docs_menu">Amazon Polly</a>
</div>
<div class="aws-link">
<a href="https://aws.amazon.com/documentation/rekognition/?icmpid=docs_menu">Amazon Rekognition</a>
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AWS Mobile SDK for iOS

AWS Mobile SDK for Unity

AWS Mobile SDK for Xamarin

Amazon SNS

Amazon API Gateway

Amazon Elastic Transcoder

Amazon SWF

AWS Step Functions

Messaging

Amazon SNS

Amazon SES
<a href="https://aws.amazon.com/documentation/sdk-for-java/?icmpid=docs_menu">AWS SDK for Java</a>
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</div>
<div class="aws-link">
<a href="https://aws.amazon.com/documentation/sdk-for-php/?icmpid=docs_menu">AWS SDK for PHP</a>
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<a href="http://boto3.readthedocs.org/en/latest/">AWS SDK for Python (boto)</a>
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<h6>Additional Software & Services</h6>
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<a href="https://aws.amazon.com/documentation/awis/?icmpid=docs_menu">Alexa Web Information</a>
Service</a>
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<a href="https://aws.amazon.com/documentation/silk/?icmpid=docs_menu">Amazon Silk</a>
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Amazon Simple Storage Service (S3)
Amazon Elastic Block Storage (EBS)
Amazon Elastic File System (EFS)
Amazon Glacier
AWS Storage Gateway
AWS Snowball
AWS Snowball Edge
AWS Snowmobile
Amazon Aurora
Amazon RDS
Amazon DynamoDB
Amazon ElastiCache
Amazon Redshift
AWS Database Migration Service
AWS Application Discovery Service
AWS Database Migration Service
AWS Server Migration Service
AWS Snowball
AWS Snowball Edge
AWS Snowmobile
Networking & Content Delivery
<li><a href="https://aws.amazon.com/vpc/?nc2=h_m1">Amazon VPC</a></li>
<li><a href="https://aws.amazon.com/cloudfront/?nc2=h_m1">Amazon CloudFront</a></li>
<li><a href="https://aws.amazon.com/route53/?nc2=h_m1">Amazon Route 53</a></li>
<li><a href="https://aws.amazon.com/directconnect/?nc2=h_m1">AWS Direct Connect</a></li>
<li><a href="https://aws.amazon.com/elasticloadbalancing/?nc2=h_m1">Elastic Load Balancing</a></li>
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<a href="https://aws.amazon.com/elasticbeanstalk/?nc2=h_mo">AWS Elastic Beanstalk</a>
<a href="https://aws.amazon.com/lambda/?nc2=h_mo">AWS Lambda</a>
<a href="https://aws.amazon.com/autoscaling/?nc2=h_mo">Auto Scaling</a>
<a href="https://aws.amazon.com/elasticloadbalancing/?nc2=h_mo">Elastic Load Balancing</a>
<a href="https://aws.amazon.com/marketplace/ref=mkt_ste_l2_ec2_Category?nc1=h_l2_c&nc2=h_mo">AWS Marketplace</a>
<a href="https://aws.amazon.com/s3/?nc2=h_mo">Amazon Simple Storage Service (S3)</a>
<a href="https://aws.amazon.com/ebs/?nc2=h_mo">Amazon Elastic Block Storage (EBS)</a>
<a href="https://aws.amazon.com/efs/?nc2=h_mo">Amazon Elastic File System (EFS)</a>
<a href="https://aws.amazon.com/glacier/?nc2=h_mo">Amazon Glacier</a>
<a href="https://aws.amazon.com/storagegateway/?nc2=h_mo">AWS Storage Gateway</a>
<a href="https://aws.amazon.com/snowball/?nc2=h_mo">AWS Snowball</a>
<a href="https://aws.amazon.com/snowball-edge/?nc2=h_mo">AWS Snowball Edge</a>
<a href="https://aws.amazon.com/snowmobile/?nc2=h_mo">AWS Snowmobile</a>
<a href="https://aws.amazon.com/marketplace/b/2649337011/ref=mkt_ste_l2_S3CDN?page=1&category=2649337011"/>
&nc2=h_mo">AWS Marketplace</a>

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<a href="javascript:void(0)" Databases</a>
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class="aws-nav-mobile-menu-group">
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<a href="https://aws.amazon.com/codedeploy/?nc2=h_mo">AWS CodeDeploy</a>

<a href="https://aws.amazon.com/codepipeline/?nc2=h_mo">AWS CodePipeline</a>

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Artificial Intelligence

Amazon Lex

Amazon Polly

Amazon Rekognition

Amazon Machine Learning

AWS Mobile Hub

Amazon API Gateway

Amazon Cognito

Amazon Pinpoint

AWS Device Farm

AWS Mobile SDK

AWS Step Functions

Amazon API Gateway
Amazon Glacier

AWS Snowball

AWS Storage Gateway

Amazon RDS

Amazon DynamoDB

Amazon Redshift

Amazon ElastiCache

Amazon VPC

Amazon CloudFront

AWS Direct Connect

Elastic Load Balancing
Open Source Used In Kinetic for Cities 4.0.0.0

AWS X-Ray

AWS Tools & SDKs

Amazon CloudWatch

AWS CloudFormation

AWS CloudTrail

AWS Config

AWS OpsWorks

AWS Service Catalog

Trusted Advisor

AWS Health

AWS Management Console

AWS Command Line Interface
<div class="aws-link">
<a href="https://aws.amazon.com/documentation/iot/?icmpid=docs_menu">AWS IoT</a></div>

&laquo;Game Development&raquo;

&laquo;Mobile Services&raquo;

&laquo;Amazon Cognito&raquo;

&laquo;AWS Device Farm&raquo;

&laquo;Amazon Mobile Analytics&raquo;

&laquo;AWS Mobile SDK for Android&raquo;

&laquo;AWS Mobile SDK for iOS&raquo;
AWS Mobile SDK for Unity

AWS Mobile SDK for Xamarin

Amazon SNS

Amazon API Gateway

Amazon Elastic Transcoder

Amazon SWF

AWS Step Functions

Amazon SNS

Amazon SES

Amazon SQS
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<div class="text section">
<p>TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION<br />
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Sections 1 through 9 of this document.</p>
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<li><a href="https://aws.amazon.com/net/?nc1=f_dr">Windows & .NET on AWS</a></li>
<li><a href="https://aws.amazon.com/tools/?nc1=f_dr">SDKs & Tools</a></li>
<li><a href="https://aws.amazon.com/usergroups/?nc1=f_dr">User Groups</a></li>
<li><a href="http://status.aws.amazon.com/">Service Health Dashboard</a></li>
<li><a href="https://forums.aws.amazon.com/?nc1=f_dr">Discussion Forums</a></li>
<li><a href="https://aws.amazon.com/faqs/?nc1=f_dr">FAQs</a></li>
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<li><a href="https://aws.amazon.com/contact-us/?nc1=f_m">Contact Us</a></li>
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David Megginson, david@megginson.com
2000-05-05

<!DOCTYPE html>
<html lang="en" class="">
<head prefix="og: http://ogp.me/ns# fb: http://ogp.me/ns/fb# object: http://ogp.me/ns/object# article: http://ogp.me/ns/article# profile: http://ogp.me/ns/profile#">
<meta charset='utf-8'>
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta http-equiv="Content-Language" content="en">
<meta name="viewport" content="width=1020">
<title>hive/NOTICE at master apache/hive GitHub</title>
<link rel="search" type="application/opensearchdescription+xml" href="/opensearch.xml" title="GitHub">
<link rel="fluid-icon" href="https://github.com/fluidicon.png" title="GitHub">
<link rel="apple-touch-icon" sizes="57x57" href="/apple-touch-icon-114.png">
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<meta name="browser-errors-url" content="https://api.github.com/_private/browser/errors">
<link rel="assets" href="https://assets-cdn.github.com/">
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You can clone with
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<a href="/apache/hive/tree/release-0.12.0-rc0/NOTICE"
   data-name="release-0.12.0-rc0"
   data-skip-pjax="true"
   rel="nofollow"
   class="js-navigation-open select-menu-item-text css-truncate-target"
   title="release-0.12.0-rc0">release-0.12.0-rc0</a>
</div>
<div class="select-menu-item js-navigation-item ">
<span class="select-menu-item-icon octicon octicon-check"></span>
<a href="/apache/hive/tree/release-0.11.0/NOTICE"
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   data-skip-pjax="true"
   rel="nofollow"
   class="js-navigation-open select-menu-item-text css-truncate-target"
   title="release-0.11.0rc2">release-0.11.0rc2</a>
</div>
<div class="select-menu-item js-navigation-item ">
<span class="select-menu-item-icon octicon octicon-check"></span>
<a href="/apache/hive/tree/release-0.11.0-rc1/NOTICE"
   data-name="release-0.11.0-rc1"
   data-skip-pjax="true"
   rel="nofollow"
   class="js-navigation-open select-menu-item-text css-truncate-target"
   title="release-0.11.0-rc1">release-0.11.0-rc1</a>
</div>
<div class="select-menu-item js-navigation-item ">
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   data-skip-pjax="true"
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   title="release-0.11.0-rc0">release-0.11.0-rc0</a>
</div>
<div class="select-menu-item js-navigation-item ">
<span class="select-menu-item-icon octicon octicon-check"></span>
<a href="/apache/hive/tree/release-0.10.0/NOTICE"
   data-name="release-0.10.0"
   data-skip-pjax="true"
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Nothing to show

<div class="btn-group right">
<a href="/apache/hive/find/master"
   class="js-show-file-finder btn btn-sm empty-icon tooltipped tooltipped-nw"
data-pjax
data-hotkey="t"
aria-label="Quickly jump between files">
<span class="octicon octicon-list-unordered"></span>
</a>
<button aria-label="Copy file path to clipboard" class="js-zeroclipboard btn btn-sm zeroclipboard-button tooltipped tooltipped-s" data-copied-hint="Copied!" type="button"><span class="octicon octicon-clippy"></span></button>
</div>

<div class="breadcrumb js-zeroclipboard-target">
<span class="repo-root js-repo-root"><span itemscope="http://data-vocabulary.org/Breadcrumb"><a href="/apache/hive" class="data-branch=" master" data-pjax="true" itemprop="url"><span itemprop="title">hive</span></a></span></span><span class="separator">/</span><strong class="final-path">NOTICE</strong>
</div>

<div class="commit-tease">
<span class="right">
<a class="commit-tease-sha" href="/apache/hive/commit/cdc65dc7c6a0c725054839269a9e04ba02da0f5f" data-pjax>
cdc65dc
</a>
<time datetime="2015-09-23T19:18:16Z" is="relative-time">Sep 23, 2015</time>
</span>
<div>
<img alt="" class="avatar" height="20" src="https://2.gravatar.com/avatar/1e1f04a61a2afdf987f6c73d1476fcd7?d=https%3A%2F%2Fassets-cdn.github.com%2Fimages%2Fgravatars%2Fgravatar-user-420.png&r=x&s=140" width="20" />
<span class="user-mention">Sergio Pena</span>
</div>
</div>
HIVE-11748: HivePreparedStatement's setTimestamp() does not quote value as required (Angus Smithson, reviewed by Sergio Pena)

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4 contributors

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ashutoshc

khorgath

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Last revised by Reagle $Date: 2005-06-03 18:49:13 -0400 (Fri, 03 Jun 2005) $
xml-commons/java/external/README.dom.txt $Id: README.dom.txt 477038 2006-11-20 04:40:36Z mrglavas $

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http://www.w3.org/TR/2000/REC-DOM-Level-2-Traversal-Range-20001113/
http://www.w3.org/TR/2000/REC-DOM-Level-2-Views-20001113/

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http://www.w3.org/DOM/DOMTR

The actual classes of The Simple API for CSS (SAC) came from:
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http://www.w3.org/2002/06/sacjava-1.3.zip

The actual DOM Java Language Binding classes for SMIL came from:
http://dev.w3.org/cvsweb/java/classes/org/w3c/dom/smil/
(both ElementTimeControl.java and TimeEvent.java were taken at revision 1.1)

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http://www.megginson.com/Software/index.html
The original versions are tagged 'SAX-2.0-r2-prerelease'
1 'U
VW&X&Y&Z
V[
ImmutableFsPermissionInnerClasses

B

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_LABEL.java/lang/String;UMASK_LABEL

DEFAULT_UMASKFSACTION_VALUES+{Lorg/apache/hadoop/fs/permission/FsAction;createImmutable1(S)L org/apache/hadoop/fs/permission/FsPermission;CodeLineNumberOfLocalVariableTable

permissionS

Vthis.Lorg/apache/hadoop/fs/permission/FsPermission;(Lorg/apache/hadoop/fs/permission/FsAction;Lorg/apache/hadoop/fs/permission/FsAction;Lorg/apache/hadoop/fs/permission/FsAction;Z)Vsb(S)Vmode1(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;VinLjava/io/DataInput;Lorg/apache/hadoop/fs/permissions;FstoShort()SstoExtendedShortequals(Ljava/lang/Object;)ZthatobjLjava/lang/Object;hashCode()ItoString()Ljava/lang/String;str2Ljava/lang/StringBuilder;str

applyUMask*(Lorg/apache/hadoop/fs/permission/FsPermission;)Lorg/apache/hadoop/fs/permission/FsPermission;u maskgetUMaskV(Lorg/apache/hadoop/conf/Configuration;)Lorg/apache/hadoop/fs/permission/FsPermission;typeerr oriae$Ljava/lang/IllegalArgumentException;

confUmaskoldUmaskconf&Lorg/apache/hadoop/conf/Configuration;getStickyBit()Z

getAclBitgetEncryptedBitsetUMaskW(Lorg/apache/hadoop/conf/Configuration;Lorg/apache/hadoop/fs/permission/FsPermission;)V

default0(Lorg/apache/hadoop/fs/permission/FsPermission;

defaultgetCachePoolDefaultValueOFB(Ljava/lang/String;)Lorg/apache/hadoop/fs/permission/FsPermission;CiunixSymbolicPermission3(Lorg/apache/hadoop/fs/permission/FsPermission$1;Vx00Lorg/apache/hadoop/fs/permission/FsPermission$1;&lt;clinit>

SourceFileFsPermission.javaRuntimeVisibleAnnotationsPublic;Lorg/apache/hadoop/classification/InterfaceAudience_STD_PUBLIC;Class&lt;Lorg/apache/hadoop/classification/InterfaceStability$Stable;fBorg/apache/hadoop/fs/permission/F sPermission$ImmutableFsPermissionfRSTSVWfnynzp+org/apache/hadoop/fs/permission/UmaskParserJ",org/ apache/hadoop/fs/permission/FsPermission java/lang/StringBuilder!Y"$%S&T("*v+,fjfs.permissions.umask-mode-/.

dfs.umaskjava/lang/Integer01"java/lang/IllegalArgumentExceptionjava/lang/NumberFormatExceptiondecimalctal or symbolicCUnable to parse configuration fs.permissions.umask-mode with value as umask.JK234-dfs.umask configuration key is deprecated. Convert to fs.permissions.umask-mode, using octal or symbolic umask
Open Source Used In Kinetic for Cities 4.0.0.0
ity !"#$%&'(&)&*+-./01^***+*+*+:,+Y:
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g/apache/hadoop/fs/permission/AclEntry;>;@Ljava/util/Iterator<Lorg/apache/hadoop/fs/permission/AclEn
try;>;StackMapTablepqreSs
Signature(Lorg/apache/hadoop/fs/permission/FsPermission;Ljava/util/List<Lorg/apache/hadoop/fs/permission/AclEn
try;>;Ljava/util/List<Lorg/apache/hadoop/fs/permission/AclEntry;>;getMinimalAcl@(Lorg/apache/hadoop/fs/permission/FsPermission;);Ljava/util/List:L(Lorg/apache/hadoop/fs/permission/FsPermission;);Ljava/util/List<Lorg/apache/hadoop/fs/permission/AclEntry;>;isMinimalAcl(Ljava/util/List;);Z?(Ljava/util/List<Lorg/apache/hadoop/fs/permission/AclEntry;>;);Z<init>()Vthis)Lorg/apache/hadoop/fs/permission/AclUtil;
SourceFileAclUtil.javaRuntimeVisibleAnnotationsuLimitedPrivateInnerClassesCLorg/apache/hadoop/classification
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mission/AclUtiljava/lang/Object,org/apache/hadoop/fs/permission/FsPermissionjava/util/Listjava/util/Iterator;org/ap
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/apache/hadoop/classification/InterfaceStability$UnstablesizelCom/google/common/collection/ListsnewArrayListWit
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R,Lorg/apache/hadoop/fs/permission/AclEntryType;setTypeb(Lorg/apache/hadoop/fs/permission/AclEntryType;);Lo
g/apache/hadoop/fs/permission/AclEntry$Builder;
getUserAction,()Lorg/apache/hadoop/fs/permission/FsAction;
3/$

%(serialVersionUID)

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

SourceFileAccessControlException.java

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

*+

>++
34

@ A #)&!+"&
3)

!"#$<init>U(Ljava/lang/String;Ljava/lang/String;Lorg/apache/hadoop/fs/permission/FsPermission;)VCodeLineNum
berTableLocalVariableTablethisInnerClasses4Lorg/apache/hadoop/fs/permission/PermissionStatus$2;userLjava/lan
g/String;group

permission.Lorg/apache/hadoop/fs/permission/FsPermission;

applyUMaskb(Lorg/apache/hadoop/fs/permission/FsPermission;)Lorg/apache/hadoop/fs/permission/PermissionStat
us;umask

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

Exceptions%

SourceFilePermissionStatus.javaEnclosingMethod&"java/lang/UnsupportedOperationException(2org/apache/hadoo
p/fs/permission/PermissionStatus$20org/apache/hadoop/fs/permission/PermissionStatusjava/io/IOExceptioncreateI
mmutable(Ljava/lang/String;Ljava/lang/String;Lorg/apache/hadoop/fs/permission/FsPermission;)Lorg/apache/hadoo
p/fs/permission/PermissionStatus();)V0P*+,-	-

*<Y0

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3

<init>(S)VCodeLineNumberTableLocalVariableTablethisImmutableFsPermissionInnerClassesDLorg/apache/hadoo
p/fs/permission/FsPermission$ImmutableFsPermission;

permissionS

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

Exceptions

SourceFileFsPermission.java/java/lang/UnsupportedOperationExceptionBorg/apache/hadoop/fs/permission/FsPermi
ssion$ImmutableFsPermission,org/apache/hadoop/fs/permission/FsPermissionjava/io/IOException()V >*

xy
<Y}
1

nameLjava/lang/String;url<init>('Ljava/lang/String;Ljava/lang/String;)VCodeLineNumberTableLocalVariableTable
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http://www.w3.org/TR/2004/REC-DOM-Level-3-LS-20040407/
http://www.w3.org/TR/2004/NOTE-DOM-Level-3-XPath-20040226/

The specification of DOM Level 2's various parts is at:
http://www.w3.org/TR/2000/REC-DOM-Level-2-Events-20001113/
http://www.w3.org/TR/2000/REC-DOM-Level-2-Style-20001113/
http://www.w3.org/TR/2000/REC-DOM-Level-2-Traversal-Range-20001113/
http://www.w3.org/TR/2000/REC-DOM-Level-2-Views-20001113/

The specification of DOM Level 1's various parts is at:

Links to all available W3C DOM Java Bindings can be found at:
http://www.w3.org/DOM/DOMTR

The actual classes of The Simple API for CSS (SAC) came from:
http://www.w3.org/Style/CSS/SAC/
http://www.w3.org/2002/06/sacjava-1.3.zip

The actual DOM Java Language Binding classes for SMIL came from:
http://dev.w3.org/cvsweb/java/classes/org/w3c/dom/smil/
(both ElementTimeControl.java and TimeEvent.java were taken at revision 1.1)

The actual DOM Java Language Binding classes for SVG 1.1 came from:
http://www.w3.org/TR/SVG11/java.html

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Last revised by Reagle $Date: 2005-06-03 18:49:13 -0400 (Fri, 03 Jun 2005) $
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cdc65dc
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HIVE-11748: HivePreparedStatement's setTimestamp() does not quote value as required (Angus Smithson, reviewed by Sergio Pena)

HIVE-11748: HivePreparedStatement's setTimestamp() does not quote val

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<meta charset="utf-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
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<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="/" class="navbar-brand">Home</a>&nbsp;&raquo&nbsp;<a href="/licenses/">Licenses</a></div>
<ul class="nav navbar-nav navbar-right">
<li class="dropdown">
<a href="#" class="dropdown-toggle" data-toggle="dropdown">About <span class="caret"></span></a>
<ul class="dropdown-menu" role="menu">
<li><a href="/foundation/">Overview</a></li>
<li><a href="/foundation/members.html/">Members</a></li>
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</ul>
</li>
</ul>
</div>
</div>
</nav>
</header>
<article class="main-content">
</article>
<footer>
</footer>
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<header>

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

<div class="container">

<div class="navbar-header">

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

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

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

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

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

</button>

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

</div>

<div class="collapse navbar-collapse" id="mainnav-collapse">

<div style="line-height:20px; padding-top:5px; float:left"><a href="/">Home</a>&nbsp;&raquo&nbsp;<a href="licenses/">Licenses</a></div>

<ul class="nav navbar-nav navbar-right">

<li class="dropdown">

<a href="#" class="dropdown-toggle" data-toggle="dropdown">About <span class="caret"></span></a>

<ul class="dropdown-menu" role="menu">

<li><a href="/foundation">Overview</a></li>

<li><a href="/foundation/members.html">Members</a></li>

<li><a href="/foundation/how-it-works.html">Process</a></li>

</ul>

</li>

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</nav>
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```
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```

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**H1** kafka-connect-elasticsearch

**THEAD**

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AWS Snowball

AWS Snowball Edge

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Amazon DynamoDB <a href="https://aws.amazon.com/dynamodb/?nc2=h_l3_db">Amazon DynamoDB</a> Managed NoSQL Database

Amazon ElastiCache <a href="https://aws.amazon.com/elasticache/?nc2=h_l3_db">Amazon ElastiCache</a> In-memory Caching Service

Amazon Redshift <a href="https://aws.amazon.com/redshift/?nc2=h_l3_db">Amazon Redshift</a> Fast, Simple, Cost-Effective Data Warehousing

AWS Database Migration Service <a href="https://aws.amazon.com/dms/?nc2=h_l3_db">AWS Database Migration Service</a> Migrate Databases with Minimal Downtime

AWS MARKETPLACE <a href="https://aws.amazon.com/marketplace/ref=mkt_ste_l2_db?nc2=h_l3_db">AWS MARKETPLACE</a>

SAP HANA One <a href="https://aws.amazon.com/marketplace/pp/B009KA3CRY/ref=mkt_ste_l2_db_f2?nc2=h_l3_db">SAP HANA One</a>


Teradata <a href="https://aws.amazon.com/marketplace/pp/B01DL44UZI/&ref=_mkt_ste_menu?nc2=h_l3_db">Teradata</a>
Amazon Route 53

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<a href="https://aws.amazon.com/codebuild/?nc2=h_l3_dm">AWS CodeBuild</a> Build and Test Code</span>  </div>
  
  <div class="aws-link">
  
  <div class="aws-link">
    <a href="https://aws.amazon.com/codepipeline/?nc2=h_l3_dm">AWS CodePipeline</a> Release Software using Continuous Delivery</span>  </div>
  
  <div class="aws-link">
    <a href="https://aws.amazon.com/xray/?nc2=h_l3_dm">AWS X-Ray</a> Analyze and Debug Your Applications</span>  </div>
  
  <div class="aws-link">
    <a href="https://aws.amazon.com/cli/?nc2=h_l3_dm">AWS Command Line Interface</a> Unified Tool to Manage AWS Services</span>  </div>
  
  <div class="aws-link aws-nav-flyout-section-header">
    <a class="aws-has-icon" href="/mp/appdev/?nc2=h_l3_dm">View More Developer Tools</a>
  </div>

  <div id="aws-nav-flyout-3-managementtools" class="aws-nav-flyout-content" data-da="ignore-standard-impression">
    <div class="aws-nav-flyout-inner">
      
      <div class="aws-link">
        <a href="https://aws.amazon.com/marketplace/ref=mkt_ste_l2_Deployment?nc2=h_l3_dm">AWS MARKETPLACE</a>
        <i class="icon-double-angle-right"></i>
      </div>

      <div class="aws-link">
        <a href="https://aws.amazon.com/marketplace/pp/B01F7ZIM3O/&ref=_mkt_ste_menu?nc2=h_l3_dm">Zend Server</a>
        <i class="icon-external-link"></i>
      </div>

      <div class="aws-link">
        <a href="https://aws.amazon.com/marketplace/pp/B01J4RBC74/&ref=_mkt_ste_menu?nc2=h_l3_dm">Coldfusion</a>
        <i class="icon-external-link"></i>
      </div>

      <div class="aws-link">
        <a href="https://aws.amazon.com/marketplace/pp/B01AMIH01Q/&ref=_mkt_ste_menu?nc2=h_l3_dm">Chef Server</a>
        <i class="icon-external-link"></i>
      </div>

      <div class="aws-link">
        <a href="/mp/appdev/?nc2=h_l3_dm">View More Developer Tools</a>
      </div>

    </div>
  </div>
<h6><a href="https://aws.amazon.com/products/management/?nc2=h_l3_db">Management Tools</a><i class="icon-double-angle-right"></i></h6>

- Amazon CloudWatch: Monitor Resources and Applications
- Amazon EC2 Systems Manager: Configure and Manage EC2 Instances and On-premises Servers
- AWS CloudFormation: Create and Manage Resources with Templates
- AWS CloudTrail: Track User Activity and API Usage
- AWS Config: Track Resource Inventory and Changes
- AWS OpsWorks: Automate Operations with Chef
- AWS Service Catalog: Create and Use Standardized Products
- AWS Trusted Advisor: Optimize Performance and Security
- AWS Personal Health Dashboard: Personalized view of AWS service health
- AWS Command Line Interface: Unified Tool to Manage AWS Services
- AWS Management Console: Web-based User Interface
- AWS Managed
Services<sup>Infrastructure Operations Management for AWS</sup> <a href="https://aws.amazon.com/marketplace/ref=mkt_ste_l2_Deployment?nc2=h_l3_dm">AWS MARKETPLACE</a><i class="icon-double-angle-right"></i></a>

<a href="https://aws.amazon.com/marketplace/ref=mkt_ste_l2_Deployment?nc2=h_l3_dm">AWS MARKETPLACE</a>Warewolf for Developers<i class="icon-external-link"></i></a>

<a href="https://aws.amazon.com/marketplace/pp/B01N24GCFA/&ref=_mkt_ste_menu?nc2=h_l3_dm">Warewolf</a>

<a href="https://aws.amazon.com/marketplace/pp/B01876K7BU/&ref=_mkt_ste_menu?nc2=h_l3_dm">Kurian</a>

<a href="https://aws.amazon.com/marketplace/pp/B019OULQNQ/&ref=_mkt_ste_menu?nc2=h_l3_dm">Kumolus</a>

<a href="/mp/appdev/?nc2=h_l3_dm">View All Related Solutions<i class="icon-double-angle-right"></i></a>

Security, Identity & Compliance<i class="icon-double-angle-right"></i></a>


<a href="https://aws.amazon.com/certificate-manager/?nc2=h_l3_dm">AWS Certificate Manager</a>Provision, Manage, and Deploy SSL/TLS Certificates</a>

<a href="https://aws.amazon.com/cloudhsm/?nc2=h_l3_dm">AWS CloudHSM</a>Hardware-based Key Storage for Regulatory Compliance
AWS Directory Service
AWS Key Management Service
AWS Organizations
AWS Shield
AWS WAF
AWS Artifact
Trend Micro Deep Security
Barracuda Web Application firewall
Gemalto SafeNet
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Analytics

Amazon Athena

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Amazon Elasticsearch Service

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Amazon Redshift

Amazon QuickSight

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AWS Mobile Hub | Build, Test, and Monitor Mobile Apps

Amazon API Gateway | Build, Deploy, and Manage APIs

Amazon Cognito | User Identity and App Data Synchronization

Amazon Pinpoint | Push Notifications for Mobile Apps

AWS Device Farm | Test Android, iOS, and Web Apps on Real Devices in the AWS Cloud

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Nginx

Citrix Netscaler

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Amazon Pinpoint

Amazon SES

Open Source Used In Kinetic for Cities 4.0.0.0
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Amazon WorkDocs<sup>Secure Enterprise Document Storage and Sharing</sup>

Amazon WorkMail<sup>Secure Email and Calendaring</sup>

Amazon WorkSpaces<sup>Virtual Desktops in the Cloud</sup>

Amazon AppStream 2.0<sup>Stream desktop applications securely to a browser</sup>

AWS IoT Platform<sup>Connect Devices to the Cloud</sup>

AWS Greengrass<sup>Local Compute</sup>
Messaging, and Sync for Devices</a>
</div>
<div class="aws-link">
<a href="https://aws.amazon.com/iotbutton/">AWS IoT Button</a>
</div>
<div class="aws-link aws-nav-flyout-section-header">
<a class="aws-has-icon" href="https://aws.amazon.com/marketplace/ref=mkt_ste_l2_ec2?nc2=h_l3_ap">AWS MARKETPLACE</a>
</div>
<div class="aws-link aws-callout">
<a class="aws-has-icon" href="https://aws.amazon.com/marketplace/search/results?searchTerms=iot&page=1&ref_=mkt_ste_l2_WebApps_f1?nc2=h_l3_ms">View All Related Products</a>
</div>
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</div>
<div id="aws-nav-flyout-3-gamedev" class="aws-nav-flyout-content" data-da="ignore-standard-impression">
<div class="aws-nav-flyout-inner">
<h6> Game Development</h6>
<div class="aws-link">
<a href="https://aws.amazon.com/gamelift/?nc2=h_l3_ap">Amazon GameLift</a>
</div>
<div class="aws-link">
<a href="https://aws.amazon.com/lumberyard/?nc2=h_l3_ap">Amazon Lumberyard</a>
</div>
</div>
</div>
<div id="aws-nav-flyout-3-marketplace" class="aws-nav-flyout-content" data-da="ignore-standard-impression">
<div class="aws-nav-flyout-inner">
</div>
</div>
<div class="aws-link">
<a href="https://aws.amazon.com/marketplace/search/results/ref=mkt_ste_l2_infra_sw_all/?page=1&category=2649276011&nc2=h_l3_mp">INFRASTRUCTURE SOFTWARE (1300+)</a>
</div>

- Application Development
- Application Servers
- Application Stacks
- Big Data
- Databases & Caching
- Network Infrastructure
- Operating Systems
- Security
- BUSINESS SOFTWARE (845+)
Business Intelligence

Collaboration

Content Management

CRM

eCommerce

Education & Research

Financial Services

High Performance Computing

Media

Project Management
Compliance Center: Learn about the compliance programs on the AWS Cloud and establishing controls.

Architecture Center: Learn how to build scalable and reliable applications in the AWS Cloud.

Knowledge Center: Get answers to frequently asked technical support questions.

AWS Answers: Get clear guidance from AWS architects and engineers on common user questions.

Compute:
- Amazon EC2
- Amazon ECR
- Amazon ECS
- Amazon Lightsail
- Amazon VPC
- AWS Elastic Beanstalk
- AWS Lambda
- Auto Scaling
Elastic Load Balancing

Storage

Amazon S3

Amazon EBS

Amazon EFS

Amazon Glacier

AWS Snowball

AWS Storage Gateway

Database

Amazon RDS

Amazon DynamoDB

Amazon ElastiCache

Amazon Redshift
Networking & Content Delivery

- Amazon VPC
- Amazon CloudFront
- AWS Direct Connect
- Elastic Load Balancing
- Amazon Route 53

Migration

- AWS Database Migration Service
- AWS Server Migration Service
- AWS Schema Conversion Tool
- AWS Import/Export
- AWS Application Discovery Service
<div class="aws-link">
<a href="http://docs.aws.amazon.com/cognito/devguide/?icmpid=docs_menu">Amazon Cognito</a></div>

<div class="aws-link">
<a href="https://aws.amazon.com/documentation/devicefarm/?icmpid=docs_menu">AWS Device Farm</a></div>

<div class="aws-link">
<a href="https://aws.amazon.com/documentation/mobileanalytics/?icmpid=docs_menu">Amazon Mobile Analytics</a></div>

<div class="aws-link">
<a href="https://aws.amazon.com/documentation/pinpoint/?icmpid=docs_menu">Amazon Pinpoint</a></div>

<div class="aws-link">
<a href="https://aws.amazon.com/documentation/sdk-for-android/?icmpid=docs_menu">AWS Mobile SDK for Android</a></div>

<div class="aws-link">
<a href="https://aws.amazon.com/documentation/sdk-for-ios/?icmpid=docs_menu">AWS Mobile SDK for iOS</a></div>

<div class="aws-link">
<a href="https://aws.amazon.com/documentation/sdk-for-unity/?icmpid=docs_menu">AWS Mobile SDK for Unity</a></div>

<div class="aws-link">
<a href="http://docs.aws.amazon.com/mobile/sdkforxamarin/developerguide/index.html">AWS Mobile SDK for Xamarin</a></div>

<div class="aws-link">
<a href="https://aws.amazon.com/documentation/sns/?icmpid=docs_menu">Amazon SNS</a></div>

<div id="aws-nav-flyout-3-doc-app" class="aws-nav-flyout-content" data-da="ignore-standard-impression">
<h6>Application Services</h6>

<div class="aws-link">
<a href="https://aws.amazon.com/documentation/apigateway/?icmpid=docs_menu">Amazon API Gateway</a></div>

<div class="aws-link">
<a href="https://aws.amazon.com/documentation/elastic-transcoder/?icmpid=docs_menu">Amazon Elastic Transcoder</a></div>

<div class="aws-link">
<a href="https://aws.amazon.com/documentation/swf/?icmpid=docs_menu">Amazon SWF</a></div>
AWS Step Functions

Messaging

Amazon SNS

Amazon SES

Amazon SQS

Business Productivity

Amazon WorkDocs

Amazon WorkMail

Amazon Chime

Desktop & App Streaming

Amazon WorkSpaces

Amazon WAM
Amazon AppStream 2.0

SDKs & Toolkits

AWS SDK for C++
AWS SDK for Go
AWS SDK for Java
AWS SDK for JavaScript
AWS SDK for .NET
AWS SDK for PHP
AWS SDK for Python (boto)
AWS SDK for Ruby
AWS Toolkit for Eclipse
AWS Toolkit for Visual Studio
<h6> Additional Software & Services</h6>

<a href="https://aws.amazon.com/documentation/marketplace/?icmpid=docs_menu">AWS Marketplace</a>

<a href="https://aws.amazon.com/documentation/aws-support/?icmpid=docs_menu">AWS Support</a>

<a href="https://aws.amazon.com/documentation/alexa-top-sites/?icmpid=docs_menu">Alexa Top Sites</a>

<a href="https://aws.amazon.com/documentation/awis/?icmpid=docs_menu">Alexa Web Information Service</a>

<a href="https://aws.amazon.com/documentation/silk/?icmpid=docs_menu">Amazon Silk</a>


<h6> AWS General Reference</h6>
<a href="http://docs.aws.amazon.com/general/latest/gr/rande.html">Regions and Endpoints</a>


<a href="http://docs.aws.amazon.com/general/latest/gr/aws-arns-and-namespaces.html">ARNs & Service Namespaces</a>

<a href="http://docs.aws.amazon.com/general/latest/gr/aws-service_limits.html">Service Limits</a>

<a href="http://docs.aws.amazon.com/general/latest/gr/glos-chap.html">AWS Glossary</a>
Open Source Used In Kinetic for Cities 4.0.0.0
<ul>
<li><a href="https://aws.amazon.com/ec2/?nc2=h_m1">Amazon EC2</a></li>
<li><a href="/ecr/?nc2=h_m1">Amazon EC2 Container Registry</a></li>
<li><a href="/ecs/?nc2=h_m1">Amazon EC2 Container Service</a></li>
<li><a href="https://amazonlightsail.com">Amazon Lightsail</a></li>
<li><a href="https://aws.amazon.com/vpc/?nc2=h_m1">Amazon VPC</a></li>
<li><a href="/batch/?nc2=h_m1">AWS Batch</a></li>
<li><a href="https://aws.amazon.com/elasticbeanstalk/?nc2=h_m1">AWS Elastic Beanstalk</a></li>
<li><a href="/lambda/?nc2=h_m1">AWS Lambda</a></li>
<li><a href="https://aws.amazon.com/autoscaling/?nc2=h_m1">Auto Scaling</a></li>
<li><a href="/elasticloadbalancing/?nc2=h_m1">Elastic Load Balancing</a></li>
</ul>

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<li><a href="https://aws.amazon.com/s3/?nc2=h_m1">Amazon Simple Storage Service (S3)</a></li>
<li><a href="https://aws.amazon.com/ebs/?nc2=h_m1">Amazon Elastic Block Storage (EBS)</a></li>
<li><a href="https://aws.amazon.com/efs/?nc2=h_m1">Amazon Elastic File System (EFS)</a></li>
<li><a href="https://aws.amazon.com/glacier/?nc2=h_m1">Amazon Glacier</a></li>
<li><a href="https://aws.amazon.com/storagegateway/?nc2=h_m1">AWS Storage Gateway</a></li>
<li><a href="https://aws.amazon.com/snowball/?nc2=h_m1">AWS Snowball</a></li>
<li><a href="https://aws.amazon.com/snowball-edge/?nc2=h_m1">AWS Snowball Edge</a></li>
<li><a href="https://aws.amazon.com/snowmobile/?nc2=h_m1">AWS Snowmobile</a></li>
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<li><a href="https://aws.amazon.com/rds/?nc2=h_m1">Amazon RDS</a></li>
<li><a href="https://aws.amazon.com/dynamodb/?nc2=h_m1">Amazon DynamoDB</a></li>
<li><a href="https://aws.amazon.com/elasticache/?nc2=h_m1">Amazon ElastiCache</a></li>
<li><a href="https://aws.amazon.com/redshift/?nc2=h_m1">Amazon Redshift</a></li>
<li><a href="https://aws.amazon.com/dms/?nc2=h_m1">AWS Database Migration Service</a></li>
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<li><a href="https://aws.amazon.com/opsworks/?nc2=h_m1">AWS OpsWorks</a></li>
<li><a href="https://aws.amazon.com/servicecatalog/?nc2=h_m1">AWS Service Catalog</a></li>
<li><a href="https://aws.amazon.com/premiumsupport/trustedadvisor/?nc2=h_m1">AWS Trusted Advisor</a></li>
<li><a href="https://aws.amazon.com/premiumsupport/phd/?nc2=h_m1">AWS Personal Health Dashboard</a></li>
<li><a href="https://aws.amazon.com/cli/?nc2=h_m1">AWS Command Line Interface</a></li>
<li><a href="https://aws.amazon.com/console/?nc2=h_m1">AWS Management Console</a></li>
<li><a href="https://aws.amazon.com/managed-services/?nc2=h_m1">AWS Managed Services</a></li>
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<li><a href="https://aws.amazon.com/inspector/?nc2=h_m1">Amazon Inspector</a></li>
<li><a href="https://aws.amazon.com/certificate-manager/?nc2=h_m1">AWS Certificate Manager</a></li>
<li><a href="https://aws.amazon.com/cloudhsm/?nc2=h_m1">AWS CloudHSM</a></li>
<li><a href="https://aws.amazon.com/directoryservice/?nc2=h_m1">AWS Directory Service</a></li>
<li><a href="https://aws.amazon.com/cloud-directory/?nc2=h_m1">Amazon Cloud Directory</a></li>
<li><a href="https://aws.amazon.com/kms/?nc2=h_m1">AWS Key Management Service</a></li>
<li><a href="https://aws.amazon.com/organizations/?nc2=h_m1">AWS Organizations</a></li>
<li><a href="https://aws.amazon.com/shield/?nc2=h_m1">AWS Shield</a></li>
<li><a href="https://aws.amazon.com/waf/?nc2=h_m1">AWS WAF</a></li>
<li><a href="https://aws.amazon.com/artifact/?nc2=h_m1">AWS Artifact</a></li>
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<li><a href="https://aws.amazon.com/emr/?nc2=h_m1">Amazon EMR</a></li>
<li><a href="https://aws.amazon.com/cloudsearch/?nc2=h_m1">Amazon CloudSearch</a></li>
<li><a href="https://aws.amazon.com/elasticsearch-service/?nc2=h_m1">Amazon Elasticsearch Service</a></li>
<li><a href="https://aws.amazon.com/kinesis/?nc2=h_m1">Amazon Kinesis</a></li>
<li><a href="https://aws.amazon.com/redshift/?nc2=h_m1">Amazon Redshift</a></li>
<li><a href="https://quicksight.aws/">Amazon QuickSight</a></li>
<li><a href="https://aws.amazon.com/datapipeline/?nc2=h_m1">AWS Data Pipeline</a></li>
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Game Development

<ul>
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<li><a href="https://aws.amazon.com/lumberyard/?nc2=h_m1">Amazon Lumberyard</a></li>
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Amazon EC2 Container Registry
Amazon EC2 Container Service
Amazon Lightsail
Amazon VPC
AWS Batch
AWS Elastic Beanstalk
AWS Lambda
Auto Scaling
Elastic Load Balancing
AWS Marketplace
Amazon Simple Storage Service (S3)
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Amazon Glacier
<a href="https://aws.amazon.com/cloudtrail/?nc2=h_mo">AWS CloudTrail</a>
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<a href="https://aws.amazon.com/opsworks/?nc2=h_mo">AWS OpsWorks</a>
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<a href="https://aws.amazon.com/premiumsupport/trustedadvisor/?nc2=h_mo">AWS Trusted Advisor</a>
</div>
<div class="aws-link">
<a href="https://aws.amazon.com/premiumsupport/phd/?nc2=h_mo">AWS Personal Health Dashboard</a>
</div>
<div class="aws-link">
<a href="https://aws.amazon.com/cli/?nc2=h_mo">AWS Command Line Interface</a>
</div>
<div class="aws-link">
<a href="https://aws.amazon.com/console/?nc2=h_mo">AWS Management Console</a>
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Security, Identity & Compliance
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<a href="https://aws.amazon.com/inspector/?nc2=h_mo">Amazon Inspector</a>
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<div class="aws-link">
<a href="https://aws.amazon.com/certificate-manager/?nc2=h_mo">AWS Certificate Manager</a>
</div>
</div>
<div class="aws-link aws-double-angle">
<a href="https://aws.amazon.com/cloudhsm/?nc2=h_mo">AWS CloudHSM</a>
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Open Source Used In Kinetic for Cities 4.0.0.0

- AWS Device Farm
- AWS Mobile SDK
- AWS Step Functions
- Amazon API Gateway
- Amazon Elastic Transcoder
- Amazon AppStream
- Amazon SQS
- Amazon Pinpoint
- Amazon SES
- Amazon SNS
- AWS Marketplace
The text contains links to various AWS services and resources:

- Mobile
- PHP
- Ruby
- Python
- Windows & .NET
- Training & Resources
  - Training
  - Self-Paced Labs
  - Certification
  - Economics Center
  - Security Center
  - Architecture Center
  - Knowledge Center
  - Whitepapers
  - AWS Answers
Networking & Content Delivery

Amazon VPC

Amazon CloudFront

AWS Direct Connect

Elastic Load Balancing

AWS Database Migration Service

AWS Server Migration Service

AWS Schema Conversion Tool

AWS Import/Export

AWS Application Discovery Service
Open Source Used In Kinetic for Cities 4.0.0.0
Open Source Used In Kinetic for Cities 4.0.0.0

- Amazon Polly
- AWS Rekognition
- Amazon Machine Learning
- AWS IoT
- Amazon GameLift
- Amazon Lumberyard
- AWS Mobile Hub
- Amazon API Gateway
- Amazon Cognito
- AWS Device Farm
Farm

Amazon Mobile Analytics

Amazon Pinpoint

AWS Mobile SDK for Android

AWS Mobile SDK for iOS

AWS Mobile SDK for Unity

AWS Mobile SDK for Xamarin

Amazon SNS

Amazon API Gateway

Amazon Elastic Transcoder

Amazon SWF

AWS Step Functions
SDKs & Toolkits

AWS SDK for C++

AWS SDK for Go

AWS SDK for Java

AWS SDK for JavaScript

AWS SDK for .NET

AWS SDK for PHP

AWS SDK for Python (boto)

AWS SDK for Ruby

AWS Toolkit for Eclipse

AWS Toolkit for Visual Studio

Additional Software & Services

AWS Billing and Cost Management
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<p>Get Started for Free</p>
<a class="button btn-gold" href="https://portal.aws.amazon.com/gp/aws/developer/registration/index.html">Create Free Account</a>
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Resources & Training
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<li><a href="https://aws.amazon.com/developers/?nc1=f_dr">Developers</a></li>
<li><a href="https://aws.amazon.com/java/?nc1=f_dr">Java on AWS</a></li>
<li><a href="https://aws.amazon.com/javascript/?nc1=f_dr">JavaScript on AWS</a></li>
<li><a href="https://aws.amazon.com/mobile/?nc1=f_dr">Mobile on AWS</a></li>
<li><a href="https://aws.amazon.com/php/?nc1=f_dr">PHP on AWS</a></li>
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<li><a href="https://aws.amazon.com/ruby/?nc1=f_dr">Ruby on AWS</a></li>
<li><a href="https://aws.amazon.com/net/?nc1=f_dr">Windows & .NET on AWS</a></li>
<li><a href="https://aws.amazon.com/tools/?nc1=f_dr">SDKs & Tools</a></li>
<li><a href="https://aws.amazon.com/usergroups/?nc1=f_dr">User Groups</a></li>
<li><a href="http://status.aws.amazon.com/?nc1=f_dr">Service Health Dashboard</a></li>
<li><a href="http://forums.aws.amazon.com/?nc1=f_dr">Discussion Forums</a></li>
<li><a href="https://aws.amazon.com/faqs/?nc1=f_dr">FAQs</a></li>
<li><a href="https://aws.amazon.com/documentation/?nc1=f_dr">Documentation</a></li>
<li><a href="https://aws.amazon.com/articles/?nc1=f_dr">Articles & Tutorials</a></li>
<li><a href="https://aws.amazon.com/testdrive/?nc1=f_dr">Test Drives</a></li>
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Manage Your Account
</div>
<ul>
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Amazon Web Services is Hiring.

Amazon Web Services (AWS) is a dynamic, growing business unit within Amazon.com. We are currently hiring Software Development Engineers, Product Managers, Account Managers, Solutions Architects, Support Engineers, System Engineers, Designers and more. Visit our careers page or our Developer-specific careers page to learn more.

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1.117 cxf-bundle-jaxrs 2.6.1
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Gocheck - A rich testing framework for Go

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

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.
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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

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

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

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

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

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

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

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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

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

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

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

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d-tree by Geir Landro

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For hadoop-mapreduce-project/hadoop-mapreduce-client/hadoop-mapreduce-client-nativetask/src/main/native/gtest

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

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* Alec Wysoker
  * Performance and memory usage improvement

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The actual classes of The Simple API for CSS (SAC) came from:
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Last revised by Reagle $Date: 2005-06-03 18:49:13 -0400 (Fri, 03 Jun 2005) $

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Joseph Reagle <site-policy@w3.org>

Last revised by Reagle $Date: 2005-06-03 18:49:13 -0400 (Fri, 03 Jun 2005) $

xml-commons/java/external/README.dom.txt $Id: README.dom.txt 477038 2006-11-20 04:40:36Z mrglavas $

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The actual DOM Java Language Binding classes in xml-commons came from:
http://www.w3.org/TR/2004/REC-DOM-Level-3-Core-20040407/java-binding.html

The specification of DOM Level 3's various parts is at:
http://www.w3.org/TR/2004/REC-DOM-Level-3-Core-20040407/
http://www.w3.org/TR/2004/REC-DOM-Level-3-LS-20040407/
http://www.w3.org/TR/2004/NOTE-DOM-Level-3-XPath-20040226/

The specification of DOM Level 2's various parts is at:
http://www.w3.org/TR/2000/REC-DOM-Level-2-Events-20001113/
http://www.w3.org/TR/2000/REC-DOM-Level-2-Style-20001113/
http://www.w3.org/TR/2000/REC-DOM-Level-2-Traversal-Range-20001113/
http://www.w3.org/TR/2000/REC-DOM-Level-2-Views-20001113/

The specification of DOM Level 1's various parts is at:

Links to all available W3C DOM Java Bindings can be found at:
http://www.w3.org/DOM/DOMTR

The actual classes of The Simple API for CSS (SAC) came from:
http://www.w3.org/Style/CSS/SAC/
http://www.w3.org/2002/06/sacjava-1.3.zip

The actual DOM Java Language Binding classes for SMIL came from:
http://dev.w3.org/cvsweb/java/classes/org/w3c/dom/smil/
(both ElementTimeControl.java and TimeEvent.java were taken at revision 1.1)

The actual DOM Java Language Binding classes for SVG 1.1 came from:
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Last revised by Reagle $Date: 2005-06-03 18:49:13 -0400 (Fri, 03 Jun 2005) $

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David Megginson, david@megginson.com
2000-05-05

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The actual SAX classes in xml-commons came from:
http://www.megginson.com/Software/index.html
The original versions are tagged 'SAX-2_0-r2-prerelease'
1H
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7
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8>?
7@
ABCDEFG
PERMISSION_FULL_CONTROL#Lorg/jets3t/service/acl/Permission;PERMISSION_READPERMISSION_WRITE_ACP;permissionToString()Ljava/lang/String;equals(Ljava/lang/Object;)ZobjLjava/lang/Object;<clinit>()VCodeLineNumberTableLocalVariableTablethisparsePermission7(Ljava/lang/String;)Lorg/jets3t/service/acl/Permission;str
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&"#SqL*i*
LU*
package org.apache.hadoop.fs.permission;

import static org.apache.hadoop.fs.permission.AclEntryScope.*;
import static org.apache.hadoop.fs.permission.AclEntryType.*;
import static org.apache.hadoop.fs.permission.FsAction.*;
import static org.apache.hadoop.hdfs.server.namenode.AclTestHelpers.*;
import static org.junit.Assert.assertEquals;
import static org.junit.Assert.assertFalse;
import static org.junit.Assert.assertTrue;
import static org.junit.Assert.fail;
import java.io.IOException;
import java.util.Arrays;
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.fs.FSDataOutputStream;
import org.apache.hadoop.fs.FileStatus;
import org.apache.hadoop.fs.FileSystem;
import org.apache.hadoop.fs.Path;
import org.apache.hadoop.hdfs.DFSConfigKeys;
import org.apache.hadoop.hdfs.DFSTestUtil;
import org.apache.hadoop.hdfs.DistributedFileSystem;
import org.apache.hadoop.hdfs.HdfsConfiguration;
import org.apache.hadoop.hdfs.MiniDFSCluster;
import org.apache.hadoop.io.IOUtils;
import org.apache.hadoop.security.AccessControlException;
import org.apache.hadoop.security.UserGroupInformation;
import org.junit.AfterClass;
import org.junit.Before;
import org.junit.BeforeClass;
import org.junit.Test;

public class TestStickyBit {


static final UserGroupInformation user1 = 
UserGroupInformation.createUserForTesting("theDoctor", new String[] {"tardis"});
static final UserGroupInformation user2 = 
UserGroupInformation.createUserForTesting("rose", new String[] {"powellestates"});

private static MiniDFSCluster cluster;
private static Configuration conf;
private static FileSystem hdfs;
private static FileSystem hdfsAsUser1;
private static FileSystem hdfsAsUser2;

@BeforeClass
public static void init() throws Exception {
    conf = new HdfsConfiguration();
    conf.setBoolean(DFSConfigKeys.DFS_PERMISSIONS_ENABLED_KEY, true);
    conf.setBoolean(DFSConfigKeys.DFS_NAMENODE_ACLS_ENABLED_KEY, true);
    initCluster(true);
}

private static void initCluster(boolean format) throws Exception {
    cluster = new MiniDFSCluster.Builder(conf).numDataNodes(4).format(format)
            .build();
    hdfs = cluster.getFileSystem();
    assertTrue(hdfs instanceof DistributedFileSystem);
    hdfsAsUser1 = DFSTestUtil.getFileSystemAs(user1, conf);
    assertTrue(hdfsAsUser1 instanceof DistributedFileSystem);
    hdfsAsUser2 = DFSTestUtil.getFileSystemAs(user2, conf);
    assertTrue(hdfsAsUser2 instanceof DistributedFileSystem);
}

@Before
public void setup() throws Exception {
    if (hdfs != null) {
        for (FileStatus stat: hdfs.listStatus(new Path("/"))) {
            hdfs.delete(stat.getPath(), true);
        }
    }
}

@AfterClass
public static void shutdown() throws Exception {
    IOUtils.cleanup(null, hdfs, hdfsAsUser1, hdfsAsUser2);
    if (cluster != null) {
        cluster.shutdown();
    }
}

/**

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2218
* Ensure that even if a file is in a directory with the sticky bit on,
* another user can write to that file (assuming correct permissions).
*/
private void confirmCanAppend(Configuration conf, Path p) throws Exception {
    // Write a file to the new tmp directory as a regular user
    Path file = new Path(p, "foo");
    writeFile(hdfsAsUser1, file);
    hdfsAsUser1.setPermission(file, new FsPermission((short) 0777));

    // Log onto cluster as another user and attempt to append to file
    Path file2 = new Path(p, "foo");
    FSDataOutputStream h = null;
    try {
        h = hdfsAsUser2.append(file2);
        h.write("Some more data").getBytes();
        h.close();
        h = null;
    } finally {
        IOUtils.cleanup(null, h);
    }
}

/**
 * Test that one user can’t delete another user’s file when the sticky bit is
 * set.
 */
private void confirmDeletingFiles(Configuration conf, Path p) throws Exception {
    // Write a file to the new temp directory as a regular user
    Path file = new Path(p, "foo");
    writeFile(hdfsAsUser1, file);

    // Make sure the correct user is the owner
    assertEquals(user1.getShortUserName(),
        hdfsAsUser1.getFileStatus(file).getOwner());

    // Log onto cluster as another user and attempt to delete the file
    try {
        hdfsAsUser2.delete(file, false);
    fail("Shouldn't be able to delete someone else's file with SB on");
    } catch (IOException ioe) {
        assertTrue(ioe instanceof AccessControlException);
        assertTrue(ioe.getMessage().contains("sticky bit"));
        assertTrue(ioe.getMessage().contains("user="+user2.getUserName()));
        assertTrue(ioe.getMessage().contains("path="+file + "+")
        assertTrue(ioe.getMessage().contains("parent="+file.getParent() + "+"));
    }
}
private void confirmStickyBitDoesntPropagate(FileSystem hdfs, Path p) throws IOException {
    // Create a subdirectory within it
    Path p2 = new Path(p, "bar");
    hdfs.mkdirs(p2);

    // Ensure new directory doesn't have its sticky bit on
    assertFalse(hdfs.getFileStatus(p2).getPermission().getStickyBit());
}

private void confirmSettingAndGetting(FileSystem hdfs, Path p, Path baseDir) throws IOException {
    // Initially sticky bit should not be set
    short withSB = (short) (hdfs.getFileStatus(p).getPermission().toShort() | 01000);
    assertTrue((new FsPermission(withSB)).getStickyBit());
    hdfs.setPermission(p, new FsPermission(withSB));
    assertTrue(hdfs.getFileStatus(p).getPermission().getStickyBit());

    // Write a file to the fs, try to set its sticky bit
    Path f = new Path(baseDir, "somefile");
    writeFile(hdfs, f);
    assertFalse(hdfs.getFileStatus(f).getPermission().getStickyBit());
    withSB = (short) (hdfs.getFileStatus(f).getPermission().toShort() | 01000);
    hdfs.setPermission(f, new FsPermission(withSB));
    assertTrue(hdfs.getFileStatus(f).getPermission().getStickyBit());
}

@Test
public void testGeneralSBBehavior() throws Exception {
    Path baseDir = new Path("/mcgann");
hdfs.mkdirs(baseDir);

// Create a tmp directory with wide-open permissions and sticky bit
Path p = new Path(baseDir, "tmp");

hdfs.mkdirs(p);
hdfs.setPermission(p, new FsPermission((short) 01777));

confirmCanAppend(conf, p);

baseDir = new Path("/eccleston");
hdfs.mkdirs(baseDir);
p = new Path(baseDir, "rogueTraders");

hdfs.mkdirs(p);
confirmSettingAndGetting(hdfs, p, baseDir);

baseDir = new Path("/tennant");
hdfs.mkdirs(baseDir);
p = new Path(baseDir, "contemporary");
hdfs.mkdirs(p);
hdfs.setPermission(p, new FsPermission((short) 01777));
confirmDeletingFiles(conf, p);

baseDir = new Path("/smith");
hdfs.mkdirs(baseDir);
p = new Path(baseDir, "scissorsisters");

// Turn on its sticky bit
hdfs.mkdirs(p, new FsPermission((short) 01666));
confirmStickyBitDoesntPropagate(hdfs, baseDir);
}

@Test
public void testAclGeneralSBBehavior() throws Exception {
Path baseDir = new Path("/mcgann");
hdfs.mkdirs(baseDir);

// Create a tmp directory with wide-open permissions and sticky bit
Path p = new Path(baseDir, "tmp");

hdfs.mkdirs(p);
hdfs.setPermission(p, new FsPermission((short) 01777));
applyAcl(p);
confirmCanAppend(conf, p);

baseDir = new Path("/eccleston");
hdfs.mkdirs(baseDir);
p = new Path(baseDir, "rogue traders");

hdfs.mkdirs(p);
applyAcl(p);
confirmSettingAndGetting(hdfs, p, baseDir);

baseDir = new Path("/tennial");
hdfs.mkdirs(baseDir);
p = new Path(baseDir, "contemporary");
hdfs.mkdirs(p);
hdfs.setPermission(p, new FsPermission((short) 01777));
applyAcl(p);
confirmDeletingFiles(conf, p);

baseDir = new Path("/smith");
hdfs.mkdirs(baseDir);
p = new Path(baseDir, "scissorsisters");

// Turn on its sticky bit
hdfs.mkdirs(p, new FsPermission((short) 01666));
applyAcl(p);
confirmStickyBitDoesntPropagate(hdfs, p);
}

/**
 * Test that one user can't rename/move another user's file when the sticky
 * bit is set.
 */
@Test
public void testMovingFiles() throws Exception {
    testMovingFiles(false);
}

@Test
public void testAclMovingFiles() throws Exception {
    testMovingFiles(true);
}

private void testMovingFiles(boolean useAcl) throws Exception {
    // Create a tmp directory with wide-open permissions and sticky bit
    Path tmpPath = new Path("/tmp");
    Path tmpPath2 = new Path("/tmp2");
    hdfs.mkdirs(tmpPath);
    hdfs.mkdirs(tmpPath2);
    hdfs.setPermission(tmpPath, new FsPermission((short) 01777));
    if (useAcl) {
        applyAcl(tmpPath);
    }
hdfs.setPermission(tmpPath2, new FsPermission((short) 01777));
if (useAcl) {
    applyAcl(tmpPath2);
}

// Write a file to the new tmp directory as a regular user
Path file = new Path(tmpPath, "foo");

writeFile(hdfsAsUser1, file);

// Log onto cluster as another user and attempt to move the file
try {
    hdfsAsUser2.rename(file, new Path(tmpPath2, "renamed");
    fail("Shouldn't be able to rename someone else's file with SB on");
} catch (IOException ioe) {
    assertTrue(ioe instanceof AccessControlException);
    assertTrue(ioe.getMessage().contains("sticky bit");
}

/**
 * Ensure that when we set a sticky bit and shut down the file system, we get
 * the sticky bit back on re-start, and that no extra sticky bits appear after
 * re-start.
 */
@Test
public void testStickyBitPersistence() throws Exception {
    // A tale of three directories...
    Path sbSet = new Path("/Housemartins");
    Path sbNotSpecified = new Path("/INXS");
    Path sbSetOff = new Path("/Easyworld");

    for (Path p : new Path[] { sbSet, sbNotSpecified, sbSetOff })
        hdfs.mkdirs(p);

    // Two directories had there sticky bits set explicitly...
    hdfs.setPermission(sbSet, new FsPermission((short) 01777));
    hdfs.setPermission(sbSetOff, new FsPermission((short) 00777));

    shutdown();

    // Start file system up again
    initCluster(false);

    assertTrue(hdfs.exists(sbSet));
    assertTrue(hdfs.getFileStatus(sbSet).getPermission().getStickyBit());
    assertTrue(hdfs.exists(sbNotSpecified));
assertFalse(hdfs.getFileStatus(sbNotSpecified).getPermission().getStickyBit());

assertFalse(hdfs.exists(sbSetOff));
assertFalse(hdfs.getFileStatus(sbSetOff).getPermission().getStickyBit());

@Test
public void testAclStickyBitPersistence() throws Exception {

   // A tale of three directories...
Path sbSet = new Path("/Housemartins");
Path sbNotSpecified = new Path("/INXS");
Path sbSetOff = new Path("/Easyworld");

for (Path p : new Path[]{sbSet, sbNotSpecified, sbSetOff})
   hdfs.mkdirs(p);

   // Two directories had there sticky bits set explicitly...
   hdfs.setPermission(sbSet, new FsPermission((short) 01777));
   applyAcl(sbSet);
   hdfs.setPermission(sbSetOff, new FsPermission((short) 00777));
   applyAcl(sbSetOff);

   shutdown();

   // Start file system up again
   initCluster(false);

   assertTrue(hdfs.exists(sbSet));
   assertTrue(hdfs.getFileStatus(sbSet).getPermission().getStickyBit());

   assertTrue(hdfs.exists(sbNotSpecified));
   assertTrue(hdfs.getFileStatus(sbNotSpecified).getPermission().getStickyBit());

   assertTrue(hdfs.exists(sbSetOff));
   assertTrue(hdfs.getFileStatus(sbSetOff).getPermission().getStickyBit());
   }

/***
* Write a quick file to the specified file system at specified path
*/
static private void writeFile(FileSystem hdfs, Path p) throws IOException {
FSDataOutputStream o = null;
try {
   o = hdfs.create(p);
o.write("some file contents".getBytes());
o.close();
}
```java
o = null;
} finally {
    IOUtils.cleanup(null, o);
}

/**
 * Applies an ACL (both access and default) to the given path.
 * @param p Path to set
 * @throws IOException if an ACL could not be modified
 */
private static void applyAcl(Path p) throws IOException {
    hdfs.modifyAclEntries(p, Arrays.asList(
        aclEntry(ACCESS, USER, user2.getShortUserName(), ALL),
        aclEntry(DEFAULT, USER, user2.getShortUserName(), ALL)));
}
```

```java
<init>()VCodeLineNumberTableLocalVariableTablethisInnerClasses0Lorg/apache/hadoop/fs/permission/FsPermission$1;newInstance!()Lorg/apache/hadoop/io/Writable;
SourceFileFsPermission.javaEnclosingMethod,org/apache/hadoop/fs/permission/FsPermission.org/apache/hadoop/fs/permission/FsPermission$1java/lang/Object$org/apache/hadoop/io/WritableFactory3(Lorg/apache/hadoop/fs/permission/FsPermission$1;)V0/*
*3Y
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Open Source Used In Kinetic for Cities 4.0.0.0

InnerClassesBuilder

ownerLjava/lang/String;
group	

Signature

getOwner()Ljava/lang/String;

getGroup()Ljava/lang/Iterable;

getEntries()Ljava/util/List;

getEffectivePermission()Lorg/apache/hadoop/fs/permission/FsPermission;

entryPerm*()Lorg/apache/hadoop/fs/permission/FsAction;

defaultMaskpermArg

Exceptions

checkArgument(ZLjava/lang/Object;)

google/common/base/Preconditions

checkArgument(ZLjava/lang/Object;)

*+*/?\]

A
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 */

package org.apache.hadoop.fs.permission;

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

public class AclEntryScope {

    public static final AclEntryScope DEFAULT

    public AclEntryScope() {
        // Constructor implementation
    }

    public void method() {
        // Method implementation
    }

    // Additional methods and fields
}

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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Exceptional use cases:

Exception test case: The following exception message is produced when parsing a bad umask:

```
java/lang/IllegalArgumentException: Exception should specify parsing error and invalid umask: "Unable to parse" #octal or symbolic
```

The example umasks show how permissions are represented in octal and symbolic forms:

```
dfs.umask302u=rwx,g=rwx,o=rwx
```

For more information, refer to the documentation for the `java.lang.Files` class.
SourceFile
AclEntry.javaEnclosingMethod*org/apache/hadoop/fs/permission/AclEntry$1InnerClassesjava/lang/Object(org/apache/hadoop/fs/permission/AclEntry
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 */
package org.apache.hadoop.fs.permission;

import java.text.MessageFormat;
import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;

import org.apache.hadoop.hdfs.DFSNamesystem;
/**
* A class that stores both masked and unmasked create modes
* and is a drop-in replacement for masked permission.
*/
@InterfaceAudience.Public
@InterfaceStability.Evolving
public final class FsCreateModes extends FsPermission {
  private final FsPermission unmasked;

  /**
   * Create from unmasked mode and umask.
   *
   * If the mode is already an FsCreateModes object, return it.
   */
  public static FsPermission applyUMask(FsPermission mode,
                                        FsPermission umask) {
    if (mode.getUnmasked() != null) {
      return mode;
    }
    return create(mode.applyUMask(umask), mode);
  }

  /**
   * Create from masked and unmasked modes.
   */
  public static FsCreateModes create(FsPermission masked,
                                     FsPermission unmasked) {
    assert masked.getUnmasked() == null;
    assert unmasked.getUnmasked() == null;
    return new FsCreateModes(masked, unmasked);
  }

  private FsCreateModes(FsPermission masked, FsPermission unmasked) {
    super(masked);
    this.unmasked = unmasked;
    assert masked.getUnmasked() == null;
    assert unmasked.getUnmasked() == null;
  }

  @Override
  public FsPermission getMasked() {
    return this;
  }

  @Override
  public FsPermission getUnmasked() {
    return unmasked;
  }
}
@Override
class toString() {
    return MessageFormat.format("'{0} masked: {0}, unmasked: {1}'",
        super.toString(), getUnmasked());
}

@Override
public boolean equals(Object o) {
    if (this == o) {
        return true;
    }
    if (o == null || getClass() != o.getClass()) {
        return false;
    }
    if (!super.equals(o)) {
        return false;
    }
    FsCreateModes that = (FsCreateModes) o;
    return getUnmasked().equals(that.getUnmasked());
}

@Override
public int hashCode() {
    int result = super.hashCode();
    result = 31 * result + getUnmasked().hashCode();
    return result;
}

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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.Evolving
public class AclStatus {
    private final String owner;
    private final String group;
    private final boolean stickyBit;
    private final List<AclEntry> entries;
    private final FsPermission permission;

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

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

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

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

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

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

@Override
public String toString() {
    return new StringBuilder()
            .append("owner: ").append(owner)
            .append("group: ").append(group)
            .append("acl: {")
            .append("entries: ").append(entries)
            .append("stickyBit: ").append(stickyBit)
            .append("}");
}
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.
     */
    public Builder addEntries(List<AclEntry> entries) {
        this.entries.addAll(entries);
        return this;
    }

    public Builder permission(FsPermission permission) {
        this.permission = permission;
        return this;
    }

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

    public Acl build() {
        // Build Acl instance
        return new Acl(owner, group, entries, permission, stickyBit);
    }
}
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
 */
private AclStatus(String owner, String group, boolean stickyBit, 
    Iterable<AclEntry> entries, FsPermission permission) {
    this.owner = owner;
    this.group = group;
    this.stickyBit = stickyBit;
    this.entries = Lists.newArrayList(entries);
    this.permission = permission;
}

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

/**
 * Get the effective permission for the AclEntry. <br>
 * Recommended to use this API ONLY if client communicates with the old
 * NameNode, needs to pass the Permission for the path to get effective
 * permission, else use { @link AclStatus#getEffectivePermission(AclEntry)}. 
 * @param entry AclEntry to get the effective action
 * @param permArg Permission for the path. However if the client is NOT 
 * communicating with old namenode, then this argument will not have 
 * any preference.
 * @return Returns the effective permission for the entry.
 * @throws IllegalArgumentException If the client communicating with old 
 * namenode and permission is not passed as an argument.
 */
public FsAction getEffectivePermission(AclEntry entry, FsPermission permArg) 
    throws IllegalArgumentException {
    // At least one permission bits should be available.
    Preconditions.checkArgument(this.permission != null || permArg != null,
        "Permission bits are not available to calculate effective permission");
    if (this.permission != null) {
        // permission bits from server response will have the priority for 
        // accuracy.
        permArg = this.permission;
    }
    if ((entry.getName() != null || entry.getType() == AclEntryType.GROUP)) {
        if (entry.getScope() == AclEntryScope.ACCESS) {
            FsAction entryPerm = entry.getPermission();
            return entryPerm.and(permArg.getGroupAction());
        }
    } else {
        // Get the effective permission of the path for the group.
        FsAction groupPerm = permArg.getGroupAction();
        return entryPerm.and(groupPerm);
    }
}
} 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);
}

return entry.getPermission();

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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.
 */
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.
 */
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());

    return acl;
}
// 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;
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 java.util.Collections;
import java.util.List;
import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;
import org.apache.hadoop.fs.permission.AclEntry;
import org.apache.hadoop.fs.permission.AclEntryScope;

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

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

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

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

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

    /**
     * Returns the pivot point in the list between the access entries and the
     * default entries. This is the index of the first element in the list that is
     */
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;
}
D

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_LABELLjava/lang/String;UMASK_LABEL

DEFAULT_UMASK FS ACTION VALUES+[Lorg/apache/hadoop/fs/permission/FsAction;createImmutable1(S)Lo

g/apache/hadoop/fs/permission/FsPermission;CodeLineNumberTableLocalVariableTable

permissionS<init>()Vthis.Lorg/apache/hadoop/fs/permission/FsPermission;(;Lorg/apache/hadoop/fs/permission/FsA

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hadoop/fs/permission/FsAction;Lorg/apache/hadoop/fs/permission/FsAction;Lorg/apache/hadoop/fs/permission/FsA

cion;Z)Vsh(S)Vmode1(Lorg/apache/hadoop/fs/permission/FsPermission;)Vother(Ljava/lang/String;)V

getUserAction,()Lorg/apache/hadoop/fs/permission/FsAction;getGroupActiongetOtherActionsetfromShortnv

StackMapTableawrite(Ljava/io/DataOutput;)VoutLjava/io/DataOutput;
package org.apache.hadoop.fs.permission;

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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;

/**<p>
* 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.Evolving
public class AclEntry {
    private final AclEntryType type;
    private final String name;
    private final FsAction permission;
    private final AclEntryScope scope;

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

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

/**<p>
* Returns the set of permissions in the ACL entry.
*<p>
* @return FsAction set of permissions in the ACL entry
*/

/**
 * @return AclEntryScope scope of the ACL entry
 */

public AclEntryScope getScope() {
    return scope;
}

@Override
public boolean equals(Object o) {
    if (o == null) {
        return false;
    }
    if (getClass() != o.getClass()) {
        return false;
    }
    AclEntry other = (AclEntry)o;
    return Objects.equal(type, other.type) &&
        Objects.equal(name, other.name) &&
        Objects.equal(permission, other.permission) &&
        Objects.equal(scope, other.scope);
}

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

@Override
public String toString() {
    StringBuilder sb = new StringBuilder();
    if (scope == AclEntryScope.DEFAULT) {
        sb.append("default:"
    }
    if (type != null) {
        sb.append(type.toString().toLowerCase());
    }
    sb.append(':');
    if (name != null) {
        sb.append(name);
    }
    sb.append(':');
if (permission != null) {
    sb.append(permission.SYMBOL);
}
return sb.toString();

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

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

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

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

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

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

/**
 * Parses a string representation of an ACL spec into a list of AclEntry
 * objects. Example: "user::rwx,user:foo:rw-,group::r--,other::---"
 *
 * @param aclSpec
 *     String representation of an ACL spec.
 * @param includePermission
 *     for setAcl operations this will be true. i.e. AclSpec should
 *     include permissions.<br>
* But for removeAcl operation it will be false. i.e. AclSpec should not contain permissions.<br>
* Example: "user:foo,group:bar"
* @return Returns list of \{@link AclEntry\} parsed
*/

```java
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 an AclEntry object.<br>
* @param aclStr
* String representation of an ACL.<br>
* Example: "user:foo:rw-"
* @param includePermission
* for setAcl operations this will be true. i.e. Acl should include permissions.<br>
* But for removeAcl operation it will be false. i.e. Acl should not contain permissions.<br>
* Example: "user:foo,group:bar,mask::"
* @return Returns an \{@link AclEntry\} object
*/

```java
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);
   }
```

---

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

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

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

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

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

/**
  * Convert a List of AclEntries into a string - the reverse of parseAclSpec.
  * @param aclSpec List of AclEntries to convert
  * @return String representation of aclSpec
  */
public static String aclSpecToString(List<AclEntry> aclSpec) {
    StringBuilder buf = new StringBuilder();
    for (AclEntry e : aclSpec) {
        buf.append(e.toString());
        buf.append(",");
    }
    return buf.substring(0, buf.length()-1); // remove last ,
}

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

import java.util.regex.Pattern;
import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;

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 * limitations under the License.
 */

package org.apache.hadoop.fs.permission;

import java.util.regex.Pattern;
import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;

/**
 * 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*]+[0-7]{3}\s*$"); // no leading 1 for sticky bit
  private static Pattern umaskSymbolicPattern =
      Pattern.compile("\G\s*(\[ugoa]*)([+=-]+)([rwx]*)([,\s]+)\s*");
  final short umaskMode;

  public UmaskParser(String modeStr) throws IllegalArgumentException {
    super(modeStr, umaskSymbolicPattern, chmodOctalPattern);
    umaskMode = (short)combineModes(0, false);
  }

  /**
   * To be used for file/directory creation only. Symbolic umask is applied
   * relative to file mode creation mask; the permission op characters '+'
   * results in clearing the corresponding bit in the mask, '-' results in bits
   * for indicated permission to be set in the mask.
   *
   * For octal umask, the specified bits are set in the file mode creation mask.
   *
   * @return umask
   */
  public short getUMask() {
    if (symbolic) {
      // Return the complement of octal equivalent of umask that was computed
      return (short) (~umaskMode & 0777);
    }
    return umaskMode;
  }
}
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package org.apache.hadoop.fs.permission;

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

/**
 * Specifies the type of an ACL entry.
 */
@InterfaceAudience.Public
@InterfaceStability.Evolving
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;
}
ENTRY1*Lorg/apache/hadoop/fs/permission/AclEntry;ENTRY2ENTRY3ENTRY4ENTRY5ENTRY6ENTRY7ENTRY8ENTRY9ENTRY10ENTRY11ENTRY12ENTRY13STATUS1+Lorg/apache/hadoop/fs/permission/AclStatus;STATUS2STATUS3STATUS4<init>()VCodeLineNumberTableLocalVariableTablethis)Lorg/apache/hadoop/fs/permission/AclEntry$Builder;aclStatusBuilder3Lorg/apache/hadoop/fs/permission/AclStatus$Builder;RuntimeVisibleAnnotationsLorg/junit/BeforeClass;testEntryEqualsLorg/junit/Test;testEntryHashCodeStackMapTable#testEntryScopeIsAccessIfUnspecifiedtestStatusEqualstestStatusHashCodetestToStringSourceFileTestAcl.javaXY0org/apache/hadoop/fs/permission/AclEntry$Builderuser1EFGFgroup2HFIFJFgroup3KFJLFuser3MFNFOFPFQFRF1org/apache/hadoop/fs/permission/AclStatus$Builderowner1group1STUTowner2VTWTjava/lang/Objectuser:user1:rwxgroup:group2:rw-default:other:---vowner: owner1, group: group1, acl: {entries: [user:user1:rwx, group:group2:rw-, default:other:---], stickyBit: false}Aowner: owner2, group: group2, acl: {entries: []}, stickyBit: true }org/apache/hadoop/fs/permission/TestAcl(org/apache/hadoop/fs/permission/AclEntry$Builderuser1EFGFgroup2HFIFJFgroup3KFJLFuser3MFNFOFPFQFRF1org/apache/hadoop/fs/permission/AclStatus$Builderowner1group1STUTowner2VTWTjava/lang/Objectuser:user1:rwxgroup:group2:rw-default:other:---vowner: owner1, group: group1, acl: {entries: [user:user1:rwx, group:group2:rw-, default:other:---], stickyBit: false}Aowner: owner2, group: group2, acl: {entries: []}, stickyBit: true }org/apache/hadoop/fs/permission/TestAcl(org/apache/hadoop/fs/permission/AclEntry$Builderuser1EFGFgroup2HFIFJFgroup3KFJLFuser3MFNFOFPFQFRF1org/apache/hadoop/fs/permission/AclStatus$Builderowner1group1STUTowner2VTWTjava/lang/Objectuser:user1:rwxgroup:group2:rw-default:other:---vowner: owner1, group: group1, acl: {entries: [user:user1:rwx, group:group2:rw-, default:other:---], stickyBit: false}Aowner: owner2, group: group2, acl: {entries: []}, stickyBit: true }org/apache/hadoop/fs/permission/TestAcl(org/apache/hadoop/fs/permission/AclEntry$Builderuser1EFGFgroup2HFIFJFgroup3KFJLFuser3MFNFOFPFQFRF1org/apache/hadoop/fs/permission/AclStatus$Builderowner1group1STUTowner2VTWTjava/lang/Objectuser:user1:rwxgroup:group2:rw-default:other:---vowner: owner1, group: group1, acl: {entries: [user:user1:rwx, group:group2:rw-, default:other:---], stickyBit: false}Aowner: owner2, group: group2, acl: {entries: []}, stickyBit: true }org/apache/hadoop/fs/permission/TestAcl(org/apache/hadoop/fs/permission/AclEntry$Builderuser1EFGFgroup2HFIFJFgroup3KFJLFuser3MFNFOFPFQFRF1org/apache/hadoop/fs/permission/AclStatus$Builderowner1group1STUTowner2VTWTjava/lang/Objectuser:user1:rwxgroup:group2:rw-default:other:---vowner: owner1, group: group1, acl: {entries: [user:user1:rwx, group:group2:rw-, default:other:---], stickyBit: false}Aowner: owner2, group: group2, acl: {entries: []}, stickyBit: true }org/apache/hadoop/fs/permission/TestAcl(org/apache/hadoop/fs/permission/AclEntry$Builderuser1EFGFgroup2HFIFJFgroup3KFJLFuser3MFNFOFPFQFRF1org/apache/hadoop/fs/permission/AclStatus$Builderowner1group1STUTowner2VTWTjava/lang/Objectuser:user1:rwxgroup:group2:rw-default:other:---vowner: owner1, group: group1, acl: {entries: [user:user1:rwx, group:group2:rw-, default:other:---], stickyBit: false}Aowner: owner2, group: group2, acl: {entries: []}, stickyBit: true }org/apache/hadoop/fs/permission/TestAcl(org/apache/hadoop/fs/permission/AclEntry$Builderuser1EFGFgroup2HFIFJFgroup3KFJLFuser3MFNFOFPFQFRF1org/apache/hadoop/fs/permission/AclStatus$Builderowner1group1STUTowner2VTWTjava/lang/Objectuser:user1:rwxgroup:group2:rw-default:other:---vowner: owner1, group: group1, acl: {entries: [user:user1:rwx, group:group2:rw-, default:other:---], stickyBit: false}Aowner: owner2, group: group2, acl: {entries: []}, stickyBit: true }org/apache/hadoop/fs/permission/TestAcl(org/apache/hadoop/fs/permission/AclEntry$Builderuser1EFGFgroup2HFIFJFgroup3KFJLFuser3MFNFOFPFQFRF1org/apache/hadoop/fs/permission/AclStatus$Builderowner1group1STUTowner2VTWTjava/lang/Objectuser:user1:rwxgroup:group2:rw-default:other:---vowner: owner1, group: group1, acl: {entries: [user:user1:rwx, group:group2:rw-, default:other:---], stickyBit: false}Aowner: owner2, group: group2, acl: {entries: []}, stickyBit: true }
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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.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 mode is invalid
 */
public FsPermission(String mode) {
    this(new RawParser(mode).getPermission());
}

/**
 * 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());
}

/**
 * Get masked permission if exists.
 */
public FsPermission getMasked() {
    return null;
}

/**
 * Get unmasked permission if exists.
 */
public FsPermission getUnmasked() {
    return null;
}

/**
 * Create and initialize a [@link FsPermission] from [@link DataInput].
 */
public static FsPermission read(DataInput in) throws IOException {
    FsPermission p = new FsPermission();
    p.readFields(in);
```java
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");
    }
    return str;
}
```
str = str2.toString();
}

return str;
}

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

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

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

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

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

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

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

    return new FsPermission((short) umask);
}

public boolean getStickyBit() {
    return stickyBit;
}

/**
 * Returns true if there is also an ACL (access control list).
 */
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();
    }
}
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 org.apache.hadoop.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();
            }
        };
    }

    /** 
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     * regarding copyright ownership. The ASF licenses this file
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     * limitations under the License.
     */
private String username;
private String groupname;
private FsPermission permission;

private PermissionStatus() {}
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 static org.junit.Assert.*;
import org.junit.BeforeClass;
import org.junit.Test;

/**
 * Tests covering basic functionality of the ACL objects.
 */
public class TestAcl {
private static AclEntry ENTRY1, ENTRY2, ENTRY3, ENTRY4, ENTRY5, ENTRY6,
ENTRY7, ENTRY8, ENTRY9, ENTRY10, ENTRY11, ENTRY12, ENTRY13;
private static AclStatus STATUS1, STATUS2, STATUS3, STATUS4;

@BeforeClass
public static void setUp() {
    // named user
    AclEntry.Builder aclEntryBuilder = new AclEntry.Builder()
        .setType(AclEntryType.USER)
        .setName("user1")
        .setPermission(FsAction.ALL);
ENTRY1 = aclEntryBuilder.build();
ENTRY2 = aclEntryBuilder.build();
    // named group
ENTRY3 = new AclEntry.Builder()
        .setType(AclEntryType.GROUP)
        .setName("group2")
        .setPermission(FsAction.READ_WRITE)
        .build();
    // default other
ENTRY4 = new AclEntry.Builder()
        .setType(AclEntryType.OTHER)
        .setPermission(FsAction.NONE)
        .setScope(AclEntryScope.DEFAULT)
        .build();
    // owner
ENTRY5 = new AclEntry.Builder()
        .setType(AclEntryType.USER)
        .setPermission(FsAction.ALL)
        .build();
    // default named group
ENTRY6 = new AclEntry.Builder()
        .setType(AclEntryType.GROUP)
        .setName("group3")
        .setPermission(FsAction.READ_WRITE)
        .setScope(AclEntryScope.DEFAULT)
        .build();
    // other
ENTRY7 = new AclEntry.Builder()
.setType(AclEntryType.OTHER)
.setPermission(FsAction.NONE)
.build();
// default named user
ENTRY8 = new AclEntry.Builder()
.setType(AclEntryType.USER)
.setName("user3")
.setPermission(FsAction.ALL)
.setScope(AclEntryScope.DEFAULT)
.build();
// mask
ENTRY9 = new AclEntry.Builder()
.setType(AclEntryType.MASK)
.setPermission(FsAction.READ)
.build();
// default mask
ENTRY10 = new AclEntry.Builder()
.setType(AclEntryType.MASK)
.setPermission(FsAction.READ_EXECUTE)
.setScope(AclEntryScope.DEFAULT)
.build();
// group
ENTRY11 = new AclEntry.Builder()
.setType(AclEntryType.GROUP)
.setPermission(FsAction.READ)
.build();
// default group
ENTRY12 = new AclEntry.Builder()
.setType(AclEntryType.GROUP)
.setPermission(FsAction.READ)
.setScope(AclEntryScope.DEFAULT)
.build();
// default owner
ENTRY13 = new AclEntry.Builder()
.setType(AclEntryType.USER)
.setPermission(FsAction.ALL)
.setScope(AclEntryScope.DEFAULT)
.build();

AclStatus.Builder aclStatusBuilder = new AclStatus.Builder()
.owner("owner1")
.group("group1")
.addEntry(ENTRY1)
.addEntry(ENTRY3)
.addEntry(ENTRY4);
STATUS1 = aclStatusBuilder.build();
STATUS2 = aclStatusBuilder.build();
STATUS3 = new AclStatus.Builder()
STATUS4 = new AclStatus.Builder()
   .addEntry(ENTRY1)
   .addEntry(ENTRY3)
   .addEntry(ENTRY4)
   .addEntry(ENTRY5)
   .addEntry(ENTRY6)
   .addEntry(ENTRY7)
   .addEntry(ENTRY8)
   .addEntry(ENTRY9)
   .addEntry(ENTRY10)
   .addEntry(ENTRY11)
   .addEntry(ENTRY12)
   .addEntry(ENTRY13)
   .build();
}

@Test
public void testEntryEquals() {
    assertNotSame(ENTRY1, ENTRY2);
    assertNotSame(ENTRY1, ENTRY3);
    assertNotSame(ENTRY1, ENTRY4);
    assertNotSame(ENTRY2, ENTRY3);
    assertNotSame(ENTRY2, ENTRY4);
    assertNotSame(ENTRY3, ENTRY4);
    assertEquals(ENTRY1, ENTRY1);
    assertEquals(ENTRY2, ENTRY2);
    assertEquals(ENTRY1, ENTRY2);
    assertEquals(ENTRY2, ENTRY1);
    assertFalse(ENTRY1.equals(ENTRY3));
    assertFalse(ENTRY1.equals(ENTRY4));
    assertFalse(ENTRY3.equals(ENTRY4));
    assertFalse(ENTRY1.equals(null));
    assertFalse(ENTRY1.equals(new Object()));
}

@Test
public void testEntryHashCode() {
    assertEquals(ENTRY1.hashCode(), ENTRY2.hashCode());
    assertFalse(ENTRY1.hashCode() == ENTRY3.hashCode());
    assertFalse(ENTRY1.hashCode() == ENTRY4.hashCode());
    assertFalse(ENTRY3.hashCode() == ENTRY4.hashCode());
    assertFalse(ENTRY1.equals(null));
    assertFalse(ENTRY1.equals(new Object()));
    assertFalse(ENTRY1.equals(new Object()));
}

@Test
public void testEntryHashCode() {
    assertEquals(ENTRY1.hashCode(), ENTRY2.hashCode());
    assertFalse(ENTRY1.hashCode() == ENTRY3.hashCode());
    assertFalse(ENTRY1.hashCode() == ENTRY4.hashCode());
    assertFalse(ENTRY3.hashCode() == ENTRY4.hashCode());
    assertFalse(ENTRY3.equals(null));
    assertFalse(ENTRY3.equals(new Object()));
}
@Test
public void testEntryScopeIsAccessIfUnspecified() {
    assertEquals(AclEntryScope.ACCESS, ENTRY1.getScope());
    assertEquals(AclEntryScope.ACCESS, ENTRY2.getScope());
    assertEquals(AclEntryScope.ACCESS, ENTRY3.getScope());
    assertEquals(AclEntryScope.DEFAULT, ENTRY4.getScope());
}

@Test
public void testStatusEquals() {
    assertEquals(STATUS1, STATUS1);
    assertEquals(STATUS2, STATUS2);
    assertEquals(STATUS1, STATUS2);
    assertEquals(STATUS2, STATUS1);
    assertFalse(STATUS1.equals(STATUS3));
    assertFalse(STATUS2.equals(STATUS3));
    assertFalse(STATUS1.equals(null));
    assertFalse(STATUS1.equals(new Object()));
}

@Test
public void testStatusHashCode() {
    assertEquals(STATUS1.hashCode(), STATUS2.hashCode());
    assertFalse(STATUS1.hashCode() == STATUS3.hashCode());
}

@Test
public void testToString() {
    assertEquals("user: user1: rwx", ENTRY1.toString());
    assertEquals("user: user1: rwx", ENTRY2.toString());
    assertEquals("group: group2: rw-", ENTRY3.toString());
    assertEquals("default: other:: ---", ENTRY4.toString());

    assertEquals("owner: owner1, group: group1, acl: {entries: [user: user1: rwx, group: group2: rw-, default: other:: ---], stickyBit: false}",
            STATUS1.toString());
    assertEquals("owner: owner1, group: group1, acl: {entries: [user: user1: rwx, group: group2: rw-, default: other:: ---], stickyBit: false}",
            STATUS2.toString());
    assertEquals("owner: owner2, group: group2, acl: {entries: [], stickyBit: true}",
            STATUS3.toString());
}
package org.apache.hadoop.fs.permission;

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

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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
     *    [<tt>{@link #getCause()}</tt> 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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5
67
89
6:

;<
=>?@AchmodOctalPatternLjava/util/regex/Pattern;chmodNormalPattern<init>(Ljava/lang/String;)VCodeLineNum
berTableLocalVariableTablethis-Lorg/apache/hadoop/fs/permission/ChmodParser;modeStrLjava/lang/String;
ExceptionsBapplyNewPermission$($Lorg/apache/hadoop/fs/FileStatus;)Sfile!Lorg/apache/hadoop/fs/FileStatus;perm
s.$Lorg/apache/hadoop/fs/permission/FsPermission;existingfexeOkZ
Open Source Used in Kinetic for Cities 4.0.0.0

che/hadoop/conf/Configuration;hdfs!Lorg/apache/hadoop/fs/FileSystem;hdfsAsUser1hdfsAsUser2<init>()V
this/Lorg/apache/hadoop/fs/permission/TestStickyBit;initj ava/lang/Exception;org/junit/BeforeClass;org/apache/hadoop/hdfs/HdfsConfiguration
!#dfs.permissions.enabled%$org/apache/hadoop/conf/Configuration'
setBoolean(Ljava/lang/String;Z)V*
(+dfs.namenode.acls.enabled-initCluster(Z)V/0
1)Lorg/apache/hadoop/conf/Configuration;V3
4numDataNodes2[I]Lorg/apache/hadoop/hdfs/MiniDFSCluster$Builder;67
8format2(Z)Lorg/apache/hadoop/hdfs/MiniDFSCluster$Builder;;;
<build>()Lorg/apache/hadoop/hdfs/MiniDFSCluster;>?
@B
getFileSystem0()Lorg/apache/hadoop/hdfs/DistributedFileSystem;DE
FH.org/apache/hadoop/hdfs/DistributedFileSystem;org/junit/AssertL
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MO
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org/apache/hadoop/conf/Configuration;Lorg/apache/hadoop/fs/FileSystem;UV
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jystat()Lorg/apache/hadoop/fs/FileStatus;arr$len$Ii$shutdownLorg/junit/AfterClass;java/io/Closeableorg/apache/had
oop/io/IOUtils;cleanup7()Lorg/apache/commons/logging/Log;java/io/Closeable;)V
confirmCanAppendD()Lorg/apache/hadoop/conf/Configuration;Lorg/apache/hadoop/fs/Path;VfooO()Lorg/apache/had
oop/fs/Path:Ljava/lang/String;V
cwriteFile?(Lorg/apache/hadoop/fs/FileSystem;Lorg/apache/hadoop/fs/Path;)V
.org/apache/hadoop/fs/permission/FsPermission(S)VV
setPermissionL()Lorg/apache/hadoop/fs/Path;Lorg/apache/hadoop/fs/permission/FsPermission;)V
jappendF()Lorg/apache/hadoop/fs/Path;)Vorg/apache/hadoop/fs/FSDataOutputStream;
JSome more datajava/lang/StringgetBytes()[B
org/apache/hadoop/fs/FSDataOutputStreamwrite([B)V
close
java/lang/ThrowablepLorg/apache/hadoop/fs/Path;filefile2h)org/apache/hadoop/fs/FSDataOutputStream;confirmD
eletingFilesjava/io/IOException org/apache/hadoop/security/UserGroupInformationgetShortUserName()Ljava/lang/
String:
getFileStatus()Lorg/apache/hadoop/fs/Path;)Lorg/apache/hadoop/fs/FileStatus;
jgetOwner
rassertEquals(Ljava/lang/Object;Ljava/lang/Object;)V
M:Shouldn't be able to delete someone else's file with SB onfailf
M1org/apache/hadoop/security/AccessControlException
getMessage

sticky bitcontains(Ljava/lang/CharSequence;)Z
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 */

package org.apache.hadoop.fs.permission;

import java.util.regex.Pattern;
import org.apache.hadoop.classification.InterfaceAudience;

//2I!!Y"$S&,$..2A

BCD E

/0UY5S5=ACCGI1KPR$XXZKP$X^^KPU:_^"HJ!K*L6M?NKOTP9I5lcYehnL+=>+2!vzW4%
{"}o-9TU%V2U8Y


ijk#n-o2q<sfKtNv|w^vx^'cccecy,NZ-RZ-=~zW:PPY:PY-PP-P%36486

%.368@Mp6(ccu!cY,N+-.W+-*'!!! ')+,6YP+,Y+,PcY:-+++6+Y+P> XG2 /=KX^mcY

hLI+WcY+*MI,Wl,Y*5ScY&hLI+WcY+(MI,W*I,+*cY&hLI+WcY+.MI,Wl,Y*5,0cY2hLI+WcY+4MI,Y7W*I+9

^8@KS_gp\{cY

hLI+WcY+*MI,Wl,Y,*5,ScY&hLI+WcY+(MI,W,>l,+*cY&hLI+WcY+.MI,Wl,Y,*5,0cY2hLI+WcY+4MI,Y7

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B4*A

70wcYDhMcYFhNI,III-WI,Y,>l-Y->cY:Z*5cY-5HLWN:PPR>0_PQd=N&

7!:/?SP\%TX*4.L0152346$?cc0cccRcYThLeVYhMcYXhNcY+SY,S:662:IWl+Yl-Y[2I++PI+PI,^PI,^PI-RI

3%}Y8 =_:_/aF@AB!DIERDXHiIZK]{NPQSTWXY:ccczbcYThLeVYhMcYXhNcY+SY,S:662:IWl+Y++1-Y-

>21+*Pi+PI,^PI,^PI-RI%}Y8 =_:_/aAN^_/blcRhXiigmh--iknpqstwxy:cccz

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46

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*/

package org.apache.hadoop.fs.permission;

import java.util.regex.Pattern;
import org.apache.hadoop.classification.InterfaceAudience;

import java.util.regex.Pattern;
import org.apache.hadoop.classification.InterfaceAudience;

import java.util.regex.Pattern;
import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;

@InterfaceAudience.Private
@InterfaceStability.Unstable
class RawParser extends PermissionParser {
    private static Pattern rawOctalPattern =
        Pattern.compile("[^\s*([01]?)([0-7]{3})\s*$");
    private static Pattern rawNormalPattern =
        Pattern.compile("[^G]\s*([ugoa]*)\s*([+=-]*)([rwxt]*)([\s\s]*);\s*$");

    private short permission;

    public RawParser(String modeStr) throws IllegalArgumentException {
        super(modeStr, rawNormalPattern, rawOctalPattern);
        permission = (short)combineModes(0, false);
    }

    public short getPermission() {
        return permission;
    }

    3OP
    QRS
    UVW
    X
    Y
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    VgYhYi
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    UnogetAclFromPermAndEntriesP(Lorg/apache/hadoop/fs/permission/FsPermission;Ljava/util/List;)Ljava/util/List;
    CodeLineNumberTableLocalVariableTableperm.Lorg/apache/hadoop/fs/permission/FsPermission;entriesLjava/util/List;

    entryIterLjava/util/Iterator;curEntry*Lorg/apache/hadoop/fs/permission/AclEntry;LocalVariableTypeTable<Ljava/util/List<Lorg/apache/hadoop/fs/permission/AclEntry;>;@Ljava/util/Iterator<Lorg/apache/hadoop/fs/permission/AclEntry;>;StackMapTablepqreSs
    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;>
    getMinimalAcl@Lorg/apache/hadoop/fs/permission/FsPermission;Ljava/util/List<Lorg/apache/hadoop/fs/permission/AclEntry;>;isMinimalAcl(Ljava/util/List;)Z
    SourceFileAclUtil.javaRuntimeVisibleAnnotationsuLimitedPrivateInnerClassesCLorg/apache/hadoop/classification
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 */

package org.apache.hadoop.fs.permission;

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

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import java.util.regex Matcher;
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import java.util.regex Matcher;
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);
            }
            commaSeparated = true;
        }
    }
}

private void applyOctalPattern(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);
        }
        commaSeparated = true;
    }
}
String str = matcher.group(2);
char type = str.charAt(str.length() - 1);

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

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

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

short mode = 0;

for (char c : matcher.group(3).toCharArray()) {
    switch (c) {
    case 'r':
        mode |= 4;
        break;
    case 'w':
        mode |= 2;
        break;
    case 'x':
        mode |= 1;
        break;
    case 'X':
        mode |= 128;
        break;
    case 't':
        mode |= 64;
        break;
    case 'T':
        mode |= 64;
        break;
    default:
        throw new RuntimeException("Unexpected");
    }
}
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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*/
/**
* This package provides support for HDFS permission and ACL.
*/
@InterfaceAudience.Private
@InterfaceStability.Unstable
package org.apache.hadoop.fs.permission;
import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;
3a
:
<=?

LMNownerLjava/lang/String;group	stickyBitZentriesLjava/util/List;
Signature<Ljava/lang/Iterable;Lorg/apache/hadoop/fs/permission/AclEntry;>;
permission,Lorg/apache/hadoop/fs/permission/FsPermission;<init>()VCodeLineNumberTableLocalVariableTableth
isBuilderInnerClasses3Lorg/apache/hadoop/fs/permission/AclStatus$Builder;G(Ljava/lang/String;)Lorg/apache/hadoo
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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.Evolving
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 java.io.IOException;
import org.apache.hadoop.conf.Configuration;
import junit.framework.TestCase;
import static org.apache.hadoop.fs.permission.FsAction.*;

public class TestFsPermission extends TestCase {
    public void testFsAction() {
        // implies
        for (FsAction a : FsAction.values()) {
            assertTrue(ALL.implies(a));
        }
        for (FsAction a : FsAction.values()) {
            assertTrue(a == NONE? NONE.implies(a): !NONE.implies(a));
        }
        for (FsAction a : FsAction.values()) {
            assertTrue(a == READ_EXECUTE || a == READ || a == EXECUTE || a == NONE?
                READ_EXECUTE.implies(a): !READ_EXECUTE.implies(a));
        }
        // masks
        assertEquals(EXECUTE, EXECUTE.and(READ_EXECUTE));
        assertEquals(READ, READ.and(READ_EXECUTE));
        assertEquals(NONE, WRITE.and(READ_EXECUTE));
        assertEquals(READ, READ_EXECUTE.and(READ_WRITE));
        assertEquals(NONE, READ_EXECUTE.and(WRITE));
        assertEquals(WRITE_EXECUTE, ALL.and(WRITE_EXECUTE));
    }

    /**
     * Ensure that when manually specifying permission modes we get
     * the expected values back out for all combinations
     */
    public void testConvertingPermissions() {

    }
}
for(short s = 0; s <= 01777; s++) {
    assertEquals(s, new FsPermission(s).toShort());
    // check string formats
    assertEquals(s, new FsPermission(String.format("%03o", s)).toShort());
}
short s = 0;

for(boolean sb : new boolean[] {false, true}) {
    for(FsAction u : FsAction.values()) {
        for(FsAction g : FsAction.values()) {
            for(FsAction o : FsAction.values()) {
                // Cover constructor with sticky bit.
                FsPermission f = new FsPermission(u, g, o, sb);
                assertEquals(s, f.toShort());
                FsPermission f2 = new FsPermission(f);
                assertEquals(s, f2.toShort());
                s++;
            }
        }
    }
}
assertEquals(02000, s);

public void testSpecialBitsToString() {
    for (boolean sb : new boolean[] {false, true}) {
        for (FsAction u : FsAction.values()) {
            for (FsAction g : FsAction.values()) {
                for (FsAction o : FsAction.values()) {
                    FsPermission f = new FsPermission(u, g, o, sb);
                    String fString = f.toString();
                    // Check that sticky bit is represented correctly.
                    if (f.getStickyBit() && f.getOtherAction().implies(EXECUTE))
                        assertEquals('t', fString.charAt(8));
                    else if (f.getStickyBit() && !f.getOtherAction().implies(EXECUTE))
                        assertEquals('T', fString.charAt(8));
                    else if (!f.getStickyBit() && f.getOtherAction().implies(EXECUTE))
                        assertEquals('x', fString.charAt(8));
                    else
                        assertEquals('-', fString.charAt(8));
                    assertEquals(9, fString.length());
                }
            }
        }
    }
}
public void testFsPermission() {
    String symbolic = "-rwxrwxrwx";

    for(int i = 0; i < (1 << 10); i++) {
        StringBuilder b = new StringBuilder("----------");
        String binary = String.format("%11s", Integer.toBinaryString(i));
        String permBinary = binary.substring(2, binary.length());

        int len = permBinary.length();
        for(int j = 0; j < len; j++) {
            if (permBinary.charAt(j) == '1') {
                int k = 9 - (len - 1 - j);
                b.setCharAt(k, symbolic.charAt(k));
            }
        }

        // Check for sticky bit.
        if (binary.charAt(1) == '1') {
            char replacement = b.charAt(9) == 'x' ? 't' : 'T';
            b.setCharAt(9, replacement);
        }

        assertEquals(i, FsPermission.valueOf(b.toString()).toShort());
    }
}

public void testSymbolicPermission() {
    for (int i = 0; i < SYMBOLIC.length; ++i) {
        short val = 0777;
        val &= ~Short.valueOf(SYMBOLIC[i][1], 8);
        assertEquals(val, new FsPermission(SYMBOLIC[i][0]).toShort());
    }

    // add sticky bit to "other" when exec enabled
    for (int i = 1; i < SYMBOLIC.length; i += 2) {
        short val = 01777;
        val &= ~Short.valueOf(SYMBOLIC[i][1], 8);
        assertEquals(val, new FsPermission(SYMBOLIC[i][0] + "t").toShort());
    }
}

public void testUMaskParser() throws IOException {
    Configuration conf = new Configuration();

    // Ensure that we get the right octal values back for all legal values
for(FsAction u : FsAction.values()) {
    for(FsAction g : FsAction.values()) {
        for(FsAction o : FsAction.values()) {
            FsPermission f = new FsPermission(u, g, o);
            String asOctal = String.format("%1$03o", f.toShort());
            conf.set(FsPermission.UMASK_LABEL, asOctal);
            FsPermission fromConf = FsPermission.getUMask(conf);
            assertEquals(f, fromConf);
        }
    }
}

public void testSymbolicUmasks() {
    Configuration conf = new Configuration();

    // Test some symbolic to octal settings
    for (int i = 0; i < SYMBOLIC.length; ++i) {
        conf.set(FsPermission.UMASK_LABEL, SYMBOLIC[i][0]);
        short val = Short.valueOf(SYMBOLIC[i][1], 8);
        assertEquals(val, FsPermission.getUMask(conf).toShort());
    }
    conf.set(FsPermission.UMASK_LABEL, "a+rw");
    assertEquals(0111, FsPermission.getUMask(conf).toShort());
}

public void testBadUmasks() {
    Configuration conf = new Configuration();

    for(String b : new String [] {"1777", "22", "99", "foo", ""}) {
        conf.set(FsPermission.UMASK_LABEL, b);
        try {
            FsPermission.getUMask(conf);
            fail("Shouldn't have been able to parse bad umask");
        } catch(IllegalArgumentException iae) {
            assertTrue("Exception should specify parsing error and invalid umask: ",
                isCorrectExceptionMessage(iae.getMessage(), b));
        }
    }
}

private boolean isCorrectExceptionMessage(String msg, String umask) {
    return msg.contains("Unable to parse") &&
        msg.contains(umask) &&
        msg.contains("octal or symbolic");
}

    // Ensure that when the deprecated decimal umask key is used, it is correctly
// parsed as such and converted correctly to an FsPermission value
public void testDeprecatedUmask() {
    Configuration conf = new Configuration();
    conf.set(FsPermission.DEPRECATED_UMASK_LABEL, "302");  // 302 = 0456
    FsPermission umask = FsPermission.getUMask(conf);

    assertEquals(0456, umask.toShort());
}

// Symbolic umask list is generated in linux shell using by the command:
// umask 0; umask <octal number>; umask -S
static final String[][] SYMBOLIC = new String[][] {
    {"u=rwx,g=rwx,o=rwx", "0"},
    {"u=rwx,g=rwx,o=rw", "1"},
    {"u=rwx,g=rwx,o=rx", "2"},
    {"u=rwx,g=rwx,o=r", "3"},
    {"u=rwx,g=rwx,o=wx", "4"},
    {"u=rwx,g=rwx,o=w", "5"},
    {"u=rwx,g=rwx,o=x", "6"},
    {"u=rwx,g=rwx,o="}, "7"},
    {"u=rwx,g=rw,o=rwx", "10"},
    {"u=rwx,g=rw,o=rw", "11"},
    {"u=rwx,g=rw,o=rx", "12"},
    {"u=rwx,g=rw,o=r", "13"},
    {"u=rwx,g=rw,o=wx", "14"},
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*
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* on behalf of the Hypersonic SQL Group.
*/
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<!-- NewPage -->
<html lang="en">
<head>
<!-- Generated by javadoc (version 1.7.0_75) on Wed Apr 05 20:25:06 PDT 2017 -->
<meta http-equiv="Content-Type" content="text/html" charset="UTF-8">
<title>Uses of Class org.apache.hadoop.fs.permission.AclEntryType (Apache Hadoop Main 2.6.0-cdh5.11.0 API)</title>
<meta name="date" content="2017-04-05">
<link rel="stylesheet" type="text/css" href="../../../../../../stylesheet.css" title="Style">
</head>
<body>
<script type="text/javascript"> <!--
if (location.href.indexOf('is-external=true') == -1) {
    parent.document.title="Uses of Class org.apache.hadoop.fs.permission.AclEntryType (Apache Hadoop Main 2.6.0-cdh5.11.0 API)";
}
//--> 
</script>
<noscript>
<div>JavaScript is disabled on your browser.</div>
</noscript>
<!-- ========= START OF TOP NAVBAR ======= -->
<div class="topNav"><a name="navbar_top">
<!--   -->
</a><a href="#skip-navbar_top" title="Skip navigation links"></a><a name="navbar_top_firstrow">
<!--   -->
</a>
<ul class="navList" title="Navigation">
<li><a href="../../../../../../overview-summary.html">Overview</a></li>
<li><a href="../../../../../../package-summary.html">Package</a></li>
<li><a href="../../../../../../org/apache/hadoop/fs/permission/AclEntryType.html" title="enum in org.apache.hadoop.fs.permission">Class</a></li>
<li class="navBarCell1Rev">Use</li>
<li><a href="../../../../../../overview-tree.html">Tree</a></li>
<li><a href="../../../../../../deprecated-list.html">Deprecated</a></li>
<li><a href="../../../../../../index-all.html">Index</a></li>
<li><a href="../../../../../../help-doc.html">Help</a></li>
</ul>
*/
<!doctype html>
<html lang="en">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
<title>Uses of Class org.apache.hadoop.fs.permission.AclEntryType (Apache Hadoop Main 2.6.0-cdh5.11.0 API)</title>
</head>
<body>
<script type="text/javascript"> <!--
if (location.href.indexOf('is-external=true') == -1) {
    parent.document.title="Uses of Class org.apache.hadoop.fs.permission.AclEntryType (Apache Hadoop Main 2.6.0-cdh5.11.0 API)";
}
//--> 
</script>
<noscript>
<div>JavaScript is disabled on your browser.</div>
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<div class="topNav"><a name="navbar_top">
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<li><a href="../../../../../../overview-summary.html">Overview</a></li>
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<li><a href="../../../../../../org/apache/hadoop/fs/permission/AclEntryType.html" title="enum in org.apache.hadoop.fs.permission">Class</a></li>
<li class="navBarCell1Rev">Use</li>
<li><a href="../../../../../../overview-tree.html">Tree</a></li>
<li><a href="../../../../../../deprecated-list.html">Deprecated</a></li>
<li><a href="../../../../../../index-all.html">Index</a></li>
<li><a href="../../../../../../help-doc.html">Help</a></li>
</ul>
*/
<!-- ========= END OF TOP NAVBAR ========= -->

<!-- ======== START OF CLASS CODE ======== -->
<!-- ========= END OF CLASS CODE ========= -->
This package provides support for HDFS permission and ACL.

### Uses of `AclEntryType` in org.apache.hadoop.fs.permission

<table>
<thead>
<tr>
<th>Modifier and Type</th>
<th>Method and Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>AclEntry</code></td>
<td><code>getType()</code></td>
</tr>
<tr>
<td><code>String</code></td>
<td><code>valueOf(String)</code></td>
</tr>
<tr>
<td><code>AclEntryType[]</code></td>
<td><code>values()</code></td>
</tr>
</tbody>
</table>

Each entry type is defined by its associated permission and can be retrieved using the `getType()` method.

```java
public enum AclEntryType {
    // Definitions for each entry type here
}
```
<table>
<thead>
<tr>
<th>Package</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>org.apache.hadoop.fs</td>
<td>Packages that use AclEntry. Use table, listing packages, and an explanation</td>
</tr>
</tbody>
</table>

Packages that use AclEntry:

- org.apache.hadoop.fs.permission.AclEntry
An abstract file system API.

Supporting classes for metrics instrumentation.

This package provides support for HDFS permission and ACL.
<table>
<thead>
<tr>
<th>Column 1</th>
<th>Column 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>void modifyAclEntries(Path src, List aclSpec)</td>
<td>FileContext.modifyAclEntries(path, aclSpec)</td>
</tr>
<tr>
<td></td>
<td>Modifies ACL entries of files and directories.</td>
</tr>
<tr>
<td>void modifyAclEntries(Path path, aclSpec)</td>
<td>AbstractFileSystem.modifyAclEntries(path, aclSpec)</td>
</tr>
<tr>
<td></td>
<td>Modifies ACL entries of files and directories.</td>
</tr>
<tr>
<td>void modifyAclEntries(path, aclSpec)</td>
<td>FileSystem.modifyAclEntries(path, aclSpec)</td>
</tr>
<tr>
<td></td>
<td>Modifies ACL entries of files and directories.</td>
</tr>
</tbody>
</table>
<tr class="rowColor">
<td class="colFirst"><code>void</code></td>
<td class="colLast"><span class="strong">FilterFileSystem.</span><code><strong><a href="../../../../../../../../org/apache/hadoop/fs/FilterFileSystem.html#removeAclEntries(org.apache.hadoop.fs.Path,java.util.List)" title="class or interface in java.util">removeAclEntries</a></strong>(<a href="../../../../../../../../org/apache/hadoop/fs/Path.html" title="class in org.apache.hadoop.fs">Path</a>&nbsp;path,<a href="http://download.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true" title="class or interface in java.util">List</a>&nbsp;<a href="../../../../../../../../org/apache/hadoop/fs/permission/AclEntry.html" title="class in org.apache.hadoop.fs.permission">AclEntry</a>&nbsp;aclSpec)</code> &nbsp;</td>
</tr>
<tr class="altColor">
<td class="colFirst"><code>void</code></td>
<td class="colLast"><span class="strong">ChecksumFileSystem.</span><code><strong><a href="../../../../../../../../org/apache/hadoop/fs/ChecksumFileSystem.html#removeAclEntries(org.apache.hadoop.fs.Path,java.util.List)" title="class or interface in java.util">removeAclEntries</a></strong>(<a href="../../../../../../../../org/apache/hadoop/fs/Path.html" title="class in org.apache.hadoop.fs">Path</a>&nbsp;src,<a href="http://download.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true" title="class or interface in java.util">List</a>&nbsp;<a href="../../../../../../../../org/apache/hadoop/fs/permission/AclEntry.html" title="class in org.apache.hadoop.fs.permission">AclEntry</a>&nbsp;aclSpec)</code> &nbsp;</td>
</tr>
<tr class="rowColor">
<td class="colFirst"><code>void</code></td>
<td class="colLast"><span class="strong">FileContext.</span><code><strong><a href="../../../../../../../../org/apache/hadoop/fs/FileContext.html#removeAclEntries(org.apache.hadoop.fs.Path,java.util.List)" title="class or interface in java.util">removeAclEntries</a></strong>(<a href="../../../../../../../../org/apache/hadoop/fs/Path.html" title="class in org.apache.hadoop.fs">Path</a>&nbsp;path,<a href="http://download.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true" title="class or interface in java.util">List</a>&nbsp;<a href="../../../../../../../../org/apache/hadoop/fs/permission/AclEntry.html" title="class in org.apache.hadoop.fs.permission">AclEntry</a>&nbsp;aclSpec)</code> &nbsp;</td>
</tr>
<tr class="altColor">
<td class="colFirst"><code>void</code></td>
<td class="colLast"><span class="strong">AbstractFileSystem.</span><code><strong><a href="../../../../../../../../org/apache/hadoop/fs/AbstractFileSystem.html#removeAclEntries(org.apache.hadoop.fs.Path,java.util.List)" title="class or interface in java.util">removeAclEntries</a></strong>(<a href="../../../../../../../../org/apache/hadoop/fs/Path.html" title="class in org.apache.hadoop.fs">Path</a>&nbsp;path,<a href="http://download.oracle.com/javase/7/docs/api/java/util/List.html?is-external=true" title="class or interface in java.util">List</a>&nbsp;<a href="../../../../../../../../org/apache/hadoop/fs/permission/AclEntry.html" title="class in org.apache.hadoop.fs.permission">AclEntry</a>&nbsp;aclSpec)</code> &nbsp;</td>
</tr>
</table>

The <code>removeAclEntries</code> method modifies ACL entries of files and directories. It accepts a Path object and a List of AclEntry objects as parameters. Each AclEntry represents an access control entry that specifies the permissions for a particular user or group on a file or directory. The method removes these entries from the specified file or directory, allowing for fine-grained control over file and directory access. This is particularly useful in scenarios where access control needs to be adjusted dynamically, such as in a file system that is shared among multiple users or processes.
<tr class="rowColor">
<td class="colFirst"><code>void</code></td>
<td class="colLast"><span class="strong">FileSystem</span>.<code><strong>removeAclEntries</strong>(<a href="../../../../../org/apache/hadoop/fs/Path.html" title="class in org.apache.hadoop.fs">Path</a>&nbsp;path,
<span class="strong">List</span>&lt;<a href="../../../../../org/apache/hadoop/fs/permission/AclEntry.html" title="class in org.apache.hadoop.fs.permission">AclEntry</a>&gt;&nbsp;aclSpec)</code></td>
</tr>
<tr class="altColor">
<td class="colFirst"><code>void</code></td>
<td class="colLast"><span class="strong">FilterFileSystem</span>.<code><strong>setAcl</strong>(<a href="../../../../../org/apache/hadoop/fs/Path.html" title="class in org.apache.hadoop.fs">Path</a>&nbsp;path,
<span class="strong">List</span>&lt;<a href="../../../../../org/apache/hadoop/fs/permission/AclEntry.html" title="class in org.apache.hadoop.fs.permission">AclEntry</a>&gt;&nbsp;aclSpec)</code>&nbsp;</td>
</tr>
<tr class="rowColor">
<td class="colFirst"><code>void</code></td>
<td class="colLast"><span class="strong">ChecksumFileSystem</span>.<code><strong>setAcl</strong>(<a href="../../../../../org/apache/hadoop/fs/Path.html" title="class in org.apache.hadoop.fs">Path</a>&nbsp;src,
<span class="strong">List</span>&lt;<a href="../../../../../org/apache/hadoop/fs/permission/AclEntry.html" title="class in org.apache.hadoop.fs.permission">AclEntry</a>&gt;&nbsp;aclSpec)</code>&nbsp;</td>
</tr>
<tr class="altColor">
<td class="colFirst"><code>void</code></td>
<td class="colLast"><span class="strong">FileContext</span>.<code><strong>setAcl</strong>(<a href="../../../../../org/apache/hadoop/fs/Path.html" title="class in org.apache.hadoop.fs">Path</a>&nbsp;path,
<span class="strong">List</span>&lt;<a href="../../../../../org/apache/hadoop/fs/permission/AclEntry.html" title="class in org.apache.hadoop.fs.permission">AclEntry</a>&gt;&nbsp;aclSpec)</code></td>
</tr>
</table>

Fully replaces ACL of files and directories, discarding all existing

---

Open Source Used In Kinetic for Cities 4.0.0.0
<table>
<thead>
<tr>
<th>Method</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>void AbstractFileSystem.setAcl(Path path, List&lt;AclEntry&gt; aclSpec)</code></td>
<td>Fully replaces ACL of files and directories, discarding all existing entries.</td>
</tr>
<tr>
<td><code>void FileSystem.setAcl(Path path, List&lt;AclEntry&gt; aclSpec)</code></td>
<td>Fully replaces ACL of files and directories, discarding all existing entries.</td>
</tr>
</tbody>
</table>
Modifies ACL entries of files and directories.

```
void AdlFileSystem.modifyAclEntries(Path path, java.util.List aclSpec)
```

Removes ACL entries from files and directories.

```
void AdlFileSystem.removeAclEntries(Path path, java.util.List aclSpec)
```

Fully replaces ACL of files and directories, discarding all existing entries.

```
void AdlFileSystem.setAcl(Path path, java.util.List aclSpec)
```
<table>
<thead>
<tr>
<th>Modifier and Type</th>
<th>Method and Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>static</td>
<td>AclEntry parseAclEntry(String aclStr, boolean includePermission)</td>
</tr>
<tr>
<td> </td>
<td>Parses a string representation of an ACL into a AclEntry object.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Modifier and Type</th>
<th>Method and Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AclStatus.getEntries()</td>
</tr>
<tr>
<td> </td>
<td>Returns the list of all ACL entries, ordered by their natural ordering.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Modifier and Type</th>
<th>Method and Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>static</td>
<td>AclEntry parseAclSpec(String aclSpec, boolean includePermission)</td>
</tr>
<tr>
<td> </td>
<td>Parses an ACL specification into an AclEntry object.</td>
</tr>
</tbody>
</table>
Parses a string representation of an ACL spec into a list of AclEntry objects.

<table>
<thead>
<tr>
<th>Modifier and Type</th>
<th>Method and Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>AclStatus</code></td>
<td><code>getEffectivePermission(AclEntry)</code></td>
</tr>
<tr>
<td><code>AclStatus</code></td>
<td><code>getEffectivePermission(AclEntry, FsPermission)</code></td>
</tr>
</tbody>
</table>

Get the effective permission for the AclEntry.

Get the effective permission for the AclEntry.
<table>
<thead>
<tr>
<th>Modifier and Type</th>
<th>Method and Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>static String</td>
<td>AclEntry.aclSpecToString(List AclEntry)</td>
</tr>
<tr>
<td>static void</td>
<td>ViewFs.modifyAclEntries(Path path, List AclEntry aclSpec)</td>
</tr>
</tbody>
</table>

Convert a List of AclEntries into a string - the reverse of parseAclSpec.
<table>
<thead>
<tr>
<th>Method</th>
<th>Signature</th>
</tr>
</thead>
<tbody>
<tr>
<td>ViewFileSystem.modifyAclEntries</td>
<td><code>(Path path, List&lt;AclEntry&gt; aclSpec)</code></td>
</tr>
<tr>
<td>ViewFs.removeAclEntries</td>
<td><code>(Path path, List&lt;AclEntry&gt; aclSpec)</code></td>
</tr>
<tr>
<td>ViewFileSystem.removeAclEntries</td>
<td><code>(Path path, List&lt;AclEntry&gt; aclSpec)</code></td>
</tr>
<tr>
<td>ViewFs.setAcl</td>
<td><code>(Path path, List&lt;AclEntry&gt; aclSpec)</code></td>
</tr>
<tr>
<td>ViewFileSystem.setAcl</td>
<td><code>(Path path, List&lt;AclEntry&gt; aclSpec)</code></td>
</tr>
</tbody>
</table>
interface in java.util">List</a>&nbsp;aclSpec)</code>&nbsp;
</td>
</tr>
</tbody>
</table>

<!-- ======= START OF BOTTOM NAVBAR ====== -->
<div class="bottomNav"><a name="navbar_bottom"
"title="Skip navigation links"></a><a name="navbar_bottom_firstrow"
"title="Skip navigation links"></a>
<ul class="navList" title="Navigation">
<li><a href="overview-summary.html">Overview</a></li>
<li><a href="package-summary.html">Package</a></li>
<li><a href="org.apache.hadoop.fs.permission/AclEntry.html" title="class in
org.apache.hadoop.fs.permission">Class</a></li>
<li class="navBarCell1Rev">Use</li>
<li><a href="overview-tree.html">Tree</a></li>
<li><a href="deprecated-list.html">Deprecated</a></li>
<li><a href="index-all.html">Index</a></li>
<li><a href="help-doc.html">Help</a></li>
</ul>
</div>
<div class="subNav">
<ul class="navList">
<li>Prev</li>
<li>Next</li>
</ul>
<ul class="navList">
<li><a href="index.html?org/apache/hadoop/fs/permission/class-use/AclEntry.html" target="_top">Frames</a></li>
<li><a href="AclEntry.html" target="_top">No Frames</a></li>
</ul>
<ul class="navList" id="allclasses_navbar_bottom">
<li><a href="allclasses-noframe.html">All Classes</a></li>
</ul>
<div>
<script type="text/javascript">"
allClassesLink = document.getElementById("allclasses_navbar_bottom");
if(window==top) {
    allClassesLink.style.display = "block";
} else {

```
This package provides support for HDFS permission and ACL.
<ul class="navList">
<li><a href="../../../../../../../../index.html?org/apache/hadoop/fs/permission/class-use/AclEntryScope.html" target="_top">Frames</a></li>
<li><a href="AclEntryScope.html" target="_top">No Frames</a></li>
</ul>

<div class="navList id="allclasses_navbar_top">
<li><a href="../../../../../../../../allclasses-noframe.html">All Classes</a></li>
</div>

<div class="header">
<h2 title="Uses of Class org.apache.hadoop.fs.permission.AclEntryScope" class="title">Uses of Class<br>org.apache.hadoop.fs.permission.AclEntryScope</h2>
</div>

<div class="classUseContainer">
<ul class="blockList">
<li class="blockList">
<table border="0" cellpadding="3" cellspacing="0" summary="Use table, listing packages, and an explanation"
caption="Packages that use <a href="../../../../../../../../org/apache/hadoop/fs/permission/AclEntryScope.html" title="enum in org.apache.hadoop.fs.permission">AclEntryScope</a>" class="header">
<tbody>
<tr class="altColor">
<td class="colFirst"><a href="#org.apache.hadoop.fs.permission">org.apache.hadoop.fs.permission</a></td>
<td class="colLast">
<div class="block">This package provides support for HDFS permission and ACL.</div>
</td>
</tr>
</tbody>
</table>
</li>
</ul>
</div>

<div class="classUseContainer">
<ul class="blockList">
<li class="blockList">
<table border="0" cellpadding="3" cellspacing="0" summary="Use table, listing packages, and an explanation"
caption="Packages that use <a href="#org.apache.hadoop.fs.permission">org.apache.hadoop.fs.permission</a>" class="header">
<tbody>
<tr class="altColor">
<td class="colFirst"><a href="#org.apache.hadoop.fs.permission">org.apache.hadoop.fs.permission</a></td>
<td class="colLast">
<div class="block">This package provides support for HDFS permission and ACL.</div>
</td>
</tr>
</tbody>
</table>
</li>
</ul>
</div>
<table>
<thead>
<tr>
<th>Modifier and Type</th>
<th>Method and Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><code>AclEntry.getScope()</code></td>
</tr>
<tr>
<td>static</td>
<td><code>valueOf(String)</code></td>
</tr>
<tr>
<td>static</td>
<td><code>values()</code></td>
</tr>
</tbody>
</table>

Uses of `AclEntryScope` in `org.apache.hadoop.fs.permission`
Uses of Class org.apache.hadoop.fs.permission.AclStatus

<table>
<thead>
<tr>
<th>Package</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>org.apache.hadoop.fs</td>
<td>An abstract file system API.</td>
</tr>
<tr>
<td>org.apache.hadoop.fs.adl</td>
<td></td>
</tr>
</tbody>
</table>
Supporting classes for metrics instrumentation.
<td class="colFirst"><code><a href="../../../../../../org/apache/hadoop/fs/permission/AclStatus.html" title="class in org.apache.hadoop.fs.permission">AclStatus</a></code></td>
<td class="colLast"><span class="strong">AbstractFileSystem.</span><code><strong><a href="../../../../../../org/apache/hadoop/fs/AbstractFileSystem.html#getAclStatus(org.apache.hadoop.fs.Path)">getAclStatus</a></strong>(<a href="../../../../../../org/apache/hadoop/fs/Path.html" title="class in org.apache.hadoop.fs">Path</a>&nbsp;path)</code>
<div class="block">Gets the ACLs of files and directories.</div></td>
</tr>
<tr class="rowColor">
<td class="colFirst"><code><a href="../../../../../../org/apache/hadoop/fs/permission/AclStatus.html" title="class in org.apache.hadoop.fs.permission">AclStatus</a></code></td>
<td class="colLast"><span class="strong">FileSystem.</span><code><strong><a href="../../../../../../org/apache/hadoop/fs/FileSystem.html#getAclStatus(org.apache.hadoop.fs.Path)">getAclStatus</a></strong>(<a href="../../../../../../org/apache/hadoop/fs/Path.html" title="class in org.apache.hadoop.fs">Path</a>&nbsp;path)</code>
<div class="block">Gets the ACL of a file or directory.</div></td>
</tr>
</tbody>
</table>

<li class="blockList"><a name="org.apache.hadoop.fs.adl">
<!--   -->
</a>
<h3>Uses of <a href="../../../../../../org/apache/hadoop/fs/permission/AclStatus.html" title="class in org.apache.hadoop.fs.permission">AclStatus</a> in <a href="../../../../../../org/apache/hadoop/fs/adl/package-summary.html">org.apache.hadoop.fs.adl</a></h3>
<table border="0" cellpadding="3" cellspacing="0" summary="Use table, listing methods, and an explanation">
<caption><span>Methods in <a href="../../../../../../org/apache/hadoop/fs/adl/package-summary.html">org.apache.hadoop.fs.adl</a> that return <a href="../../../../../../org/apache/hadoop/fs/permission/AclStatus.html" title="class in org.apache.hadoop.fs.permission">AclStatus</a></span><span class="tabEnd"></span></caption>
<tr>
<th class="colFirst" scope="col">Modifier and Type</th>
<th class="colLast" scope="col">Method and Description</th>
</tr>
<tbody>
<tr class="altColor">
<td class="colFirst"><code><a href="../../../../../../org/apache/hadoop/fs/permission/AclStatus.html" title="class in org.apache.hadoop.fs.permission">AclStatus</a></code></td>
<td class="colLast"><span class="strong">AdlFileSystem.</span><code><strong><a href="../../../../../../org/apache/hadoop/fs/adl/AdlFileSystem.html#getAclStatus(org.apache.hadoop.fs.Path)">getAclStatus</a></strong>(<a href="../../../../../../org/apache/hadoop/fs/Path.html" title="class in org.apache.hadoop.fs">Path</a>&nbsp;path)</code>
<div class="block">Gets the ACL of a file or directory.</div></td>
</tr>
</tbody>
</table>
<h3>Uses of <a href="../../../../../../org/apache/hadoop/fs/permission/AclStatus.html" title="class in org.apache.hadoop.fs.permission">AclStatus</a> in <a href="../../../../../../org/apache/hadoop/fs/adl/package-summary.html">org.apache.hadoop.fs.adl</a></h3>
<table border="0" cellpadding="3" cellspacing="0" summary="Use table, listing methods, and an explanation">
<caption><span>Methods in <a href="../../../../../../org/apache/hadoop/fs/adl/package-summary.html">org.apache.hadoop.fs.adl</a> that return <a href="../../../../../../org/apache/hadoop/fs/permission/AclStatus.html" title="class in org.apache.hadoop.fs.permission">AclStatus</a></span><span class="tabEnd"></span></caption>
<tr>
<th class="colFirst" scope="col">Modifier and Type</th>
<th class="colLast" scope="col">Method and Description</th>
</tr>
<tbody>
<tr class="altColor">
<td class="colFirst"><code><a href="../../../../../../org/apache/hadoop/fs/permission/AclStatus.html" title="class in org.apache.hadoop.fs.permission">AclStatus</a></code></td>
<td class="colLast"><span class="strong">AdlFileSystem.</span><code><strong><a href="../../../../../../org/apache/hadoop/fs/adl/AdlFileSystem.html#getAclStatus(org.apache.hadoop.fs.Path)">getAclStatus</a></strong>(<a href="../../../../../../org/apache/hadoop/fs/Path.html" title="class in org.apache.hadoop.fs">Path</a>&nbsp;path)</code>
<div class="block">Gets the ACL of a file or directory.</div></td>
</tr>
</tbody>
</table>
<table>
<thead>
<tr>
<th>Modifier and Type</th>
<th>Method and Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ViewFs.getAclStatus(path)</td>
</tr>
<tr>
<td></td>
<td>ViewFileSystem.getAclStatus(path)</td>
</tr>
</tbody>
</table>
<div class="header">
<h2 title="Uses of Class org.apache.hadoop.fs.permission.FsAction" class="title">Uses of Class<br>org.apache.hadoop.fs.permission.FsAction</h2>
</div>

<div class="classUseContainer">
<ul class="blockList">
<li class="blockList">
<table border="0" cellpadding="3" cellspacing="0" summary="Use table, listing packages, and an explanation">
<caption><span>Packages that use <a href="../../../../../../org/apache/hadoop/fs/permission/FsAction.html" title="enum in org.apache.hadoop.fs.permission">FsAction</a></span><span class="tabEnd">&nbsp;</span></caption>
<tr>
<th class="colFirst" scope="col">Package</th>
<th class="colLast" scope="col">Description</th>
</tr>
<tbody>
<tr class="altColor">
<td class="colFirst"><a href="#org.apache.hadoop.fs">org.apache.hadoop.fs</a></td>
<td class="colLast">
<div class="block">An abstract file system API.</div>
</td>
</tr>
<tr class="rowColor">
<td class="colFirst"><a href="#org.apache.hadoop.fs.adl">org.apache.hadoop.fs.adl</a></td>
<td class="colLast">
<div class="block">Supporting classes for metrics instrumentation.</div>
</td>
</tr>
<tr class="altColor">
<td class="colFirst"><a href="#org.apache.hadoop.fs.permission">org.apache.hadoop.fs.permission</a></td>
<td class="colLast">
<div class="block">This package provides support for HDFS permission and ACL.</div>
</td>
</tr>
<tr class="rowColor">
<td class="colFirst"><a href="#org.apache.hadoop.fs.viewfs">org.apache.hadoop.fs.viewfs</a></td>
<td class="colLast"></td>
</tr>
</tbody>
</table>
</li>
</ul></li>
</ul>
</div>
<table>
<thead>
<tr>
<th>Modifier and Type</th>
<th>Method and Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>void</td>
<td>FilterFileSystem.access(Path, FsAction)</td>
</tr>
<tr>
<td>void</td>
<td>FileContext.access(Path, FsAction) Checks if the user can access a path.</td>
</tr>
<tr>
<td>void</td>
<td>AbstractFileSystem.access(Path, FsAction) The specification of this method matches that of FileContext.access(Path, FsAction) except that an UnresolvedLinkException may be thrown if a symlink is encountered in the path.</td>
</tr>
</tbody>
</table>
null
<table>
<thead>
<tr>
<th>Modifier and Type</th>
<th>Method and Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>FsAction</code></td>
<td><code>and(FsAction that)</code></td>
</tr>
<tr>
<td></td>
<td>AND operation</td>
</tr>
<tr>
<td></td>
<td><code>getEffectivePermission(AclEntry)</code></td>
</tr>
<tr>
<td></td>
<td>Get the effective permission for the AclEntry</td>
</tr>
<tr>
<td></td>
<td><code>getEffectivePermission(AclEntry, FsPermission)</code></td>
</tr>
<tr>
<td></td>
<td>Get the effective permission for the AclEntry</td>
</tr>
<tr>
<td></td>
<td><code>getFsAction(String)</code></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### FsAction enum for String representation of permissions

<table>
<thead>
<tr>
<th>Method</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>getGroupAction()</code></td>
<td>Return group <code>FsAction</code></td>
</tr>
<tr>
<td><code>getOtherAction()</code></td>
<td>Return other <code>FsAction</code></td>
</tr>
<tr>
<td><code>getPermission()</code></td>
<td>Returns the set of permissions in the ACL entry.</td>
</tr>
<tr>
<td><code>getUserAction()</code></td>
<td>Return user <code>FsAction</code></td>
</tr>
</tbody>
</table>

### String representation of permissions

- `permission`<br>
- `getGroupAction()`<br>
- `getOtherAction()`<br>
- `getPermission()`<br>
- `getUserAction()`
<table>
<thead>
<tr>
<th>Modifier and Type</th>
<th>Method and Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>static</td>
<td>static</td>
</tr>
<tr>
<td>static</td>
<td>static</td>
</tr>
</tbody>
</table>

- **and**: `FsAction.and(FsAction that)`
  - AND operation.

- **or**: `FsAction.or(FsAction that)`
  - OR operation.

- **valueOf**: `FsAction.valueOf(String name)`

- **values**: `FsAction[] values()`
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```
<table>
<thead>
<tr>
<th>Constructor and Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Constructor and Description</td>
</tr>
<tr>
<td>Constructor and Description</td>
</tr>
</tbody>
</table>

```
on.FsPermission,%20org.apache.hadoop.fs.permission.FsAction,%20org.apache.hadoop.fs.permission.FsAction,%20bo
tolean)%20FsPermission</a>&nbsp;</td>
<tr><td class="altColor"><code><strong>void</strong>(<a href="../../../../../../org/apache/hadoop/fs/permission/FsPermission.html" title="enum in org.apache.hadoop.fs.permission">FsPermission</a>&nbsp;u,
FsPermission&nbsp;g,
FsPermission&nbsp;o,
boolean&nbsp;sb)</code>&nbsp;</td>
</tr>
</tbody>
</table>
</li>
<li class="blockList"><a name="org.apache.hadoop.fs.viewfs">
<!--   -->
</a><h3>Uses of <a href="../../../../../../org/apache/hadoop/fs/permission/FsAction.html" title="enum in org.apache.hadoop.fs.permission">FsAction</a> in <a href="../../../../../../org/apache/hadoop/fs/viewfs/package-summary.html">org.apache.hadoop.fs.viewfs</a></h3>
<table border="0" cellpadding="3" cellspacing="0" summary="Use table, listing methods, and an explanation">
<caption><span>Methods in <a href="../../../../../../org/apache/hadoop/fs/viewfs/package-summary.html">org.apache.hadoop.fs.viewfs</a> with parameters of type <a href="../../../../../../org/apache/hadoop/fs/permission/FsAction.html" title="enum in org.apache.hadoop.fs.permission">FsAction</a></span><span class="tabEnd">&nbsp;</span></caption>
<tr><th class="colFirst"><code>Modifier and Type</code></th><th class="colLast"><code>Method and Description</code></th></tr>
<tbody><tr class="altColor">
<td class="colFirst"><code>void</code></td>
<td class="colLast"><strong>ViewFs</strong>.<code>access</code>(<a href="../../../../../../org/apache/hadoop/fs/Path.html" title="class in org.apache.hadoop.fs">Path</a>&nbsp;path,
<a href="../../../../../../org/apache/hadoop/fs/permission/FsAction.html" title="enum in org.apache.hadoop.fs.permission">FsAction</a>&nbsp;mode)</td>
</tr>
<tr class="rowColor">
<td class="colFirst"><code>void</code></td>
<td class="colLast"><strong>ViewFileSystem</strong>.<code>access</code>(<a href="../../../../../../org/apache/hadoop/fs/Path.html" title="class in org.apache.hadoop.fs">Path</a>&nbsp;path,
<a href="../../../../../../org/apache/hadoop/fs/permission/FsAction.html" title="enum in org.apache.hadoop.fs.permission">FsAction</a>&nbsp;mode)</td>
</tr>
</tbody>
</table>
Open Source Used In Kinetic for Cities 4.0.0.0

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<!-- --------- START OF BOTTOM NAVBAR --------- -->

<div class="bottomNav"><a name="navbar_bottom">

<!-- --></a><a href="#skip-navbar_bottom" title="Skip navigation links"></a><a name="navbar_bottom_firstrow">

<!-- --></a>

<a name="navbar_bottom">

<ul class="navList" title="Navigation">

<li><a href="../../../../../../overview-summary.html">Overview</a></li>

<li><a href="../package-summary.html">Package</a></li>

<li><a href="../../../../../../org/apache/hadoop/fs/permission/FsAction.html" title="enum in org.apache.hadoop.fs.permission">Class</a></li>

<li class="navBarCell1Rev">Use</li>

<li><a href="../../../../../../overview-tree.html">Tree</a></li>

<li><a href="../../../../../../deprecated-list.html">Deprecated</a></li>

<li><a href="../../../../../../index-all.html">Index</a></li>

<li><a href="../../../../../../help-doc.html">Help</a></li>

</ul>

</div>

<div class="subNav">

<ul class="navList">

<li>Prev</li>

<li>Next</li>

</ul>

<ul class="navList">

<li><a href="../../../../../../index.html?org/apache/hadoop/fs/permission/class-use/FsAction.html" target="_top">Frames</a></li>

<li><a href="FsAction.html" target="_top">No Frames</a></li>

</ul>

<ul class="navList id="allclasses_navbar_bottom">

<li><a href="../../../../../../allclasses-noframe.html">All Classes</a></li>

</ul>

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allClassesLink = document.getElementById("allclasses_navbar_bottom");
if(window==top) {
    allClassesLink.style.display = "block";
}
else {
    allClassesLink.style.display = "none";
}
//--></script>

</div>
uses of class org.apache.hadoop.fs.permission.FsPermission

Packages that use org.apache.hadoop.fs.permission.FsPermission

Package Description

org.apache.hadoop.fs

org.apache.hadoop.fs.permission.FsPermission

Package org.apache.hadoop.fs.permission.FsPermission
<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>org.apache.hadoop.fs.adl</code></td>
<td>An abstract file system API.</td>
</tr>
<tr>
<td><code>org.apache.hadoop.fs.azure</code></td>
<td>A distributed implementation of <code>FileSystem</code> for reading and writing files on Azure Block Storage.</td>
</tr>
<tr>
<td><code>org.apache.hadoop.fs.ftp</code></td>
<td>A distributed, block-based implementation of <code>FileSystem</code> that uses Amazon S3 as a backing store.</td>
</tr>
<tr>
<td><code>org.apache.hadoop.fs.permission</code></td>
<td>This package provides support for HDFS permission and ACL.</td>
</tr>
<tr>
<td><code>org.apache.hadoop.fs.s3</code></td>
<td>A distributed, block-based implementation of <code>FileSystem</code> that uses Amazon S3 as a backing store.</td>
</tr>
<tr>
<td><code>org.apache.hadoop.fs.s3native</code></td>
<td>A distributed implementation of <code>FileSystem</code> for reading and writing files on Amazon S3.</td>
</tr>
</tbody>
</table>
Uses of `<a href="/org/apache/hadoop/fs/permission/FsPermission.html" title="class in org.apache.hadoop.fs.permission">FsPermission</a>`

<table>
<thead>
<tr>
<th>Modifier and Type</th>
<th>Field and Description</th>
</tr>
</thead>
</table>
| static `FsPermission` | `<strong> FileContext.DEFAULT_PERM</strong>`
| 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. |

| static `FsPermission` | `<strong> FileContext.DIR_DEFAULT_PERM</strong>`
| Default permission for directory |

---

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<table>
<thead>
<tr>
<th>Modifier and Type</th>
<th>Method and Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>static</td>
<td><code>FSDataOutputStream</code></td>
</tr>
<tr>
<td><code>FileContext</code></td>
<td><code>getUMask()</code></td>
</tr>
<tr>
<td><code>FileStatus</code></td>
<td><code>getPermission()</code></td>
</tr>
</tbody>
</table>

Default permission for file.
<table>
<thead>
<tr>
<th>Class/Method</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FileSystem.create</td>
<td>create a file with the provided permission. The permission of the file is set to be the provided permission as in setPermission, not permission &amp; ~ umask. It is implemented using two RPCs.</td>
</tr>
<tr>
<td>FilterFileSystem.create</td>
<td></td>
</tr>
<tr>
<td>RawLocalFileSystem.create</td>
<td></td>
</tr>
<tr>
<td>Method</td>
<td>Description</td>
</tr>
<tr>
<td>--------</td>
<td>-------------</td>
</tr>
<tr>
<td><code>ChecksumFileSystem.create(Path f, FsPermission permission, boolean overwrite, int bufferSize, short replication, long blockSize, Progressable progress)</code></td>
<td>Create an FSDataOutputStream at the indicated Path with write-progress reporting.</td>
</tr>
<tr>
<td><code>FileSystem.create(Path f, FsPermission permission, boolean overwrite, int bufferSize, short replication, long blockSize, Progressable progress)</code></td>
<td>Create an FSDataOutputStream at the indicated Path with write-progress reporting.</td>
</tr>
</tbody>
</table>
org.apache.hadoop.fs.permission">FsPermission</a>&nbsp;permission,
   &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbs...
Create an FSDataOutputStream at the indicated Path with a custom checksum option:

```java
```

The specification of this method matches that of `AbstractFileSystem.create(Path, EnumSet, Options.CreateOpts...)` except that the opts have been declared explicitly.
short&nbsp;replication,
long&nbsp;blockSize,
<a href="../../../../../../org/apache/hadoop/util/Progressable.html" title="interface in org.apache.hadoop.util">Progressable</a>&nbsp;</td>
</tr>
<tr class="altColor">
<td class="colFirst"><code><a href="../../../../../../org/apache/hadoop/fs/FSDataOutputStream.html" title="class in org.apache.hadoop.fs">FSDataOutputStream</a></code></td>
<td class="colLast"><span class="strong">ChecksumFileSystem.</span><code><strong><a href="../../../../../../org/apache/hadoop/fs/ChecksumFileSystem.html#createNonRecursive(org.apache.hadoop.fs.Path,%20org.apache.hadoop.fs.permission.FsPermission,%20boolean,%20int,%20short,%20long,%20org.apache.hadoop.util.Progressable)">createNonRecursive</a></strong>(<a href="../../../../../../org/apache/hadoop/fs/Path.html" title="class in org.apache.hadoop.fs">Path</a>&nbsp;f, <a href="../../../../../../org/apache/hadoop/fs/permission/FsPermission.html" title="class in org.apache.hadoop.fs.permission">FsPermission</a>&nbsp;permission, boolean&nbsp;overwrite, int&nbsp;bufferSize, short&nbsp;replication, long&nbsp;blockSize, <a href="../../../../../../org/apache/hadoop/util/Progressable.html" title="interface in org.apache.hadoop.util">Progressable</a>&nbsp;progress)</code></td>
</tr>
<tr class="rowColor">
<td class="colFirst"><code><a href="../../../../../../org/apache/hadoop/fs/FSDataOutputStream.html" title="class in org.apache.hadoop.fs">FSDataOutputStream</a></code></td>
<td class="colLast"><span class="strong">FileSystem.</span><code><strong><a href="../../../../../../org/apache/hadoop/fs/FileSystem.html#createNonRecursive(org.apache.hadoop.fs.Path,%20org.apache.hadoop.fs.permission.FsPermission,%20boolean,%20int,%20short,%20long,%20org.apache.hadoop.util.Progressable)">createNonRecursive</a></strong>(<a href="../../../../../../org/apache/hadoop/fs/Path.html" title="class in org.apache.hadoop.fs">Path</a>&nbsp;f, <a href="../../../../../../org/apache/hadoop/fs/permission/FsPermission.html" title="class in org.apache.hadoop.fs.permission">FsPermission</a>&nbsp;permission, boolean&nbsp;overwrite, int&nbsp;bufferSize, short&nbsp;replication, long&nbsp;blockSize, <a href="../../../../../../org/apache/hadoop/util/Progressable.html" title="interface in org.apache.hadoop.util">Progressable</a>&nbsp;progress)</code>
<div class="block"><strong>Deprecated.</strong>&nbsp;<div class="block"><i>API only for 0.20-append</i></div></div>
</td>
</tr>
<tr class="altColor">
<td class="colFirst"><code><a href="../../../../../../org/apache/hadoop/fs/FSDataOutputStream.html" title="class in org.apache.hadoop.fs">FSDataOutputStream</a></code></td>
<td class="colLast"><span class="strong">FilterFileSystem.</span><code><strong><a href="../../../../../../org/apache/hadoop/fs/FilterFileSystem.html#createNonRecursive(org.apache.hadoop.fs.Path,%20org.apache.hadoop.fs.permission.FsPermission,%20boolean,%20int,%20short,%20long,%20org.apache.hadoop.util.Progressable)">createNonRecursive</a></strong>(<a href="../../../../../../org/apache/hadoop/fs/Path.html" title="class in org.apache.hadoop.fs">Path</a>&nbsp;f, <a href="../../../../../../org/apache/hadoop/fs/permission/FsPermission.html" title="class in org.apache.hadoop.fs.permission">FsPermission</a>&nbsp;permission, boolean&nbsp;overwrite, int&nbsp;bufferSize, short&nbsp;replication, long&nbsp;blockSize, <a href="../../../../../../org/apache/hadoop/util/Progressable.html" title="interface in org.apache.hadoop.util">Progressable</a>&nbsp;progress)</code></td>
</tr>

<dt class="colFirst"><code><a href="../../../../../../org/apache/hadoop/fs/FSDataOutputStream.html" title="class in org.apache.hadoop.fs">FSDataOutputStream</a></code></dt>
<dt class="colLast"><span class="strong">FSDataOutputStream.</span><code><strong><a href="../../../../../../org/apache/hadoop/fs/FSDataOutputStream.html">FSDataOutputStream</a></strong>(&nbsp;<a href="../../../../../../org/apache/hadoop/fs/Path.html" title="class in org.apache.hadoop.fs">Path</a>&nbsp;f, <a href="../../../../../../org/apache/hadoop/fs/permission/FsPermission.html" title="class in org.apache.hadoop.fs.permission">FsPermission</a>&nbsp;permission, boolean&nbsp;overwrite, int&nbsp;bufferSize, short&nbsp;replication, long&nbsp;blockSize, <a href="../../../../../../org/apache/hadoop/util/Progressable.html" title="interface in org.apache.hadoop.util">Progressable</a>&nbsp;progress)</code>
</dt>
</div>
org.apache.hadoop.fs.permission.FsPermission,%20java.util.EnumSet,%20int,%20short,%20long,%20org.apache.ha
doop.util.Progressable">createNonRecursive</a></strong>()</code>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbs
org.apache.hadoop.fs.permission">FsPermission</a>&nbsp;permission,<br>
     &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&n...
The specification of this method matches that of

```java
FileContext.mkdir(Path, FsPermission, boolean)
```

except that the Path
f must be fully qualified and the permission is absolute (i.e.:

```java
FileSystem.mkdirs(Path, FsPermission)
```

create a directory with the provided permission
The permission of the directory is set to be the provided permission as in

```java
setPermission, not permission&~umask
```

The permission of the directory is set to be the provided permission as in

```java
setPermission, not permission&~umask
```

```java
FileContext.mkdir(Path, FsPermission, boolean)
```

create a directory with the provided permission
The permission of the directory is set to be the provided permission as in

```java
setPermission, not permission&~umask
```

```java
FileSystem.mkdirs(Path, FsPermission)
```

create a directory with the provided permission
The permission of the directory is set to be the provided permission as in

```java
setPermission, not permission&~umask
```
Make the given file and all non-existent parents into directories.

protected boolean mkOneDirWithMode(Path p, FsPermission permission)

protected FSDataOutputStream primitiveCreate(Path f, FsPermission absolutePermission, EnumSet<CreateFlag> flag, int bufferSize, short replication, long blockSize, Progressable progress, ChecksumOpt checksumOpt)

protected FSDataOutputStream primitiveCreate(Path f, FsPermission absolutePermission, File p2f, FsPermission permission)

protected FSDataOutputStream primitiveCreate(Path f, FsPermission absolutePermission, Progressable progress, ChecksumOpt checksumOpt)

protected boolean mkOneDirWithMode(Path f, FsPermission permission)

protected FSDataOutputStream primitiveCreate(Path f, FsPermission absolutePermission, File p2f, FsPermission permission)
<a href="http://download.oracle.com/javase/7/docs/api/java/util/EnumSet.html?is-external=true" title="class or interface in java.util">EnumSet</a>&nbsp;flag,
int&nbsp;bufferSize,
short&nbsp;replication,
long&nbsp;blockSize,
<a href="../../../../../../org/apache/hadoop/fs/CreateFlag.html" title="enum in org.apache.hadoop.fs">CreateFlag</a>&nbsp;flag,&nbsp;flag,
int&nbsp;bufferSize,
short&nbsp;replication,
long&nbsp;blockSize,
<a href="../../../../../../org/apache/hadoop/fs/CreateFlag.html?is-external=true" title="enum in org.apache.hadoop.fs">CreateFlag</a>&nbsp;flag,&nbsp;flag,
int&nbsp;bufferSize,
short&nbsp;replication,
long&nbsp;blockSize,
<a href="../../../../../../org/apache/hadoop/fs/CreateFlag.html" title="enum in org.apache.hadoop.fs">CreateFlag</a>&nbsp;flag,&nbsp;flag,
int&nbsp;bufferSize,
short&nbsp;replication,
long&nbsp;blockSize,
<a href="../../../../../../org/apache/hadoop/fs/CreateFlag.html?is-external=true" title="enum in org.apache.hadoop.fs">CreateFlag</a>&nbsp;flag,&nbsp;flag,
int&nbsp;bufferSize,
short&nbsp;replication,
long&nbsp;blockSize,
<a href="../../../../../../org/apache/hadoop/fs/CreateFlag.html" title="enum in org.apache.hadoop.fs">CreateFlag</a>&nbsp;flag,&nbsp;flag,
int&nbsp;bufferSize,
short&nbsp;replication,
long&nbsp;blockSize,
<a href="../../../../../../org/apache/hadoop/fs/CreateFlag.html?is-external=true" title="enum in org.apache.hadoop.fs">CreateFlag</a>&nbsp;flag,&nbsp;flag,
int&nbsp;bufferSize,
short&nbsp;replication,
long&nbsp;blockSize,
<a href="../../../../../../org/apache/hadoop/fs/CreateFlag.html" title="enum in org.apache.hadoop.fs">CreateFlag</a>&nbsp;flag,&nbsp;flag,
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short&nbsp;replication,
long&nbsp;blockSize,
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int&nbsp;bufferSize,
short&nbsp;replication,
long&nbsp;blockSize,
<a href="../../../../../../org/apache/hadoop/fs/CreateFlag.html" title="enum in org.apache.hadoop.fs">CreateFlag</a>&nbsp;flag,&nbsp;flag,
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int&nbsp;bufferSize,
short&nbsp;replication,
long&nbsp;blockSize,
<a href="../../../../../../org/apache/hadoop/fs/CreateFlag.html" title="enum in org.apache.hadoop.fs">CreateFlag</a>&nbsp;flag,&nbsp;flag,
int&nbsp;bufferSize,
short&nbsp;replication,
long&nbsp;blockSize,
Set permissions to the required value.

<table>
<thead>
<tr>
<th>Method</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>setPermission(File f, FsPermission permission)</code></td>
<td>Set permissions to the required value.</td>
</tr>
<tr>
<td><code>setPermission(FsPermission permission)</code></td>
<td>Sets permission.</td>
</tr>
<tr>
<td><code>setPermission(Path p, FsPermission permission)</code></td>
<td>Use the command chmod to set permission.</td>
</tr>
<tr>
<td><code>setPermission(Path src, FsPermission permission)</code></td>
<td></td>
</tr>
</tbody>
</table>

Use the command `chmod` to set permission.
FileContext.<code class="inner-link" href="/doc-files/api-org/apache/hadoop/fs/FileContext.html#setPermission(org.apache.hadoop.fs.Path,org.apache.hadoop.fs.permission.FsPermission)"">setPermission</code>(Path f, FsPermission permission)<div class="block">Set permission of a path.</div></td></tr></tbody></table>
<table border="0" cellpadding="3" cellspacing="0" summary="Use table, listing methods, and an explanation">
<tr class="altColor">
<td class="colFirst"><code class="inner-link" href="/doc-files/api-org/apache/hadoop/fs/AbstractFileSystem.html#setPermission(org.apache.hadoop.fs.Path,org.apache.hadoop.fs.permission.FsPermission)"">setPermission</code>(Path f, FsPermission permission)<div class="block">The specification of this method matches that of <code class="inner-link" href="/doc-files/api-org/apache/hadoop/fs/FileContext.html#setPermission(org.apache.hadoop.fs.Path,org.apache.hadoop.fs.permission.FsPermission)"">FileContext.setPermission(Path, FsPermission)</code> except that Path f must be for this file system.</div></td></tr></tbody></table>
<table border="0" cellpadding="3" cellspacing="0" summary="Use table, listing methods, and an explanation">
<tr class="rowColor">
<td class="colFirst"><code class="inner-link" href="/doc-files/api-org/apache/hadoop/fs/FileSystem.html#setPermission(org.apache.hadoop.fs.Path,org.apache.hadoop.fs.permission.FsPermission)"">setPermission</code>(Path p, FsPermission permission)<div class="block">Set permission of a path.</div></td></tr></tbody></table>
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<tr class="altColor">
<td class="colFirst"><code class="inner-link" href="/doc-files/api-org/apache/hadoop/fs/FileContext.html#setUMask(org.apache.hadoop.fs.permission.FsPermission)"">setUMask</code>(FsPermission newUmask)<div class="block">Set umask to the supplied parameter.</div></td></tr></tbody></table>
</div>
Constructors in org.apache.hadoop.fs with parameters of type FsPermission

<table>
<thead>
<tr>
<th>Constructor</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FileStatus(long length, boolean isdir, int block_replication, long blocksize, long modification_time, long access_time, FsPermission permission, String owner, String group, Path path)</td>
<td>Constructor for file systems on which symbolic links are not supported</td>
</tr>
<tr>
<td>FileStatus(long length, boolean isdir, int block_replication, long blocksize, long modification_time, long access_time, FsPermission permission, String owner, String group, Path symlink, Path path)</td>
<td>Constructor for file systems on which symbolic links are supported</td>
</tr>
</tbody>
</table>
<code><strong>Path</strong>(long&nbsp;length,
  boolean&nbsp;isdir,
  int&nbsp;block_replication,
  long&nbsp;blocksize,
  long&nbsp;modification_time,
  long&nbsp;access_time,
  &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbs
Create call semantic is handled differently in case of ADL.

Deprecated.

API only for 0.20-append.
<a href="../../../../../../org/apache/hadoop/fs/permission/FsPermission.html" title="class in org.apache.hadoop.fs.permission">FsPermission</a>&nbsp;permission</code>

Make the given file and all non-existent parents into directories.</div>
</td>
</tr>
<tr class="rowColor">
<td class="colFirst"><code>void</code></td>
<td class="colLast"><span class="strong">AdlFileSystem.</span><code><strong><a href="../../../../../../org/apache/hadoop/fs/adl/AdlFileSystem.html#setPermission(org.apache.hadoop.fs.Path,%20org.apache.hadoop.fs.permission.FsPermission)">setPermission</a></strong>(<a href="../../../../../../org/apache/hadoop/fs/Path.html" title="class in org.apache.hadoop.fs">Path</a>&nbsp;path,
<a href="../../../../../../org/apache/hadoop/fs/permission/FsPermission.html" title="class in org.apache.hadoop.fs.permission">FsPermission</a>&nbsp;permission)</code>

Set permission of a path.</td>
</tr>
</tbody>
</table>

<h3>Uses of <a href="../../../../../../org/apache/hadoop/fs/permission/FsPermission.html" title="class in org.apache.hadoop.fs.permission">FsPermission</a> in <a href="../../../../../../org/apache/hadoop/fs/azure/package-summary.html">org.apache.hadoop.fs.azure</a></h3>
<table border="0" cellpadding="3" cellspacing="0" summary="Use table, listing methods, and an explanation">
<caption><span>Methods in <a href="../../../../../../org/apache/hadoop/fs/azure/package-summary.html">org.apache.hadoop.fs.azure</a> with parameters of type <a href="../../../../../../org/apache/hadoop/fs/permission/FsPermission.html" title="class in org.apache.hadoop.fs.permission">FsPermission</a></span><span class="tabEnd"></span></caption>
<tbody>
<tr>
<th class="colFirst" scope="col">Modifier and Type</th>
<th class="colLast" scope="col">Method and Description</th>
</tr>
<td class="colFirst"><code>FSDataOutputStream</code></td>
<td class="colLast"><span class="strong">NativeAzureFileSystem.</span><code><strong><a href="../../../../../../org/apache/hadoop/fs/azure/NativeAzureFileSystem.html#create(org.apache.hadoop.fs.Path,%20org.apache.hadoop.fs.permission.FsPermission,%20boolean,%20int,%20short,%20long,%20org.apache.hadoop.util.Progressable)">create</a></strong>(<a href="../../../../../../org/apache/hadoop/fs/Path.html" title="class in org.apache.hadoop.fs">Path</a>&nbsp;f,
<a href="../../../../../../org/apache/hadoop/fs/permission/FsPermission.html" title="class in org.apache.hadoop.fs.permission">FsPermission</a>&nbsp;permission,
boolean overwrite,
int&nbsp;bufferSize,
<table>
<thead>
<tr>
<th>Method</th>
<th>Description</th>
</tr>
</thead>
</table>
| `createNonRecursive(Path f, FsPermission permission, boolean overwrite, int bufferSize, short replication, long blockSize)` | NativeAzureFileSystem.
| `createNonRecursive(Path f, FsPermission permission, EnumSet<CreateFlag> flags, int bufferSize, short replication, long blockSize)` | NativeAzureFileSystem.
| `mkdirs(Path f, FsPermission permission)` | NativeAzureFileSystem.
<table>
<thead>
<tr>
<th>Modifier and Type</th>
<th>Method and Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>boolean</td>
<td><code>FsPermission</code></td>
</tr>
<tr>
<td>boolean</td>
<td><code>NativeAzureFileSystem.mkdirs(Path, FsPermission, boolean)</code></td>
</tr>
<tr>
<td>void</td>
<td><code>NativeAzureFileSystem.setPermission(Path, FsPermission)</code></td>
</tr>
<tr>
<td>FSDataOutputStream</td>
<td><code>FTPFileSystem.create(Path, FsPermission, boolean, int, short, long, Progressable)</code></td>
</tr>
</tbody>
</table>

### Uses of `FsPermission` in `org.apache.hadoop.fs.ftp` package

<table>
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<tr>
<th>Method</th>
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</tr>
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<tbody>
<tr>
<td>boolean</td>
<td><code>FsPermission</code> in <code>org.apache.hadoop.fs.ftp</code> package summary.html</td>
</tr>
<tr>
<td>Modifier and Type</td>
<td>Method and Description</td>
</tr>
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<td>-------------------</td>
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<td><code>FTPFileSystem.create(Path, FsPermission, boolean, int, short, long, Progressable)</code></td>
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### Uses of `FsPermission` in `org.apache.hadoop.fs.permission` package summary.html

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<td>boolean</td>
<td><code>FsPermission</code> in <code>org.apache.hadoop.fs.permission</code> package summary.html</td>
</tr>
<tr>
<td>Methods in <code>org.apache.hadoop.fs.permission</code> with parameters of type <code>FsPermission</code></td>
<td><code>org.apache.hadoop.fs.permission</code> package summary.html</td>
</tr>
<tr>
<td>Modifier and Type</td>
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<td>-------------------</td>
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<td>FSDataOutputStream</td>
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### Uses of `FsPermission` in `org.apache.hadoop.fs.ftp` package

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<tr>
<td>boolean</td>
<td><code>NativeAzureFileSystem.mkdirs(Path, FsPermission, boolean)</code></td>
</tr>
<tr>
<td>void</td>
<td><code>NativeAzureFileSystem.setPermission(Path, FsPermission)</code></td>
</tr>
<tr>
<td>FSDataOutputStream</td>
<td><code>FTPFileSystem.create(Path, FsPermission, boolean, int, short, long, Progressable)</code></td>
</tr>
</tbody>
</table>
org.apache.hadoop.fs">Path</a>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbs...
<table>
<thead>
<tr>
<th>Modifier and Type</th>
<th>Method and Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>&lt;code&gt;</code></td>
<td><code>FsPermission.applyUMask(FsPermission umask)</code></td>
</tr>
<tr>
<td><code>static &lt;code&gt;</code></td>
<td><code>FsCreateModes.applyUMask(FsPermission mode, FsPermission umask)</code></td>
</tr>
<tr>
<td><code>static</code></td>
<td><code>FsPermission.createImmutable(short permission)</code></td>
</tr>
<tr>
<td><code>static &lt;code&gt;</code></td>
<td><code>FsPermission.createImmutable(short) createImmutable()</code></td>
</tr>
<tr>
<td><code>static &lt;code&gt;</code></td>
<td><code>FsPermission.createImmutable()</code></td>
</tr>
</tbody>
</table>

Methods in `org.apache.hadoop.fs.permission` that return `FsPermission`:

- `applyUMask(FsPermission umask)`
- `applyUMask(FsPermission mode, FsPermission umask)`
- `createImmutable(short)`
- `createImmutable()`

These methods are used to manipulate permissions and umasks for file system operations in Apache Hadoop.
<table>
<thead>
<tr>
<th>Method</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>getCachePoolDefault()</code></td>
<td>Get the default permission for cache pools.</td>
</tr>
<tr>
<td><code>getDefault()</code></td>
<td>Get the default permission for directory and symlink.</td>
</tr>
<tr>
<td><code>getDirDefault()</code></td>
<td>Get the default permission for directory.</td>
</tr>
<tr>
<td><code>getFileDefault()</code></td>
<td>Get the default permission for file.</td>
</tr>
<tr>
<td><code>getMasked()</code></td>
<td>Get masked permission if exists.</td>
</tr>
<tr>
<td>Class</td>
<td>Method</td>
</tr>
<tr>
<td>-------</td>
<td>--------</td>
</tr>
<tr>
<td>FsPermission</td>
<td>getPermission()</td>
</tr>
<tr>
<td>FsPermission</td>
<td>getUMask(Configuration)</td>
</tr>
<tr>
<td>FsCreateModes</td>
<td>getUnmasked()</td>
</tr>
<tr>
<td>FsPermission</td>
<td>read(DataInput)</td>
</tr>
</tbody>
</table>

The UMASK_LABEL config param has umask value that is either symbolic or octal.
<table>
<thead>
<tr>
<th>Modifier and Type</th>
<th>Method and Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>static String</td>
<td>FsPermission.valueOf()</td>
</tr>
<tr>
<td>static String</td>
<td>FsPermission.valueOf()</td>
</tr>
<tr>
<td>static String</td>
<td>FsPermission.valueOf()</td>
</tr>
</tbody>
</table>

Methods in org.apache.hadoop.fs.permission with parameters of type FsPermission

<table>
<thead>
<tr>
<th>Modifier and Type</th>
<th>Method and Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>static FsPermission</td>
<td>applyUMask(FsPermission umask)</td>
</tr>
<tr>
<td>static FsPermission</td>
<td>applyUMask(FsPermission mode, FsPermission umask)</td>
</tr>
<tr>
<td>static FsPermission</td>
<td>applyUMask(FsPermission FsCreateModes, FsPermission umask)</td>
</tr>
<tr>
<td>static FsPermission</td>
<td>applyUMask(FsPermission FsCreateModes, FsPermission umask)</td>
</tr>
<tr>
<td>static FsPermission</td>
<td>applyUMask(FsPermission FsCreateModes, FsPermission umask)</td>
</tr>
<tr>
<td>static FsPermission</td>
<td>applyUMask(FsPermission FsCreateModes, FsPermission umask)</td>
</tr>
<tr>
<td>Constructor and Description</td>
<td></td>
</tr>
<tr>
<td>-----------------------------</td>
<td></td>
</tr>
<tr>
<td>static FsCreateModes()</td>
<td></td>
</tr>
<tr>
<td>FsCreateModes.create(masked, unmasked)</td>
<td></td>
</tr>
<tr>
<td>FsCreateModes().create(masked, unmasked)</td>
<td></td>
</tr>
<tr>
<td>AclStatus.getEffectivePermission(entry, permArg)</td>
<td></td>
</tr>
<tr>
<td>FsPermission.setUMask(conf, umask)</td>
<td></td>
</tr>
</tbody>
</table>

Create from masked and unmasked modes.

Get the effective permission for the AclEntry.

Set the user file creation mask (umask).
Copy constructor

Methods in org.apache.hadoop.fs.s3 with parameters of type FsPermission

S3FileSystem.create(Path&lt;a href="../../../../../../org/apache/hadoop/fs/permission/FsPermission.html" title="class in org.apache.hadoop.fs.permission">FsPermission</a>&lt;&gt;, boolean, int, short, long, org.apache.hadoop.util.Progressable)
<table>
<thead>
<tr>
<th>Modifier and Type</th>
<th>Method and Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>boolean</td>
<td><code>S3FileSystem.mkdirs(Path, FsPermission)</code></td>
</tr>
<tr>
<td></td>
<td>Deprecated.</td>
</tr>
</tbody>
</table>

### Uses of `FsPermission` in `org.apache.hadoop.fs.s3native` Methods

- Package: `org.apache.hadoop.fs.s3native`

<table>
<thead>
<tr>
<th>Method</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>FSDataOutputStream create(Path f, FsPermission permission, boolean overwrite, int bufferSize, short replication, long blockSize, Progressable progress)</code></td>
<td>Create a new file or directory</td>
</tr>
</tbody>
</table>

Methods in `org.apache.hadoop.fs.s3native` with parameters of type `FsPermission`
NativeS3FileSystem.mkdirs(Path, FsPermission)
createInternal(Path f, EnumSet&lt;CreateFlag&gt; flag, FsPermission absolutePermission, int bufferSize, short replication, long blockSize, Progressable progress, org.apache.hadoop.fs.Options.ChecksumOpt checksumOpt, boolean createParent)

createNonRecursive(Path f, FsPermission permission, EnumSet&lt;CreateFlag&gt; flags, int bufferSize, short replication, long blockSize, Progressable progress)

mkdir(Path dir, FsPermission permission, boolean createParent)
<table>
<thead>
<tr>
<th>Method</th>
<th>Description</th>
</tr>
</thead>
</table>
| boolean ViewFileSystem.mkdirs(Path dir, FsPermission permission) | Creates a directory named *dir* under the given *path* with the specified *permissions*.
| void ViewFs.setPermission(Path f, FsPermission permission)      | Sets the permissions for the file or directory at the specified *path* to the given *permissions*.
| void ViewFileSystem.setPermission(Path f, FsPermission permission) | Sets the permissions for the file or directory at the specified *path* to the given *permissions*.
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*/

From 81c8270463dc30791d0118d8f3f3544684b4385b Mon Sep 17 00:00:00 2001
From: Andrew Wang <wang@apache.org>
Date: Tue, 28 Jun 2016 13:55:26 -0700
Subject: [PATCH 1692/2345] HDFS-6434. Default permission for creating file
should be 644 for WebHdfs/HttpFS. Contributed by
Wellington Chevreuil.

(cherry picked from commit c0829f449337b78ac0b995e216f7324843e74dd2)

Conflicts:

hadoop-hdfs-project/hadoop-hdfs-client/src/main/java/org/apache/hadoop/hdfs/web/resources/PermissionParam.java

Change-Id: Ifbc3198116fb76f05199f4e6ae23b35dd691e8bb
---
./datanode/web/webhdfs/ParameterParser.java | 3 +-.
./web/resources/NamenodeWebHdfsMethods.java | 8 +-.
./hadoop/hdfs/web/resources/PermissionParam.java | 40 +++++--.
./resources/TestWebHdfsCreatePermissions.java | 124 ++++++++++++++++++++
./hadoop/hdfs/web/resources/TestParam.java | 3 +-.
5 files changed, 165 insertions(+), 13 deletions(-)
create mode 100644 hadoop-hdfs-project/hadoop-hdfs/src/test/java/org/apache/hadoop/hdfs/server/namenode/web/resources/TestWebHdfsCreatePermissions.java
diff --git a/hadoop-hdfs-project/hadoop-
hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/web/webhdfs/ParameterParser.java b/hadoop-hdfs-
project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/web/webhdfs/ParameterParser.java
index 0ebf3dc..5ff3079 100644
--- a/hadoop-hdfs-project/hadoop-
hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/web/webhdfs/ParameterParser.java
+++ b/hadoop-hdfs-project/hadoop-
hdfs/src/main/java/org/apache/hadoop/hdfs/server/datanode/web/webhdfs/ParameterParser.java
@@ -99,7 +99,8 @@ short replication()
 FsPermission permission() {
- return new PermissionParam(param(PermissionParam.NAME)).getFsPermission();
+ return new PermissionParam(param(PermissionParam.NAME)).
+ getFileFsPermission();
 }

 boolean overwrite() {
 diff --git a/hadoop-hdfs-project/hadoop-
hdfs/src/main/java/org/apache/hadoop/hdfs/server/namenode/web/resources/NamenodeWebHdfsMethods.java
b/hadoop-hdfs-project/hadoop-
```java
private Response put(
    } 
    case MKDIRS:
        
    - final boolean b = np.mkdirs(fullpath, permission.getFsPermission(), true);
    + final boolean b = np.mkdirs(fullpath,
            permission.getDirFsPermission(), true);
        final String js = JsonUtil.toJsonString("boolean", b);
        return Response.ok(js).type(MediaType.APPLICATION_JSON).build();
    }
    case CREATESYMLINK:
        
    - np.createSymlink(destination.getValue(), fullpath,
        - PermissionParam.getDefaultFsPermission(), createParent.getValue());
    + PermissionParam.getDefaultSymLinkFsPermission(),
        + createParent.getValue());
        return Response.ok().type(MediaType.APPLICATION_OCTET_STREAM).build();
    }
    case RENAME:
        
    - np.setPermission(fullpath, permission.getFsPermission());
    + np.setPermission(fullpath, permission.getDirFsPermission());
        return Response.ok().type(MediaType.APPLICATION_OCTET_STREAM).build();
    }
    case SETTIMES:

diff --git a/hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/web/resources/PermissionParam.java b/hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/web/resources/PermissionParam.java
index b22b9c3..42ff69d 100644
--- a/hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/web/resources/PermissionParam.java
+++ b/hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/web/resources/PermissionParam.java
@@ -28,13 +28,27 @@
    private static final Domain DOMAIN = new Domain(NAME, 8);

    - private static final short DEFAULT_PERMISSION = 0755;
    + private static final short DEFAULT_DIR_PERMISSION = 0755;
```
- /** @return the default FsPermission. */
- public static FsPermission getDefaultFsPermission() {
-   return new FsPermission(DEFAULT_PERMISSION);

+ private static final short DEFAULT_FILE_PERMISSION = 0644;
+
+ private static final short DEFAULT_SYMLINK_PERMISSION = 0777;
+
+ /** @return the default FsPermission for directory. */
+ public static FsPermission getDefaultDirFsPermission() {
+   return new FsPermission(DEFAULT_DIR_PERMISSION);
+ }
+
+ /** @return the default FsPermission for file. */
+ public static FsPermission getDefaultFileFsPermission() {
+   return new FsPermission(DEFAULT_FILE_PERMISSION);
+ }
+
+ /** @return the default FsPermission for symlink. */
+ public static FsPermission getDefaultSymLinkFsPermission() {
+   return new FsPermission(DEFAULT_SYMLINK_PERMISSION);
+ }
+
+ /**
+  * Constructor.
+  * @param value the parameter value.
+  @ @ -57,8 +71,18 @ @ public String getName() {
+  }
+
+  /** @return the represented FsPermission. */
+  public FsPermission getFsPermission() {
+    return this.getFsPermission(DEFAULT_FILE_PERMISSION);
+  }
+
+  /** @return the represented FsPermission. */
+  public FsPermission getDirFsPermission() {
+    return this.getFsPermission(DEFAULT_DIR_PERMISSION);
+  }
+
+  private FsPermission getFsPermission(short defaultPermission){
+    final Short v = getValue();
-    return new FsPermission(v != null? v: DEFAULT_PERMISSION);
+    return new FsPermission(v != null? v: defaultPermission);
+  }
-}

\ No newline at end of file
+

---
new file mode 100644
index 0000000..68fc26f
--- /dev/null
+++ b/hadoop-hdfs-project/hadoop-hdfs/src/test/java/org/apache/hadoop/hdfs/server/namenode/web/resources/TestWebHdfsCreatePermissions.java
@@ -0,0 +1,124 @@
+/**
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+ * regarding copyright ownership. The ASF licenses this file
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+ * distributed under the License is distributed on an "AS IS" BASIS,
+ * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
+ * See the License for the specific language governing permissions and
+ * limitations under the License.
+ */
+package org.apache.hadoop.hdfs.server.namenode.web.resources;
+
+import java.net.HttpURLConnection;
+import java.net.URL;
+
+import org.apache.commons.logging.Log;
+import org.apache.commons.logging.LogFactory;
+import org.apache.hadoop.conf.Configuration;
+import org.apache.hadoop.fs.permission.FsPermission;
+import org.apache.hadoop.hdfs.DFSTestUtil;
+import org.apache.hadoop.hdfs.MiniDFSCluster;
+import org.apache.hadoop.hdfs.web.WebHdfsTestUtil;
+import org.apache.log4j.Level;
+import org.junit.After;
+import org.junit.Assert;
+import org.junit.Before;
+import org.junit.Test;
+
+/**
* Test WebHDFS files/directories creation to make sure it follows same rules
* from dfs CLI for specifying files/directories permissions.

```java
+ *
+ public class TestWebHdfsCreatePermissions {
+   static final Log LOG = LogFactory.getLog(TestWebHdfsCreatePermissions.class);
+   { 
+     DFSTestUtil.setNameNodeLogLevel(Level.ALL);
+   }
+
+   private MiniDFSCluster cluster;
+
+   @Before
+   public void initializeMiniDFSCluster() throws Exception {
+     final Configuration conf = WebHdfsTestUtil.createConf();
+     this.cluster = new MiniDFSCluster.Builder(conf).build();
+   }
+
+   @After
+   public void tearDown() throws Exception {
+     if (cluster != null) {
+       cluster.shutdown();
+     }
+   }
+
+   private void testPermissions(int expectedResponse,
+     String expectedPermission,
+     String path,
+     String... params) throws Exception {
+     final String user = System.getProperty("user.name");
+     final String uri = new StringBuilder(cluster.getHttpUri(0)).
+       append("/webhdfs/v1").
+       append(path).
+       append("?user.name=").
+       append(user).
+       append("&");
+     for (String param : params) {
+       uri.append(param).append("&");
+     }
+     LOG.info(uri.toString());
+     try {
+       URL url = new URL(uri.toString());
+       HttpURLConnection conn = (HttpURLConnection) url.openConnection();
+       conn.setRequestMethod("PUT");
+       Assert.assertEquals(expectedResponse, conn.getResponseCode());
+       NamenodeProtocols namenode = cluster.getNameNode().getRpcServer();
+       FsPermission resultingPermission = namenode.getFileInfo(path).
+         getPermission();
+     }
+   }
+ }
```
+ Assert.assertEquals(expectedPermission, resultingPermission.toString());
+ } finally {
+ cluster.shutdown();
+ }
+ }
+ }
+
+ @Test
+ public void testCreateDirNoPermissions() throws Exception {
+ testPermissions(HttpURLConnection.HTTP_OK,
+ "rwxr-xr-x",
+ "/path",
+ "op=MKDIRS");
+ }
+
+ @Test
+ public void testCreateDir777Permissions() throws Exception {
+ testPermissions(HttpURLConnection.HTTP_OK,
+ "rwxrwxrwx",
+ "/test777",
+ "op=MKDIRS&permission=777");
+ }
+
+ @Test
+ public void testCreateFileNoPermissions() throws Exception {
+ testPermissions(HttpURLConnection.HTTP_CREATED,
+ "rw-r--r--",
+ "/test-file",
+ "op=CREATE");
+ }
+
+ @Test
+ public void testCreateFile666Permissions() throws Exception {
+ testPermissions(HttpURLConnection.HTTP_CREATED,
+ "rw-rw-rw-",
+ "/test-file",
+ "op=CREATE&permission=666");
+ }
+
+ }

index a84243e..603cf37 100644
--- a/hadoop-hdfs-project/hadoop-hdfs/src/test/java/org/apache/hadoop/hdfs/web/resources/TestParam.java
+++ b/hadoop-hdfs-project/hadoop-hdfs/src/test/java/org/apache/hadoop/hdfs/web/resources/TestParam.java
@@ -164,7 +164,8 @@ public void testOwnerParam() {
  
 @Test
  public void testPermissionParam() {
+    final PermissionParam p = new PermissionParam(PermissionParam.DEFAULT);
- Assert.assertEquals(new FsPermission((short)0755), p.getFsPermission());
+ Assert.assertEquals(new FsPermission((short)0755), p.getDirFsPermission());
+ Assert.assertEquals(new FsPermission((short)0644), p.getFileFsPermission());

    new PermissionParam("0");

--
1.7.9.5
From eb2411e193e12fd06662a867f5ac74a4d846af8f Mon Sep 17 00:00:00 2001
From: Arpit Agarwal <arp@apache.org>
Date: Fri, 4 Dec 2015 15:33:09 -0800
Subject: [PATCH 1940/2345] HDFS-9214. Add missing license header

(cherry picked from commit 496c8969d420fde8f421d489237752ca65f60287)

Change-Id: I718226237d29dcf515e6b93b6939dbc68af19976
---
.../datanode/TestDataNodeReconfiguration.java      |   18 ++++++++++++++++++
1 file changed, 18 insertions(+)

diff --git a/hadoop-hdfs-project/hadoop-
hdfs/src/test/java/org/apache/hadoop/hdfs/server/datanode/TestDataNodeReconfiguration.java b/hadoop-hdfs-
project/hadoop-hdfs/src/test/java/org/apache/hadoop/hdfs/server/datanode/TestDataNodeReconfiguration.java
index edaf7ab..249b5c6 100644
--- a/hadoop-hdfs-project/hadoop-
hdfs/src/test/java/org/apache/hadoop/hdfs/server/datanode/TestDataNodeReconfiguration.java
+++ b/hadoop-hdfs-project/hadoop-
hdfs/src/test/java/org/apache/hadoop/hdfs/server/datanode/TestDataNodeReconfiguration.java
@@ -1,3 +1,21 @@
+/**
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+ */
+package org.apache.hadoop.hdfs.server.datanode;
import static
org.apache.hadoop.hdfs.DFSConfigKeys.DFS_DATANODE_BALANCE_MAX_NUM_CONCURRENT_MOVES _KEY;
--
1.7.9.5
From db9733893752ef81eeda6957416b2592c9040e18 Mon Sep 17 00:00:00 2001
From: Harsh J <harsh@cloudera.com>
Date: Tue, 28 Oct 2014 12:08:26 +0530
Subject: [PATCH 0233/2345] HDFS-6741. Improve permission denied message when
FSPermissionChecker#checkOwner fails. Contributed
by Stephen Chu and Harsh J. (harsh)

(cherry picked from commit 9548bb360ba4ea41e9578cd8fc4ec1c9d9e89980)

Conflicts:
hadoop-hdfs-project/hadoop-hdfs/CHANGES.txt
hadoop-hdfs-project/hadoop-
hdfs/src/main/java/org/apache/hadoop/hdfs/server/namenode/FSPermissionChecker.java
---
.../namenode/DefaultAuthorizationProvider.java     |    4 +++-
.../org/apache/hadoop/hdfs/TestDFSPermission.java  |   18 +++++++++++++++---
.../server/namenode/TestFSPermissionChecker.java   |    8 +++++++-
3 files changed, 25 insertions(+), 5 deletions(-)
diff --git a/hadoop-hdfs-project/hadoop-
hdfs/src/main/java/org/apache/hadoop/hdfs/server/namenode/DefaultAuthorizationProvider.java b/hadoop-hdfs-
project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/namenode/DefaultAuthorizationProvider.java
index b9cd26b..4f8b543 100644
--- a/hadoop-hdfs-project/hadoop-
hdfs/src/main/java/org/apache/hadoop/hdfs/server/namenode/DefaultAuthorizationProvider.java
+++ b/hadoop-hdfs-project/hadoop-
hdfs/src/main/java/org/apache/hadoop/hdfs/server/namenode/DefaultAuthorizationProvider.java
@@ -166,7 +166,9 @@ private void checkOwner(String user, INode inode, int snapshotId
 if (inode != null && user.equals(inode.getUserName(snapshotId))) {
     return;
-    throw new AccessControlException("Permission denied");
+    throw new AccessControlException("Permission denied. user=
+    " + user + " is not the owner of inode=" + inode);
 }

 /**
diff --git a/hadoop-hdfs-project/hadoop-hdfs/src/test/java/org/apache/hadoop/hdfs/TestDFSPermission.java b/hadoop-hdfs-project/hadoop-hdfs/src/test/java/org/apache/hadoop/hdfs/TestDFSPermission.java
index 68349a2..23ce916 100644
--- a/hadoop-hdfs-project/hadoop-hdfs/src/test/java/org/apache/hadoop/hdfs/TestDFSPermission.java
+++ b/hadoop-hdfs-project/hadoop-hdfs/src/test/java/org/apache/hadoop/hdfs/TestDFSPermission.java
@@ -443,7 +443,11 @@ public FileSystem run() throws Exception {
        fs.access(p1, FsAction.WRITE);
        fail("The access call should have failed.");
    } catch (AccessControlException e) {
-        // expected
+        assertTrue("Permission denied messages must carry the username",
+            e.getMessage().contains(USER1_NAME));
+        assertTrue("Permission denied messages must carry the path parent",
+            e.getMessage().contains(
+                p1.getParent().toUri().getPath()));
    }

    Path badPath = new Path("/bad/bad");
@@ -473,7 +477,11 @@ public FileSystem run() throws Exception {
        fs.access(p2, FsAction.EXECUTE);
        fail("The access call should have failed.");
    } catch (AccessControlException e) {
-        // expected
+        assertTrue("Permission denied messages must carry the username",
+            e.getMessage().contains(USER1_NAME));
+        assertTrue("Permission denied messages must carry the path parent",
+            e.getMessage().contains(
+                p2.getParent().toUri().getPath()));
    }
}

@@ -494,7 +502,11 @@ public FileSystem run() throws Exception {
        fs.access(p3, FsAction.READ_WRITE);
        fail("The access call should have failed.");
    } catch (AccessControlException e) {
-        // expected
+        assertTrue("Permission denied messages must carry the username",
+            e.getMessage().contains(USER1_NAME));
+        assertTrue("Permission denied messages must carry the path parent",
+            e.getMessage().contains(
+                p3.getParent().toUri().getPath()));
    }
}

diff --git a/hadoop-hdfs-project/hadoop-
hdfs/src/test/java/org/apache/hadoop/hdfs/server/namenode/TestFSPermissionChecker.java b/hadoop-hdfs-
project/hadoop-hdfs/src/test/java/org/apache/hadoop/hdfs/server/namenode/TestFSPermissionChecker.java
index 9bee4a9..c2ca983 100644
--- a/hadoop-hdfs-project/hadoop-
hdfs/src/test/java/org/apache/hadoop/hdfs/server/namenode/TestFSPermissionChecker.java
+++ b/hadoop-hdfs-project/hadoop-
hdfs/src/test/java/org/apache/hadoop/hdfs/server/namenode/TestFSPermissionChecker.java

---
LICENSE.txt | 94 ++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
NOTICE.txt | 15 +++++++++++
2 files changed, 109 insertions(+)
diff --git a/LICENSE.txt b/LICENSE.txt
index ee9dfa8..729dbc6 100644
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+++ b/LICENSE.txt
@@ -320,3 +320,97 @@ THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
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+For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h
+---------------------------------------------------------------------
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index 62fc581..efa865f 100644
--- a/NOTICE.txt
+++ b/NOTICE.txt
@@ -1,2 +1,17 @@
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From c3d7da102c058aa87251b3815463bb873ed7eeaa Mon Sep 17 00:00:00 2001
From: Andrew Wang <wang@apache.org>
Date: Thu, 21 Apr 2016 13:57:29 -0700
Subject: [PATCH 1497/2345] HADOOP-13043. Add LICENSE.txt entries for bundled
javascript dependencies.

(cherry picked from commit 08b7efa95202b6d6ada143c9369fac4ebb4c49)
(cherry picked from commit e16040b2af5046e3919a1f20cb801ba2ebc823c9)
(cherry picked from commit 22403be0c3b311c54a66d9d8a5d606bf5045fc1d)
(cherry picked from commit 7cf625188cbe2b369986bf15c98c3f1bbbf8cd198)
(cherry picked from commit 36a9150b2b0a79f03e45ab8d80b9a28ef6d305d8)
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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-tool/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
+-------------------------------
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---
1.7.9.5
From 4f87cc69c1fa15ae3fee2e6525f5c1129003b786 Mon Sep 17 00:00:00 2001
From: Yongjun Zhang <yzhang@cloudera.com>
Date: Thu, 24 Sep 2015 21:36:38 -0700
Subject: [PATCH 0851/2345] HDFS-9123. Copying from the root to a subdirectory
should be forbidden. (Wei-Chiu Chuang via Yongjun
Zhang) (Cherry picked from commit
3187dbd7a8b6376134a00e5e9c4693d8eb762c9d)

Change-Id: I39b2acd47a89744bd29bc6564b1668a881d75ce7
---
.../hadoop/fs/shell/CommandWithDestination.java    |    8 +++++++-
.../java/org/apache/hadoop/hdfs/TestDFSShell.java  |   13 +++++++++++++
2 files changed, 20 insertions(+), 1 deletion(-)
diff --git a/hadoop-common-project/hadoop-
common/src/main/java/org/apache/hadoop/fs/shell/CommandWithDestination.java b/hadoop-common-
project/hadoop-common/src/main/java/org/apache/hadoop/fs/shell/CommandWithDestination.java
index 65e52fd..c8042ad 100644
--- a/hadoop-common-project/hadoop-
common/src/main/java/org/apache/hadoop/fs/shell/CommandWithDestination.java
+++ b/hadoop-common-project/hadoop-
common/src/main/java/org/apache/hadoop/fs/shell/CommandWithDestination.java
@@ -233,7 +233,13 @@ protected void processPathArgument(PathData src)
e.setTargetPath(dstPath.toString());
throw e;
}

Open Source Used In Kinetic for Cities 4.0.0.0
if (dstPath.startsWith(srcPath+Path.SEPARATOR)) {
  // When a path is normalized, all trailing slashes are removed
  // except for the root
  if(!srcPath.endsWith(Path.SEPARATOR)) {
    srcPath += Path.SEPARATOR;
  }
}

if(dstPath.startsWith(srcPath)) {
  PathIOException e = new PathIOException(src.toString(),
    "is a subdirectory of itself");
  e.setTargetPath(target.toString());
}

index 7615e42..32f6bff 100644
--- a/hadoop-hdfs-project/hadoop-hdfs/src/test/java/org.apache.hadoop/hdfs/TestDFSShell.java
+++ b/hadoop-hdfs-project/hadoop-hdfs/src/test/java/org.apache.hadoop/hdfs/TestDFSShell.java
@@ -1312,6 +1312,19 @@ public void testDFSShell() throws IOException {
  e.getLocalizedMessage());
  assertEquals(0, val);
+
+  // this should fail
+  args1[0] = ":-cp";
+  args1[1] = ":/";
+  args1[2] = ":/test";
+  val = 0;
+  try {
+    val = shell.run(args1);
+  } catch (Exception e) {
+    System.err.println("Exception raised from DFSShell.run "+
+      e.getLocalizedMessage());
+  }
+  assertEquals(1, val);
+
+} // Verify -test -f negative case (missing file)

--
1.7.9.5
From 4cb9cb39bcb0ce5751bd7a6ad7bb0b0711aeb2a Mon Sep 17 00:00:00 2001
From: Robert Kanter <rkanter@apache.org>
Date: Wed, 30 Sep 2015 17:33:53 -0700
Subject: [PATCH 0904/2345] MAPREDUCE-6494. Permission issue when running archive-logs tool as different users (rkanter)

(cherry picked from commit 5db371f52f5c6e894a7e6a5d523084d4b316a7ab)
(cherry picked from commit 46ef5aa8ebc8f4e929f92558c5af90a5c427bcd1)

Conflicts:
hadoop-mapreduce-project/CHANGES.txt

Change-Id: I5c026966b7187ede212b43a64a159a87136fff49
---
../org/apache/hadoop/tools/HadoopArchiveLogs.java |  91 ++++++++++++++++++++---
.../apache/hadoop/tools/TestHadoopArchiveLogs.java |  40 +++++
2 files changed, 100 insertions(+), 31 deletions(-)

diff --git a/hadoop-tools/hadoop-archive-logs/src/main/java/org/apache/hadoop/tools/HadoopArchiveLogs.java
b/hadoop-tools/hadoop-archive-logs/src/main/java/org/apache/hadoop/tools/HadoopArchiveLogs.java
index 0879d41..8b8e77b 100644
--- a/hadoop-tools/hadoop-archive-logs/src/main/java/org/apache/hadoop/tools/HadoopArchiveLogs.java
+++ b/hadoop-tools/hadoop-archive-logs/src/main/java/org/apache/hadoop/tools/HadoopArchiveLogs.java
@@ -76,6 +76,7 @@
  private static final String MAX_TOTAL_LOGS_SIZE_OPTION = "maxTotalLogsSize";
  private static final String MEMORY_OPTION = "memory";
  private static final String VERBOSE_OPTION = "verbose";
+ private static final String FORCE_OPTION = "force";

  private static final int DEFAULT_MAX_ELIGIBLE = -1;
  private static final int DEFAULT_MIN_NUM_LOG_FILES = 20;
@@ -91,6 +92,8 @@
       long memory = DEFAULT_MEMORY;
  private boolean verbose = false;
+   @VisibleForTesting
+   boolean force = false;

       @VisibleForTesting
       Set<AppInfo> eligibleApplications;
@@ -126,6 +129,8 @@
       public static void main(String[] args) throws Exception {
           @Override
           public int run(String[] args) throws Exception {
+               int exitCode = 1;
+               handleOpts(args);

               FileSystem fs = null;
@@ -141,44 +146,41 @@
               public int run(String[] args) throws Exception {
                   try {
                       fs = FileSystem.get(conf);
                        - checkFilesAndSeedApps(fs, remoteRootLogDir, suffix);
                        + if (prepareWorkingDir(fs, workingDir)) {

                        -     // Prepare working directory
                        -     if (fs.exists(workingDir)) {


- fs.delete(workingDir, true);
-)
- fs.mkdirs(workingDir);
- fs.setPermission(workingDir,
- new FsPermission(FsAction.ALL, FsAction.NONE, FsAction.NONE));
- }
}
- )
- )

- filterAppsByAggregatedStatus();
+ checkFilesAndSeedApps(fs, remoteRootLogDir, suffix);

- checkMaxEligible();
+ filterAppsByAggregatedStatus();

- if (eligibleApplications.isEmpty()) {
- LOG.info("No eligible applications to process");
- System.exit(0);
- }
+ checkMaxEligible();

- StringBuilder sb =
- new StringBuilder("Will process the following applications:");
- for (AppInfo app : eligibleApplications) {
- sb.append("\n\t").append(app.getAppId());
- }
- LOG.info(sb.toString());
+ if (eligibleApplications.isEmpty()) {
+ LOG.info("No eligible applications to process");
+ exitCode = 0;
+ } else {
+ StringBuilder sb =
+ new StringBuilder("Will process the following applications:");
+ for (AppInfo app : eligibleApplications) {
+ sb.append("\n\t").append(app.getAppId());
+ }
+ LOG.info(sb.toString());

- File localScript = File.createTempFile("hadoop-archive-logs-", ".sh");
- generateScript(localScript, workingDir, remoteRootLogDir, suffix);
+ File localScript = File.createTempFile("hadoop-archive-logs-", ".sh");
+ generateScript(localScript, workingDir, remoteRootLogDir, suffix);

- if (runDistributedShell(localScript)) {
- return 0;
+ exitCode = runDistributedShell(localScript) ? 0 : 1;
private void handleOpts(String[] args) throws ParseException {
  Option verboseOpt = new Option(VERBOSE_OPTION, false,
    "Print more details.");
  Option forceOpt = new Option(FORCE_OPTION, false,
    "Force recreating the working directory if an existing one is found. " +
    "This should only be used if you know that another instance is " +
    "not currently running");
  opts.addOption(helpOpt);
  opts.addOption(maxEligibleOpt);
  opts.addOption(minNumLogFilesOpt);
  opts.addOption(maxTotalLogsSizeOpt);
  opts.addOption(memoryOpt);
  opts.addOption(verboseOpt);
  opts.addOption(forceOpt);
  try {
    CommandLineParser parser = new GnuParser();
    if (commandLine.hasOption(VERBOSE_OPTION)) {
      verbose = true;
    }
    if (commandLine.hasOption(FORCE_OPTION)) {
      force = true;
    }
  } catch (ParseException pe) {
    HelpFormatter formatter = new HelpFormatter();
    formatter.printHelp("yarn archive-logs", opts);
    throw new ParseException("Problem parsing options: 
    
    " + pe.getMessage(), pe.getPosition());
  }
}
boolean prepareWorkingDir(FileSystem fs, Path workingDir) throws IOException {
    if (fs.exists(workingDir)) {
        if (force) {
            LOG.info("Existing Working Dir detected: -" + FORCE_OPTION +
                    " specified -> recreating Working Dir");
            fs.delete(workingDir, true);
        } else {
            LOG.info("Existing Working Dir detected: -" + FORCE_OPTION +
                    " not specified -> exiting");
            return false;
        }
    }
    fs.mkdirs(workingDir);
    fs.setPermission(workingDir,
            new FsPermission(FsAction.ALL, FsAction.ALL, FsAction.NONE));
    return true;
}

@VisibleForTesting
void filterAppsByAggregatedStatus() throws IOException, YarnException {
    YarnClient client = YarnClient.createYarnClient();
    try {
        diff --git a/hadoop-tools/hadoop-archive-logs/src/test/java/org/apache/hadoop/tools/TestHadoopArchiveLogs.java
                 b/hadoop-tools/hadoop-archive-logs/src/test/java/org/apache/hadoop/tools/TestHadoopArchiveLogs.java
        index 7423f79..3b8a40f 100644
        --- a/hadoop-tools/hadoop-archive-logs/src/test/java/org/apache/hadoop/tools/TestHadoopArchiveLogs.java
        +++ b/hadoop-tools/hadoop-archive-logs/src/test/java/org/apache/hadoop/tools/TestHadoopArchiveLogs.java
        @@ -23,6 +23,8 @@
            import org.apache.hadoop.fs.FSDataOutputStream;
            import org.apache.hadoop.fs.FileSystem;
            import org.apache.hadoop.fs.Path;
            +import org.apache.hadoop.fs.permission.FsAction;
            +import org.apache.hadoop.fs.permission.FsPermission;
            import org.apache.hadoop.yarn.api.records.ApplicationId;
            import org.apache.hadoop.yarn.api.records.ApplicationReport;
            import org.apache.hadoop.yarn.api.records.ApplicationSubmissionContext;
        @@ -309,6 +311,44 @@
            Assert.assertArrayEquals(statuses, LogAggregationStatus.values());
        }

        @Test(timeout = 5000)
        public void testPrepareWorkingDir() throws Exception {
            Configuration conf = new Configuration();
            HadoopArchiveLogs hal = new HadoopArchiveLogs(conf);
            FileSystem fs = FileSystem.getLocal(conf);
            Path workingDir = new Path("target", "testPrepareWorkingDir");
            fs.delete(workingDir, true);
            Assert.assertFalse(fs.exists(workingDir));
+ // -force is false and the dir doesn't exist so it will create one
+ hal.force = false;
+ boolean dirPrepared = hal.prepareWorkingDir(fs, workingDir);
+ Assert.assertTrue(dirPrepared);
+ Assert.assertTrue(fs.exists(workingDir));
+ Assert.assertEquals(
+     new FsPermission(FsAction.ALL, FsAction.ALL, FsAction.NONE),
+     fs.getFileStatus(workingDir).getPermission());
+ // Throw a file in the dir
+ Path dummyFile = new Path(workingDir, "dummy.txt");
+ fs.createNewFile(dummyFile);
+ Assert.assertTrue(fs.exists(dummyFile));
+ // -force is false and the dir exists, so nothing will happen and the dummy
+ // still exists
+ dirPrepared = hal.prepareWorkingDir(fs, workingDir);
+ Assert.assertFalse(dirPrepared);
+ Assert.assertTrue(fs.exists(workingDir));
+ Assert.assertTrue(fs.exists(dummyFile));
+ // -force is true and the dir exists, so it will recreate it and the dummy
+ // won't exist anymore
+ hal.force = true;
+ dirPrepared = hal.prepareWorkingDir(fs, workingDir);
+ Assert.assertTrue(dirPrepared);
+ Assert.assertTrue(fs.exists(workingDir));
+ Assert.assertEquals(
+     new FsPermission(FsAction.ALL, FsAction.ALL, FsAction.NONE),
+     fs.getFileStatus(workingDir).getPermission());
+ Assert.assertFalse(fs.exists(dummyFile));
+
+ private static void createFile(FileSystem fs, Path p, long sizeMultiple)
+     throws IOException {
+     FSDataOutputStream out = null;
+     --
+     1.7.9.5
+     From d8baeb33264eace2b9d1e1036650d1708ee6a046 Mon Sep 17 00:00:00 2001
+     From: Akira Ajisaka <aajisaka@apache.org>
+     Date: Wed, 15 Jun 2016 13:45:56 +0900
+     Contributed by Xiao Chen, Andrew Wang, and Akira Ajisaka.
+     (cherry picked from commit fbbd1571e6712d3762d3d64166c9bee95adde69a)
+     Conflicts:
+     hadoop-project/pom.xml
+     Change-Id: l1ba78840489cfa13d8615fa9a48f454e1425d27e
---
LICENSE.txt | 1092 ++++++++++++++++++++++++++++++++++++++++++-
NOTICE.txt | 257 +++++++-
hadoop-build-tools/pom.xml | 72 +++
hadoop-project-dist/pom.xml | 2 +
hadoop-project/pom.xml | 23 +- pom.xml | 27 ++
6 files changed, 1448 insertions(+), 25 deletions(-)
create mode 100644 hadoop-build-tools/pom.xml
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This product contains a modified version of Roland Kuhn's ASL2 AbstractNodeQueue, which is based on Dmitriy Vyukov's non-intrusive MPSC queue. It can be obtained at:

  * LICENSE:
  + * license/LICENSE.abstractnodequeue.txt (Public Domain)
  + * 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:

  * LICENSE:
  + * 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:

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

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

  * LICENSE:
  + * license/LICENSE.jctools.txt (ASL2 License)
  + * HOMEPAGE:
  + * https://github.com/JCTools/JCTools

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

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

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

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

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

* LICENSE:
  * license/LICENSE.lzma-java.txt (Apache License 2.0)
* HOMEPAGE:
  * https://github.com/jponge/lzma-java

This product contains a modified portion of 'jfastlz', a Java port of FastLZ compression and decompression library written by William Kinney. It can be obtained at:

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

This product contains a modified portion of and optionally depends on 'Protocol Buffers', Google's data interchange format, which can be obtained at:

* LICENSE:
  * license/LICENSE.protobuf.txt (New BSD License)
* HOMEPAGE:
  * http://code.google.com/p/protobuf/

This product optionally depends on 'Bouncy Castle Crypto APIs' to generate a temporary self-signed X.509 certificate when the JVM does not provide the
+equivalent functionality. It can be obtained at:
+
+  * LICENSE:
+  * license/LICENSE.bouncycastle.txt (MIT License)
+  * HOMEPAGE:
+  * http://www.bouncycastle.org/
+
+This product optionally depends on 'Snappy', a compression library produced
+by Google Inc, which can be obtained at:
+
+  * LICENSE:
+  * license/LICENSE.snappy.txt (New BSD License)
+  * HOMEPAGE:
+  * http://code.google.com/p/snappy/
+
+This product optionally depends on 'JBoss Marshalling', an alternative Java
+serialization API, which can be obtained at:
+
+  * LICENSE:
+  * license/LICENSE.jboss-marshalling.txt (GNU LGPL 2.1)
+  * HOMEPAGE:
+  * http://www.jboss.org/jbossmarshalling
+
+This product optionally depends on 'Caliper', Google's micro-
+benchmarking framework, which can be obtained at:
+
+  * LICENSE:
+  * license/LICENSE.caliper.txt (Apache License 2.0)
+  * HOMEPAGE:
+  * http://code.google.com/p/caliper/
+
+This product optionally depends on 'Apache Commons Logging', a logging
+framework, which can be obtained at:
+
+  * LICENSE:
+  * license/LICENSE.commons-logging.txt (Apache License 2.0)
+  * HOMEPAGE:
+  * http://commons.apache.org/logging/
+
+This product optionally depends on 'Apache Log4J', a logging framework, which
+can be obtained at:
+
+  * LICENSE:
+  * license/LICENSE.log4j.txt (Apache License 2.0)
+  * HOMEPAGE:
+  * http://logging.apache.org/log4j/
+
+This product optionally depends on 'Aalto XML', an ultra-high performance
+non-blocking XML processor, which can be obtained at:
+  * LICENSE:
+    * license/LICENSE.alto-xml.txt (Apache License 2.0)
+  * HOMEPAGE:
+    * http://wiki.fasterxml.com/AaltoHome
+
+This product contains a modified version of 'HPACK', a Java implementation of
+the HTTP/2 HPACK algorithm written by Twitter. It can be obtained at:
+  * LICENSE:
+    * license/LICENSE.hpack.txt (Apache License 2.0)
+  * HOMEPAGE:
+    * https://github.com/twitter/hpack
+
+This product contains a modified portion of 'Apache Commons Lang', a Java library
+provides utilities for the java.lang API, which can be obtained at:
+  * LICENSE:
+    * license/LICENSE.commons-lang.txt (Apache License 2.0)
+  * HOMEPAGE:
+    * https://commons.apache.org/proper/commons-lang/
+
+The binary distribution of this product bundles binaries of
+Commons Codec 1.4,
+which has the following notices:
+  * src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java contains test data from
+    http://aspell.net/test/orig/batch0.tab. Copyright (C) 2002 Kevin Atkinson (kevina@gnu.org)
+    ==============================================================
+    The content of package org.apache.commons.codec.language.bm has been translated
+    from the original php source code available at http://stevemorse.org/phoneticinfo.htm
+    with permission from the original authors.
+    Original source copyright: Copyright (c) 2008 Alexander Beider & Stephen P. Morse.
+
+The binary distribution of this product bundles binaries of
+Commons Lang 2.6,
+which has the following notices:
+  * This product includes software from the Spring Framework, under the Apache License 2.0 (see:
+    StringUtils.containsWhitespace())
+
+The binary distribution of this product bundles binaries of
+Apache Log4j 1.2.17,
+which has the following notices:
+  * ResolverUtil.java
+    Copyright 2005-2006 Tim Fennell
+    Dumbster SMTP test server
+    Copyright 2004 Jason Paul Kitchen
+    TypeUtil.java
diff --git a/hadoop-build-tools/pom.xml b/hadoop-build-tools/pom.xml
new file mode 100644
index 0000000..b875458
--- /dev/null
+++ b/hadoop-build-tools/pom.xml
@@ -0,0 +1,72 @@
+<project xmlns="http://maven.apache.org/POM/4.0.0"
+         xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
+         xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">
+  <parent>
+    <artifactId>hadoop-main</artifactId>
+    <groupId>org.apache.hadoop</groupId>
+    <version>2.6.0-cdh5.9.0-SNAPSHOT</version>
+  </parent>
+  <modelVersion>4.0.0</modelVersion>
+  <artifactId>hadoop-build-tools</artifactId>
+  <description>Apache Hadoop Build Tools Project</description>
+  <name>Apache Hadoop Build Tools</name>
+  <properties>
+    <failIfNoTests>false</failIfNoTests>
+  </properties>
+  <build>
+    <plugins>
+      <plugin>
+        <groupId>org.apache.maven.plugins</groupId>
+        <artifactId>maven-site-plugin</artifactId>
+        <configuration>
+          <skip>true</skip>
+        </configuration>
+      </plugin>
+    </plugins>
+  </build>
+</project>
+     <groupId>org.apache.maven.plugins</groupId>
+     <artifactId>maven-antrun-plugin</artifactId>
+     <executions>
+       <execution>
+         <id>dummy</id>
+         <phase>validate</phase>
+         <goals>
+           <goal>run</goal>
+         </goals>
+       </execution>
+     </executions>
+   </plugin>
+ </build>

diff --git a/hadoop-project-dist/pom.xml b/hadoop-project-dist/pom.xml
index f77a0c1..f0dc7d2 100644
--- a/hadoop-project-dist/pom.xml
+++ b/hadoop-project-dist/pom.xml
@@ -76,6 +76,8 @@
         <include>META-INF/LICENSE.txt</include>
         <include>META-INF/NOTICE.txt</include>
     </includes>
+     <includes>
+       <include>**/*.class</include>
+       <include>webapps/**</include>
+     </includes>
   </configuration>
 </execution>

diff --git a/hadoop-project/pom.xml b/hadoop-project/pom.xml
index 7f2b048..be74d97 100644
--- a/hadoop-project/pom.xml
+++ b/hadoop-project/pom.xml
@@ -76,6 +76,8 @@
         <include>META-INF/LICENSE.txt</include>
         <include>META-INF/NOTICE.txt</include>
     </includes>
+     <includes>
+       <include>**/*.class</include>
+       <include>webapps/**</include>
+     </includes>
   </configuration>
 </execution>
<enforced.maven.version>[3.0.2,)</enforced.maven.version>

<enforced.maven.version>[3.0.2,)</enforced.maven.version>

<artifactId>hadoop-openstack</artifactId>
<version>${project.version}</version>
</dependency>

<dependency>
  <groupId>org.apache.hadoop</groupId>
  <artifactId>hadoop-azure</artifactId>
</dependency>

<groupId>org.codehaus.mojo</groupId>
<artifactId>findbugs-maven-plugin</artifactId>

<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-remote-resources-plugin</artifactId>
  <version>${maven-remote-resources-plugin.version}</version>
  <configuration>
    <resourceBundles>
      <resourceBundle>org.apache.hadoop:hadoop-build-tools:${project.version}</resourceBundle>
    </resourceBundles>
  </configuration>
  <executions>
    <execution>
      <goals>
        <goal>process</goal>
      </goals>
    </execution>
  </executions>
</plugin>

<groupId>org.apache.maven.plugins</groupId>
<artifactId>maven-antrun-plugin</artifactId>
<configuration>
  <rules>
    <DependencyConvergence>
Change multipart upload parameters so the feature actually gets used.

- Multipart threshold 2GB -> 16MB
- Multipart size 100MB -> 8MB

New values based on testing and comparing to what AWS CLI does today.

Change-Id: I18247b784c3ca593c977453c83f7e0a07d4bc143
---
1 file changed, 2 insertions(+), 2 deletions(-)
index 1f58e57..8a4fc0b 100644
--- a/hadoop-common-project/hadoop-common/src/main/resources/core-default.xml
+++ b/hadoop-common-project/hadoop-common/src/main/resources/core-default.xml
@@ -857,13 +857,13 @@ for ldap providers in the same way as above does.
 <property>
   <name>fs.s3a.multipart.size</name>
   - <value>104857600</value>
+ <value>8388608</value>
   <description>How big (in bytes) to split upload or copy operations up into.</description>
 </property>

 <property>
   <name>fs.s3a.multipart.threshold</name>
   - <value>2147483647</value>
+ <value>16777216</value>
   <description>Threshold before uploads or copies use parallel multipart operations.</description>
 </property>

--
1.7.9.5
From b25baa43a712fc073216715403049bad99e4b94e Mon Sep 17 00:00:00 2001
From: John Zhuge <john.zhuge@gmail.com>
Date: Fri, 16 Sep 2016 10:02:31 -0700

(cherry picked from commit b395f58e850e70bcb9273d86510276ce28962a85)

Change-Id: I64d6783daffb1c06a5fd2559fede5f7efb02766c

---
.../hadoop/hdfs/server/namenode/FSDirectory.java | 84 ++++++++++++++++-
.../hadoop/hdfs/server/namenode/FSNamesystem.java | 37 +++------
.../server/namenode/TestFSPermissionChecker.java | 2 +-
3 files changed, 93 insertions(+), 30 deletions(-)
index 84b29b8..d6e62ce 100644
--- a/hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/namenode/FSDirectory.java
+++ b/hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/namenode/FSDirectory.java
@@ -53,6 +53,7 @@
import org.apache.hadoop.fs.XAttrSetFlag;
import org.apache.hadoop.fs.permission.AclEntry;
import org.apache.hadoop.fs.permission.AclStatus;
+import org.apache.hadoop.fs.permission.FsAction;
import org.apache.hadoop.fs.permission.FsPermission;
import org.apache.hadoop.fs.permission.PermissionStatus;
import org.apache.hadoop.hdfs.DFSConfigKeys;
@@ -97,6 +98,7 @@
import com.google.common.base.Preconditions;
import com.google.common.collect.Lists;
import org.apache.hadoop.security.AccessControlException;
+import org.apache.hadoop.security.UserGroupInformation;

/**
 * Both FSDirectory and FSNamesystem manage the state of the namespace.
 @@ -154,6 +156,8 @@
 private final ReentrantReadWriteLock dirLock;

 private final boolean isPermissionEnabled;
 +private final String fsOwnerShortUserName;
 +private final String supergroup;

 // utility methods to acquire and release read lock and write lock
 void readLock() {
 @@ -197,13 +201,19 @@
 private final NameCache<ByteArray> nameCache;

 - FSDirectory(FSNamesystem ns, Configuration conf) {

FSDirectory(FSNamespace ns, Configuration conf) throws IOException {
    this.dirLock = new ReentrantReadWriteLock(true); // fair
    rootDir = createRoot(ns);
    inodeMap = INodeMap.newInstance(rootDir);
    this.isPermissionEnabled = conf.getBoolean(
        DFSConfigKeys.DFS_PERMISSIONS_ENABLED_KEY,
        DFSConfigKeys.DFS_PERMISSIONS_ENABLED_DEFAULT);
    this.fsOwnerShortUserName =
        UserGroupInformation.getCurrentUser().getShortUserName();
    this.supergroup = conf.get(
        DFSConfigKeys.DFS_PERMISSIONS_SUPERUSERGROUP_KEY,
        DFSConfigKeys.DFS_PERMISSIONS_SUPERUSERGROUP_DEFAULT);
    int configuredLimit = conf.getInt(
        DFSConfigKeys.DFS_LIST_LIMIT, DFSConfigKeys.DFS_LIST_LIMIT_DEFAULT);
    this.lsLimit = configuredLimit > 0 ?
        NSSUARIO@.4320,4 +3430,76 @NROInPath getINodesInPath4Write(String src, boolean resolveLink) {
            return inodesInPath;
        }
    +
    + FSPermissionChecker getPermissionChecker() throws AccessControlException {
        try {
            return new FSPermissionChecker(fsOwnerShortUserName, supergroup,
                NameNode.getRemoteUser());
        } catch (IOException ioe) {
            throw new AccessControlException(ioe);
        }
    }
    +
    + void checkOwner(FSPermissionChecker pc, String path)
        throws AccessControlException, UnresolvedLinkException {
            checkPermission(pc, path, true, null, null, null, null);
        }
    +
    + void checkPathAccess(FSPermissionChecker pc, String path,
        FsAction access)
        throws AccessControlException, UnresolvedLinkException {
            checkPermission(pc, path, false, null, null, access, null);
        }
    +
    + void checkParentAccess(
        FSPermissionChecker pc, String path, FsAction access)
        throws AccessControlException, UnresolvedLinkException {
            checkPermission(pc, path, false, null, access, null);
        }
    +
    + void checkAncestorAccess(}
FSPermissionChecker pc, String path, FsAction access) throws AccessControlException, UnresolvedLinkException {
    checkPermission(pc, path, false, access, null, null, null);
}

void checkTraverse(FSPermissionChecker pc, String path)
throws AccessControlException, UnresolvedLinkException {
    checkPermission(pc, path, false, null, null, null, null);
}

/**
 * Check whether current user have permissions to access the path. For more
 * details of the parameters, see
 * {@link FSPermissionChecker#checkPermission}.
 */
private void checkPermission(
    FSPermissionChecker pc, String path, boolean doCheckOwner,
    FsAction ancestorAccess, FsAction parentAccess, FsAction access,
    FsAction subAccess)
throws AccessControlException, UnresolvedLinkException {
    checkPermission(pc, path, doCheckOwner, ancestorAccess,
        parentAccess, access, subAccess, false, true);
}

/**
 * Check whether current user have permissions to access the path. For more
 * details of the parameters, see
 * {@link FSPermissionChecker#checkPermission}.
 */
void checkPermission(
    FSPermissionChecker pc, String path, boolean doCheckOwner,
    FsAction ancestorAccess, FsAction parentAccess, FsAction access,
    FsAction subAccess, boolean ignoreEmptyDir, boolean resolveLink)
throws AccessControlException, UnresolvedLinkException {
    if (!pc.isSuperUser()) {
        readLock();
        try {
            pc.checkPermission(path, this, doCheckOwner, ancestorAccess,
                parentAccess, access, subAccess, ignoreEmptyDir, resolveLink);
        } finally {
            readUnlock();
        }
    }
}
Open Source Used In Kinetic for Cities 4.0.0.0

--- a/hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/namenode/FSNamesystem.java
+++ b/hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/namenode/FSNamesystem.java
@@ -408,7 +408,6 @@ private void logAuditEvent(boolean succeeded,
    static int BLOCK_DELETION_INCREMENT = 1000;
    private final boolean isPermissionEnabled;
    private final UserGroupInformation fsOwner;
-   private final String fsOwnerShortUserName;
    private final String supergroup;
    private final boolean standbyShouldCheckpoint;

    @ @ -842,7 +841,6 @@ static FSNamesystem loadFromDisk(Configuration conf) throws IOException {
        DFS_STORAGE_POLICY_ENABLED_DEFAULT);

        this.fsOwner = UserGroupInformation.getCurrentUser();
-       this.fsOwnerShortUserName = fsOwner.getShortUserName();
        this.supergroup = conf.get(DFS_PERMISSIONS_SUPERUSERGROUP_KEY,
           DFS_PERMISSIONS_SUPERUSERGROUP_DEFAULT);
        this.isPermissionEnabled = conf.getBoolean(DFS_PERMISSIONS_ENABLED_KEY,
@@ -842,7 +841,6 @@ static FSNamesystem loadFromDisk(Configuration conf) throws IOException {
        DFS_STORAGE_POLICY_ENABLED_DEFAULT);

        this.fsOwner = UserGroupInformation.getCurrentUser();
-       this.fsOwnerShortUserName = fsOwner.getShortUserName();
        this.supergroup = conf.get(DFS_PERMISSIONS_SUPERUSERGROUP_KEY,
           DFS_PERMISSIONS_SUPERUSERGROUP_DEFAULT);
        this.isPermissionEnabled = conf.getBoolean(DFS_PERMISSIONS_ENABLED_KEY,
@@ -4060,11 +4058,7 @@ private boolean deleteInt(String src, boolean recursive, boolean logRetryCache)
    FSPermissionChecker getPermissionChecker()
        throws AccessControlException {
        - try {
-           return new FSPermissionChecker(fsOwnerShortUserName, supergroup, getRemoteUser());
        - } catch (IOException ioe) {
-           throw new AccessControlException(ioe);
-         }
        + return dir.getPermissionChecker();
        }

        /**
@@ -6544,13 +6538,13 @@ PermissionStatus createFsOwnerPermissions(FsPermission permission) {
        private void checkOwner(FSPermissionChecker pc, String path)
            throws AccessControlException, UnresolvedLinkException {
        -    checkPermission(pc, path, true, null, null, null);
+    dir.checkOwner(pc, path);
        }

        private void checkPathAccess(FSPermissionChecker pc,
            String path, FsAction access) throws AccessControlException,
            UnresolvedLinkException {
-        checkPermission(pc, path, false, null, null, access, null);
+    dir.checkPathAccess(pc, path, access);
        }
private void checkUnreadableBySuperuser(FSPermissionChecker pc,
            String path, FsAction access) throws AccessControlException,
            UnresolvedLinkException {
    checkPermission(pc, path, false, null, access, null, null);
    dir.checkParentAccess(pc, path, access);
}

private void checkParentAccess(FSPermissionChecker pc,
            String path, FsAction access) throws AccessControlException,
            UnresolvedLinkException {
    checkPermission(pc, path, false, null, access, null, null);
    dir.checkParentAccess(pc, path, access);
}

private void checkAncestorAccess(FSPermissionChecker pc,
            String path, FsAction access) throws AccessControlException,
            UnresolvedLinkException {
    checkPermission(pc, path, false, access, null, null, null);
    dir.checkAncestorAccess(pc, path, access);
}

private void checkTraverse(FSPermissionChecker pc, String path)
            throws AccessControlException, UnresolvedLinkException {
    checkPermission(pc, path, false, null, null, null, null);
    dir.checkTraverse(pc, path);
}

@Override
private void checkPermission(FSPermissionChecker pc,
            String path, boolean doCheckOwner, FsAction ancestorAccess,
            FsAction parentAccess, FsAction access, FsAction subAccess,
            boolean ignoreEmptyDir, boolean resolveLink)
            throws AccessControlException, UnresolvedLinkException {
    if (!pc.isSuperUser()) {
        waitForLoadingFSImage();
        readLock();
        try {
            pc.checkPermission(path, dir, doCheckOwner, ancestorAccess,
                parentAccess, access, subAccess, ignoreEmptyDir, resolveLink);
        } finally {
            unlock();
        }
    }
    /*
     * Check whether current user have permissions to access the path. For more
     * details of the parameters, see
     * [ @link FSPermissionChecker#checkPermission ].
     * */
    checkPermission(pc, path, doCheckOwner, ancestorAccess,
        parentAccess, access, subAccess, false, true);
}

/*
 * Check whether current user have permissions to access the path. For more
 * details of the parameters, see
 * [ @link FSPermissionChecker#checkPermission ].
 * */
private void checkPermission(FSPermissionChecker pc,
            String path, boolean doCheckOwner, FsAction ancestorAccess,
            FsAction parentAccess, FsAction access, FsAction subAccess,
            boolean ignoreEmptyDir, boolean resolveLink)
            throws AccessControlException, UnresolvedLinkException {
    if (!pc.isSuperUser()) {
        waitForLoadingFSImage();
        readLock();
        try {
            pc.checkPermission(path, dir, doCheckOwner, ancestorAccess,
                parentAccess, access, subAccess, ignoreEmptyDir, resolveLink);
        } finally {
            unlock();
        }
    }
    /*
- } finally {
-         readUnlock();
- }
- }
+    dir.checkPermission(pc, path, doCheckOwner, ancestorAccess, parentAccess,
+                        access, subAccess, ignoreEmptyDir, resolveLink);
+
}/**

diff --git a/hadoop-hdfs-project/hadoop-
    hdfs/src/test/java/org/apache/hadoop/hdfs/server/namenode/TestFSPermissionChecker.java b/hadoop-hdfs-
    project/hadoop-hdfs/src/test/java/org/apache/hadoop/hdfs/server/namenode/TestFSPermissionChecker.java
index c2ca983..4ae8d26 100644
--- a/hadoop-hdfs-project/hadoop-
    hdfs/src/test/java/org/apache/hadoop/hdfs/server/namenode/TestFSPermissionChecker.java
+++ b/hadoop-hdfs-project/hadoop-
    hdfs/src/test/java/org/apache/hadoop/hdfs/server/namenode/TestFSPermissionChecker.java
@@ -75,7 +75,7 @@
private INodeDirectory inodeRoot;

@Before
- public void setUp() {
+ public void setUp() throws IOException {
    Configuration conf = new Configuration();
    FSNamesystem fsn = mock(FSNamesystem.class);
    doAnswer(new Answer() {
--
1.7.9.5
From 2da7cc4d6c29567befd137b9bfe21816baac79c5 Mon Sep 17 00:00:00 2001
From: Andrew Wang <wang@apache.org>
Date: Thu, 7 Jul 2016 10:45:01 -0700
Subject: [PATCH 1755/2345] HADOOP-13350. Additional fix to LICENSE and
NOTICE. Contributed by Xiao Chen.

(cherry picked from commit 830516b8c5d25b8dd1434d8b9caab89ecf5e43359)
(cherry picked from commit e64094484de0e47850148d4c33ca3c189c93c01c)

Change-Id: Ic677293653612c4558b21936cdafe4bd9ed68e8f

---
NOTICE.txt | 163 ++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
1 file changed, 163 insertions(+)

diff --git a/NOTICE.txt b/NOTICE.txt
index 9a8af87..bbcdc3c 100644
--- a/NOTICE.txt
+++ b/NOTICE.txt
@@ -272,3 +272,166 @@ which has the following notices:

Copyright 2004 Jason Paul Kitchen
TypeUtil.java
Copyright 2002-2012 Ramnivas Laddad, Juergen Hoeller, Chris Beams
+
+The binary distribution of this product bundles binaries of
+Jetty 6.1.26,
+which has the following notices:
+  * ==============================================================
+  Jetty Web Container
+  Copyright 1995-2016 Mort Bay Consulting Pty Ltd.
+  ==============================================================
+
+  The Jetty Web Container is Copyright Mort Bay Consulting Pty Ltd
+  unless otherwise noted.
+
+  Jetty is dual licensed under both
+
+  * The Apache 2.0 License
+  http://www.apache.org/licenses/LICENSE-2.0.html
+
+  and
+
+  * The Eclipse Public 1.0 License
+
+  Jetty may be distributed under either license.
+
+  ------
+  Eclipse
+
+  The following artifacts are EPL.
+  * org.eclipse.jetty.orbit:org.eclipse.jdt.core
+
+  The following artifacts are EPL and ASL2.
+  * org.eclipse.jetty.orbit:javax.security.auth.message
+
+  The following artifacts are EPL and CDDL 1.0.
+  * org.eclipse.jetty.orbit:javax.mail.glassfish
+
+  ------
+  Oracle
+
+  The following artifacts are CDDL + GPLv2 with classpath exception.
+  https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html
+
+  * javax.servlet:javax.servlet-api
+  * javax.annotation:javax.annotation-api
+ * javax.transaction:javax.transaction-api
+ * javax.websocket:javax.websocket-api
+
+ ------
+ Oracle OpenJDK
+
+ If ALPN is used to negotiate HTTP/2 connections, then the following
+ artifacts may be included in the distribution or downloaded when ALPN
+ module is selected.
+
+ * java.sun.security.ssl
+
+ These artifacts replace/modify OpenJDK classes. The modifications
+ are hosted at github and both modified and original are under GPL v2 with
+ classpath exceptions.
+ http://openjdk.java.net/legal/gplv2+ce.html
+
+
+ ------
+ OW2
+
+ The following artifacts are licensed by the OW2 Foundation according to the
+ terms of http://asm.ow2.org/license.html
+
+ org.ow2.asm:asm-commons
+ org.ow2.asm:asm
+
+
+ ------
+ Apache
+
+ The following artifacts are ASL2 licensed.
+
+ org.apache.taglibs:taglibs-standard-spec
+ org.apache.taglibs:taglibs-standard-impl
+
+
+ ------
+ MortBay
+
+ The following artifacts are ASL2 licensed. Based on selected classes from
+ following Apache Tomcat jars, all ASL2 licensed.
+
+ org.mortbay.jasper:apache-jsp
+ org.apache.tomcat:tomcat-jasper
+ org.apache.tomcat:tomcat-juli
+ org.apache.tomcat:tomcat-jsp-api
+ org.apache.tomcat:tomcat-el-api
+ org.apache.tomcat:tomcat-jasper-el
+ org.apache.tomcat:tomcat-api
+ org.apache.tomcat:tomcat-util-scan
+ org.apache.tomcat:tomcat-util
+
+ org.mortbay.jasper.apache-el
+ org.apache.tomcat:tomcat-jasper-el
+ org.apache.tomcat:tomcat-el-api
+
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+ Mortbay
+
+ The following artifacts are CDDL + GPLv2 with classpath exception.
+
+ https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html
+
+ org.eclipse.jetty.toolchain:jetty-schemas
+
+ ------
+ Assorted
+
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Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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

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

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

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

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

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- Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
- Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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a purpose that is entirely well-defined independent of the
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b) Use a suitable shared library mechanism for linking with the
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copy of the library already present on the user's computer system,
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In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.
Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

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

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

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

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

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

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

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:
a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library.  (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library.  A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
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the user installs one, as long as the modified version is
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d) If distribution of the work is made by offering access to copy
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e) Verify that the user has already received a copy of these
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For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it.  However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

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use both them and the Library together in an executable that you
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7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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

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

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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

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

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

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

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

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.
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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

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

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

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.
If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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

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

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

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1.169 hibernate-validator 5.4.2.Final

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 -->
<validation-config
 xmlns="http://jboss.org/xml/ns/javax/validation/configuration"
 xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
 xsi:schemaLocation="http://jboss.org/xml/ns/javax/validation/configuration validation-configuration-1.1.xsd"
 version="1.1">

 <property
 name="hibernate.validator.constraint_mapping_contributor">org.hibernate.validator.test.cfg.ConstraintMappingContributorConfiguredInValidationXmlTest$MyConstraintMappingContributor1</property>

 <property
 name="hibernate.validator.constraint_mapping_contributors">org.hibernate.validator.test.cfg.ConstraintMappingContributorConfiguredInValidationXmlTest$MyConstraintMappingContributor2</property>

</validation-config>

<?xml version="1.0" encoding="UTF-8"?>
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1.173 htmlparser 1.2.1

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package nu.validator.saxtree;
import org.xml.sax.Locator;
import org.xml.sax.SAXException;

/**
 * A CDATA section.
 * @version $Id: CDATA.java 367 2008-07-02 18:27:22Z hsivonen $
 * @author hsivonen
 */
public final class CDATA extends ParentNode {

/**
 * The constructor.
 * @param locator the locator
 */
public CDATA(Locator locator) {
    super(locator);
}

/**
 * @see nu.validator.saxtree.Node#visit(nu.validator.saxtree.TreeParser)
 */
@Override
void visit(TreeParser treeParser) throws SAXException {
    treeParser.startCDATA(this);
}

/**
 * @throws SAXException if things go wrong
 * @see nu.validator.saxtree.Node#revisit(nu.validator.saxtree.TreeParser)
 */
@Override
void revisit(TreeParser treeParser) throws SAXException {
    treeParser.endCDATA(endLocator);
}

/**
 * @see nu.validator.saxtree.Node#getNodeType()
 */
@Override
public NodeType getNodeType() {
    return NodeType.CDATA;
}

}

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/**
 * The local name of an element or attribute. Must be comparable with 
 * <code>==</code> (interned <code>String</code> in Java).
 * 
 * @version $Id$
 * @author hsivonen
 */

public @interface Local {

}

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/*

package nu.validator.htmlparser.rewindable;

public interface Rewindable {
    void willNotRewind();

    void rewind();

    boolean canRewind();
}

1.174 http async client 4.0.1

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<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="utf-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1">
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<meta name="msapplication-config" content="/favicons/browserconfig.xml">
<meta name="theme-color" content="#303284">
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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 &nbsp;<a href="/licenses/">Licenses</a></div>
          <ul class="nav navbar-nav navbar-right">
            <li class="dropdown">
              <a href="#" class="dropdown-toggle" data-toggle="dropdown">About <span class="caret"></span></a>
            </li>
            <li><a href="/about/">About</a></li>
            <li><a href="/contact/">Contact</a></li>
          </ul>
        </div>
      </div>
    </nav>
  </header>
  <nav class="navbar navbar-default navbar-fixed-top">
    <div class="container">
      <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>
      <div class="collapse navbar-collapse" id="mainnav-collapse">
        <div style="line-height:20px; padding-top:5px; float:left"><a href="/">Home</a> &raquo &nbsp;<a href="/licenses/">Licenses</a></div>
        <ul class="nav navbar-nav navbar-right">
          <li class="dropdown">
            <a href="#" class="dropdown-toggle" data-toggle="dropdown">About <span class="caret"></span></a>
          </li>
          <li><a href="/about/">About</a></li>
          <li><a href="/contact/">Contact</a></li>
        </ul>
      </div>
    </div>
  </nav>

</body>
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Wrapper
1.192 httpCore 4.4.8

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1.194 httpcore-4.3.3 4.3.3

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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python’s principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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Last updated: 2009-02-28

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History
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Before (and including) argparse 1.1, the argparse package was licensed under Apache License v2.0.

After argparse 1.1, all project files from the argparse project were deleted due to license compatibility issues between Apache License 2.0 and GNU GPL v2.

The project repository then had a clean start with some files taken from Python 2.7.1, so definitely all files are under Python License now.

A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
In Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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===========================
Advice for new contributors
===========================

New contributor and not sure what to do? Want to help but just don't know how to get started? This is the section for you.

First steps
-----------

Start with these easy tasks to discover Django's development process.

* **Sign the Contributor License Agreement**

The code that you write belongs to you or your employer. If your contribution is more than one or two lines of code, you need to sign the `CLA`_. See the `Contributor License Agreement FAQ`_ for a more thorough explanation.
* **Triage tickets**

If an `unreviewed ticket` reports a bug, try and reproduce it. If you can reproduce it and it seems valid, make a note that you confirmed the bug and accept the ticket. Make sure the ticket is filed under the correct component area. Consider writing a patch that adds a test for the bug’s behavior, even if you don't fix the bug itself. See more at :ref:`how-can-i-help-with-triaging`.

* **Look for tickets that are accepted and review patches to build familiarity with the codebase and the process**

Mark the appropriate flags if a patch needs docs or tests. Look through the changes a patch makes, and keep an eye out for syntax that is incompatible with older but still supported versions of Python. Run the tests and make sure they pass on your system. Where possible and relevant, try them out on a database other than SQLite. Leave comments and feedback!

* **Keep old patches up to date**

Oftentimes the codebase will change between a patch being submitted and the time it gets reviewed. Make sure it still applies cleanly and functions as expected. Simply updating a patch is both useful and important! See more on :doc:`writing-code/submitting-patches`.

* **Write some documentation**

Django's documentation is great but it can always be improved. Did you find a typo? Do you think that something should be clarified? Go ahead and suggest a documentation patch! See also the guide on :doc:`writing-documentation`, in particular the tips for :ref:`improving-the-documentation`.

.. note::

   The `reports page` contains links to many useful Trac queries, including several that are useful for triaging tickets and reviewing patches as suggested above.

   .. reports page: https://code.djangoproject.com/wiki/Reports

   .. CLA: https://www.djangoproject.com/foundation/clla/
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Guidelines
As a newcomer on a large project, it's easy to experience frustration. Here's some advice to make your work on Django more useful and rewarding.

**Pick a subject area that you care about, that you are familiar with, or that you want to learn about**

You don't already have to be an expert on the area you want to work on; you become an expert through your ongoing contributions to the code.

**Analyze tickets' context and history**

Trac isn't an absolute; the context is just as important as the words. When reading Trac, you need to take into account who says things, and when they were said. Support for an idea two years ago doesn't necessarily mean that the idea will still have support. You also need to pay attention to who hasn't spoken -- for example, if a core team member hasn't been recently involved in a discussion, then a ticket may not have the support required to get into trunk.

**Start small**

It's easier to get feedback on a little issue than on a big one. See the `easy pickings`.

**If you're going to engage in a big task, make sure that your idea has support first**

This means getting someone else to confirm that a bug is real before you fix the issue, and ensuring that the core team supports a proposed feature before you go implementing it.

**Be bold! Leave feedback!**

Sometimes it can be scary to put your opinion out to the world and say "this ticket is correct" or "this patch needs work", but it's the only way the project moves forward. The contributions of the broad Django community ultimately have a much greater impact than that of the core developers. We can't do it without YOU!

**Err on the side of caution when marking things Ready For Check-in**

If you're really not certain if a ticket is ready, don't mark it as such. Leave a comment instead, letting others know your thoughts. If you're mostly certain, but not completely certain, you might also try asking on IRC to see if someone else can confirm your suspicions.
**Wait for feedback, and respond to feedback that you receive**

Focus on one or two tickets, see them through from start to finish, and repeat. The shotgun approach of taking on lots of tickets and letting some fall by the wayside ends up doing more harm than good.

**Be rigorous**

When we say ":pep:`8`, and must have docs and tests", we mean it. If a patch doesn't have docs and tests, there had better be a good reason. Arguments like "I couldn't find any existing tests of this feature" don't carry much weight--while it may be true, that means you have the extra-important job of writing the very first tests for that feature, not that you get a pass from writing tests altogether.

.. _easy pickings: https://code.djangoproject.com/query?status=!closed&easy=1

.. _new-contributors-faq:

FAQ
---

1. **This ticket I care about has been ignored for days/weeks/months! What can I do to get it committed?**

   First off, it's not personal. Django is entirely developed by volunteers (even the core developers), and sometimes folks just don't have time. The best thing to do is to send a gentle reminder to the |django-developers| mailing list asking for review on the ticket, or to bring it up in the #django-dev IRC channel.

2. **I'm sure my ticket is absolutely 100% perfect, can I mark it as RFC myself?**

   Short answer: No. It's always better to get another set of eyes on a ticket. If you're having trouble getting that second set of eyes, see question 1, above.


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Requests includes some vendorized python libraries to ease installation.

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The original version of this class was published in a JavaWorld article by Steven Brandt: http://www.javaworld.com/javaworld/javatips/jw-javatip128.html Jennifer Orr (JavaWorld) wrote: "You have permission to use the code appearing in Steven Brandt's JavaWorld article, 'Java Tip 128: Create a quick-and-dirty XML parser.' We ask that you reference the author as the creator and JavaWorld as the original publisher of the code." Steven Brandt also agreed with the use of this class.

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In a mail sent to Bruno Lowagie on January 23, 2008, Brian Burkhalter (@sun.com) writes: "This code is under a BSD license and supersedes the older codec packages on which your code is based. It also includes numerous fixes among them being the ability to handle a lot of 'broken' TIFFs."

Note that numerous fixes were applied to the code used in iText by Paulo Soares, but apart from the fixes there were no essential changes between the code that was originally adapted and the code that is now available under the following license:

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FYI: Brian also added: "A bit of history might be in order. The codec classes that you used originally were based on some classes included with JAI but not strictly part of JAI. As of Java SE 1.4 an official Image I/O framework was added in javax.imageio.... This framework supports these formats:

Java 1.4: GIF (read only), JPEG, PNG
Java 1.5: Added support for BMP and WBMP
Java 1.6: Added support for writing GIF

The JAI Image I/O Tools packages (jai-imageio-core) were created to support formats handled by JAI but not included in Java SE
as well as some new things like JPEG2000."
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1.207 jackson-databind 2.9.5

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

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

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

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

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

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

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

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the
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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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

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d) If a facility in the modified Library refers to a function or a
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is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
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These requirements apply to the modified work as a whole. If
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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

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

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

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

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)
Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

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

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

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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

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

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must be distributed under the terms of Sections 1 and 2 above on a
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If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
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compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
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therefore falls outside the scope of this License.

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

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

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)
Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
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a) Accompany the work with the complete corresponding
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changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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

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

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

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

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

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

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

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https://github.com/jboss-javassist/javassist

Javassist version 3

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</body>
</html>

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</p>
<p>
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<p>
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<p>
6.</p>
<p>
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1.237 jaxb-api 2.2

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

public interface Log {
// ----------------------------------- Logging Properties

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

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

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

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

/**
 * <p> Is trace logging currently enabled? </p>
 * 
 * 
 */

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

/**
 * <p> Is warn logging currently enabled? </p>
 *
 * @return true if warn enabled, false otherwise
*/
public boolean isWarnEnabled();

// ------------------------------- Logging Methods

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

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

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

public void info(Object message);

public void info(Object message, Throwable t);

public void warn(Object message);

public void warn(Object message, Throwable t);

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

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

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

}

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19 May, 2009

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package org.eclipse.jetty.continuation;

import javax.servlet.Filter;
import javax.servlet.FilterChain;
import javax.servlet.Servlet;
import javax.servlet.ServletRequest;
import javax.servlet.ServletResponse;
import javax.servlet.ServletResponseWrapper;

/* ----------------------------------------------- */
/**
 * Continuation.
 *
 * A continuation is a mechanism by which a HTTP Request can be suspended and
 * restarted after a timeout or an asynchronous event has occurred.
 * <p>
The continuation mechanism is a portable mechanism that will work asynchronously without additional configuration of all jetty-7, jetty-8 and Servlet 3.0 containers. With the addition of the `{@link ContinuationFilter}@link ContinuationFilter`, the mechanism will also work asynchronously on jetty-6 and non-asynchronously on any servlet 2.5 container.

The Continuation API is a simplification of the richer async API provided by the servlet-3.0 and an enhancement of the continuation API that was introduced with jetty-6.

A continuation object is obtained for a request by calling the factory method `{@link ContinuationSupport#getContinuation(ServletRequest)}@link ContinuationSupport#getContinuation(ServletRequest)`. The continuation type returned will depend on the servlet container being used.

There are two distinct style of operation of the continuation API.

The suspend/resume style is used when a servlet and/or filter is used to generate the response after a asynchronous wait that is terminated by an asynchronous handler.

```java
Filter/Servlet:
// if we need to get asynchronous results
Object results = request.getAttribute("results");
if (results==null)
{
  Continuation continuation = ContinuationSupport.getContinuation(request);
  continuation.suspend();
  myAsyncHandler.register(continuation);
  return; // or continuation.undispatch();
}

async wait ...

Async Handler:
// when the waited for event happens
continuation.setAttribute("results",event);
continuation.resume();

Filter/Servlet:
// when the request is redispached
if (results==null)
* {  
*   ... // see above  
* }  
* else  
* {  
*   response.getOutputStream().write(process(results));  
* }  
* </pre>  
* <h3>Suspend/Complete Usage</h3>  
* <p>  
* The suspend/complete style is used when an asynchronous handler is used to  
* generate the response:  
* </p>  
* <pre>  
* <b>Filter/Servlet:</b>  
*   // when we want to enter asynchronous mode  
*   Continuation continuation = ContinuationSupport.getContinuation(request);  
*   continuation.suspend(response); // response may be wrapped  
*   myAsyncHandler.register(continuation);  
*   return; // or continuation.undispatch();  
*  
*   <b>Wrapping Filter:</b>  
*   // any filter that had wrapped the response should be implemented like:  
*   try  
*   {  
*     chain.doFilter(request,wrappedResponse);  
*   }  
*   finally  
*   {  
*     if (!continuation.isResponseWrapped())  
*       wrappedResponse.finish()  
*     else  
*       continuation.addContinuationListener(myCompleteListener)  
*   }  
*  
* async wait ...  
*  
*   <b>Async Handler:</b>  
*   // when the async event happens  
*   continuation.getServletResponse().getOutputStream().write(process(event));  
*   continuation.complete()  
* </pre>  
*  
* <h1>Continuation Timeout</h1>  
* <p>  
* If a continuation is suspended, but neither {@link #complete()} or {@link #resume()} is  
* called during the period set by {@link #setTimeout(long)}, then the continuation will  
* expire and {@link #isExpired()} will return true.
* When a continuation expires, the {@link ContinuationListener#onTimeout(Continuation)} method is called on any {@link ContinuationListener} that has been registered via the {@link #addContinuationListener(ContinuationListener)} method. The onTimeout handlers may write a response and call {@link #complete()}. If {@link #complete()} is not called, then the container will redispact the request as if {@link #resume()} had been called, except that {@link #isExpired()} will be true and {@link #isResumed()} will be false.

* @see ContinuationSupport
* @see ContinuationListener

*/

public interface Continuation
{

    public final static String ATTRIBUTE = "org.eclipse.jetty.continuation";

    /* --------------------------------------------------------------------------- */
    /**
     * Set the continuation timeout.
     *
     * @param timeoutMs
     *            The time in milliseconds to wait before expiring this continuation after a call to {@link #suspend()} or {@link #suspend(ServletResponse)}. A timeout of <=0 means the continuation will never expire.
     */
    void setTimeout(long timeoutMs);

    /* --------------------------------------------------------------------------- */
    /**
     * Suspend the processing of the request and associated
     * {@link ServletResponse}.
     *
     * <p>
     * After this method has been called, the lifecycle of the request will be extended beyond the return to the container from the
     * {@link Servlet#service(ServletRequest, ServletResponse)} method and
     * {@link Filter#doFilter(ServletRequest, ServletResponse, FilterChain)} calls. When a suspended request is returned to the container after a dispatch, then the container will not commit the associated response (unless an exception other than {@link ContinuationThrowable} is thrown).
     */
    *<p>
    *
    *<p>
    * When the thread calling the filter chain and/or servlet has returned to
    * the container with a suspended request, the thread is freed for other
    * tasks and the request is held until either:
void suspend();

/**
   * Suspend the processing of the request and associated
   * ServletResponse.
   *
   * After this method has been called, the lifecycle of the request will be
   * extended beyond the return to the container from the
   * ServletService(ServletRequest, ServletResponse) method and
   * Filter#doFilter(ServletRequest, ServletResponse, FilterChain)
   * calls. When a suspended request is returned to the container after
   * a dispatch, then the container will not commit the associated response
   * (unless an exception other than ContinuationThrowable is thrown).
   */

void suspend(ServletResponse response);

/**
   * Suspend with no arguments is used when a call to resume() is expected. If a call to complete() is expected, then the
   * suspend(ServletResponse) method should be used instead of this method.
   */

/* @exception IllegalStateException
   * If the request cannot be suspended
*/

@exception IllegalStateException
   * If the request cannot be suspended
*/
* returns true, then the wrapped request has been passed to the asynchronous
* handler and the wrapper should not be destroyed/finished until after a call to
* [ @link #complete() ] (potentially using a [ @link ContinuationListener#onComplete(Continuation) ]
* listener).
* 
* [ @param response ] The response to return via a call to [ @link #getServletResponse() ]
* [ @exception IllegalStateException ]
* If the request cannot be suspended
*/

void suspend(ServletResponse response);

/**
* Resume a suspended request.
* 
* [ <p> ]
* This method can be called by any thread that has been passed a reference
* to a continuation. When called the request is redispached to the
* normal filter chain and servlet processing with [ @link isInitial() ] false.
* [ </p> ]
* 
* If resume is called before a suspended request is returned to the
* container (ie the thread that called [ @link suspend() ] is still
* within the filter chain and/or servlet service method), then the resume
* does not take effect until the call to the filter chain and/or servlet
* returns to the container. In this case both [ @link isSuspended() ] and
* [ @link isResumed() ] return true. Multiple calls to resume are ignored.
* [ </p> ]
* 
* Typically resume() is used after a call to [ @link suspend() ] with
* no arguments. The dispatch after a resume call will use the original
* request and response objects, even if [ @link suspend(ServletResponse) ]
* had been passed a wrapped response.
* [ </p> ]
* 
* [ @see suspend() ]
* [ @exception IllegalStateException ] if the request is not suspended.
* 
*/

void resume();

/**
* Complete a suspended request.
* 
* [ <p> ]
* This method can be called by any thread that has been passed a reference
* to a suspended request. When a request is completed, the associated
* response object committed and flushed. The request is not redispached.

* </p>

* </p>

* If complete is called before a suspended request is returned to the

* container (ie the thread that called \{ \@link #suspend() \} is still

* within the filter chain and/or servlet service method), then the complete

* does not take effect until the call to the filter chain and/or servlet

* returns to the container. In this case both \{ \@link #isSuspended() \} and

* \{ \@link #isResumed() \} return true.

* </p>

* </p>

* Typically resume() is used after a call to \{ \@link #suspend(ServletResponse) \} with

* a possibly wrapped response. The async handler should use the response

* provided by \{ \@link #getServletResponse() \} to write the response before

* calling \{ \@link #complete() \}. If the request was suspended with a

* call to \{ \@link #suspend() \} then no response object will be available via

* \{ \@link #getServletResponse() \}.

* </p>

* </p>

* Once complete has been called and any thread calling the filter chain

* and/or servlet chain has returned to the container, the request lifecycle

* is complete. The container is able to recycle request objects, so it is

* not valid hold a request or continuation reference after the end of the

* life cycle.

* 

* \@see #suspend()

* \@exception IllegalStateException

* if the request is not suspended.

* */

void complete();

/* ------------------------------- */
/**

* @return true after \{ \@link #suspend() \} has been called and before the

* request has been redispached due to being resumed, completed or

* timed out.

*/

boolean isSuspended();

/* ------------------------------- */
/**

* @return true if the request has been redispached by a call to

* \{ \@link #resume() \}. Returns false after any subsequent call to

* suspend
boolean isResumed();

boolean isExpired();

boolean isInitial();

boolean isResponseWrapped();

ServletResponse getServletResponse();

ServletResponse getServletResponse();

Add a ContinuationListener.
*  
  @param listener
void addContinuationListener(ContinuationListener listener);

/**<-----------------------------------------------*/
/** Set a request attribute.
 * This method is a convenience method to call the [ServletRequest#setAttribute(String, Object)]
 * method on the associated request object.
 * This is a thread safe call and may be called by any thread.
 * @param name the attribute name
 * @param attribute the attribute value
 */
public void setAttribute(String name, Object attribute);

/**<-----------------------------------------------*/
/** Get a request attribute.
 * This method is a convenience method to call the [ServletRequest#getAttribute(String)]
 * method on the associated request object.
 * This is a thread safe call and may be called by any thread.
 * @param name the attribute name
 * @return the attribute value
 */
public Object getAttribute(String name);

/**<-----------------------------------------------*/
/** Remove a request attribute.
 * This method is a convenience method to call the [ServletRequest#removeAttribute(String)]
 * method on the associated request object.
 * This is a thread safe call and may be called by any thread.
 * @param name the attribute name
 */
public void removeAttribute(String name);

/**<-----------------------------------------------*/
/** Undispatch the request.
 * <p>
 * This method can be called on a suspended continuation in order
 * to exit the dispatch to the filter/servlet by throwing a [ContinuationThrowable]
 * which is caught either by the container or the ContinuationFilter.
 * This is an alternative to simply returning from the dispatch in the case
 * where filters in the filter chain may not be prepared to handle a suspended
 * request.
 * </p>
 * This method should only be used as a last resort and a normal return is a prefereable
 * solution if filters can be updated to handle that case.
 * @throws ContinuationThrowable thrown if the request is suspended. The instance of the
 * exception may be reused on subsequent calls, so the stack frame may not be accurate.
 */
public void undispatch() throws ContinuationThrowable;
}

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package org.eclipse.jetty.http;

import java.io.IOException;
import org.eclipse.jetty.io.Buffer;
import org.eclipse.jetty.io.Buffers;
import org.eclipse.jetty.io.ByteArrayBuffer;
import org.eclipse.jetty.io.EndPoint;
import org.eclipse.jetty.io.View;
import org.eclipse.jetty.util.log.Log;
import org.eclipse.jetty.util.log.Logger;

/* ----- */
/**
 *
 * Currently this class uses a system parameter "jetty.direct.writers" to control
 * two optional writer to byte conversions. buffer.writers=true will probably be
 * faster, but will consume more memory. This option is just for testing and tuning.
 *
 */

public abstract class AbstractGenerator implements Generator
{
    private static final Logger LOG = Log.getLogger(AbstractGenerator.class);

    // states
    public final static int STATE_HEADER = 0;
    public final static int STATE_CONTENT = 2;
    public final static int STATE_FLUSHING = 3;
    public final static int STATE_END = 4;

    public static final byte[] NO_BYTES = {};

    // data
    protected final Buffers _buffers; // source of buffers
    protected final EndPoint _endp;

    protected int _state = STATE_HEADER;
    protected int _status = 0;
    protected int _version = HttpVersions.HTTP_1_1_ORDINAL;
    protected Buffer _reason;
    protected Buffer _method;
    protected String _uri;

    protected long _contentWritten = 0;
    protected long _contentLength = HttpTokens.UNKNOWN_CONTENT;
    protected boolean _last = false;
    protected boolean _head = false;
    protected boolean _noContent = false;
    protected Boolean _persistent = null;

    protected Buffer _header; // Buffer for HTTP header (and maybe small _content)
    protected Buffer _buffer; // Buffer for copy of passed _content
    protected Buffer _content; // Buffer passed to addContent

    private boolean _sendServerVersion;
/**
 * Constructor.
 *
 * @param buffers buffer pool
 * @param io the end point
 */
public AbstractGenerator(Buffers buffers, EndPoint io)
{
    this._buffers = buffers;
    this._endp = io;
}

public abstract boolean isRequest();

public abstract boolean isResponse();

public boolean isOpen()
{
    return _endp.isOpen();
}

public void reset()
{
    _state = STATE_HEADER;
    _status = 0;
    _version = HttpVersions.HTTP_1_1_ORDINAL;
    _reason = null;
    _last = false;
    _head = false;
    _noContent = false;
    _persistent = false;
    _contentWritten = 0;
    _contentLength = HttpTokens.UNKNOWN_CONTENT;
    _date = null;
    _content = null;
    _method = null;
}

public void returnBuffers()
if (_buffer!=null && _buffer.length()==0)
{
    _buffers.returnBuffer(_buffer);
    _buffer=null;
}

if (_header!=null && _header.length()==0)
{
    _buffers.returnBuffer(_header);
    _header=null;
}

/* ----------------------------------------------- */
public void resetBuffer()
{
    if(_state>=STATE_FLUSHING)
        throw new IllegalStateException("Flushed");

    _last = false;
    _persistent=null;
    _contentWritten = 0;
    _contentLength = HttpTokens.UNKNOWN_CONTENT;
    _content=null;
    if (_buffer!=null)
        _buffer.clear();
}

/* ----------------------------------------------- */
/* * @return Returns the contentBufferSize. */
/**
 * public int getContentBufferSize()

 { if (_buffer==null)
    _buffers_buffers.getBuffer();
    return _buffer.capacity();
 }

/* ----------------------------------------------- */
/**
 * @param contentBufferSize The contentBufferSize to set.
 */
public void increaseContentBufferSize(int contentBufferSize)
{
    if (_buffer==null)
        _buffers_buffers.getBuffer();
    if (contentBufferSize > _buffer.capacity())
Buffer nb = _buffers.getBuffer(contentBufferSize);
    nb.put(_buffer);
    _buffers.returnBuffer(_buffer);
    _buffer = nb;
}

public Buffer getUncheckedBuffer()
{
    return _buffer;
}

public boolean getSendServerVersion ()
{
    return _sendServerVersion;
}

public void setSendServerVersion (boolean sendServerVersion)
{
    _sendServerVersion = sendServerVersion;
}

public int getState()
{
    return _state;
}

public boolean isState(int state)
{
    return _state == state;
}

public boolean isComplete()
{
    return _state == STATE_END;
}

public boolean isIdle()
{
    return _state == STATE_HEADER && _method==null && _status==0;
}
public boolean isCommitted() {
    return _state != STATE_HEADER;
}

public boolean isHead() {
    return _head;
}

public void setContentLength(long value) {
    if (value<0)
        _contentLength=HttpTokens.UNKNOWN_CONTENT;
    else
        _contentLength=value;
}

public void setHead(boolean head) {
    _head = head;
}

public boolean isPersistent() {
    return _persistent!=null
        ?_persistent.booleanValue()
        :(isRequest()?true:_version>HttpVersions.HTTP_1_0_ORDINAL);
}
public void setPersistent(boolean persistent) {
    _persistent=persistent;
}

/** */
/** *
* @param version The version of the client the response is being sent to (NB. Not the version in the response, which is the version of the server).
* /
public void setVersion(int version) {
    if (_state != STATE_HEADER)
        throw new IllegalStateException("STATE!=START "+_state);
    _version = version;
    if (_version==HttpVersions.HTTP_0_9_ORDINAL && _method!=null)
        _noContent=true;
}

/** */
public int getVersion() {
    return _version;
}

/** */
/** *
* @see org.eclipse.jetty.http.Generator#setDate(org.eclipse.jetty.io.Buffer)
* /
public void setDate(Buffer timeStampBuffer) {
    _date=timeStampBuffer;
}

/** */
/** *
* /
public void setRequest(String method, String uri) {
    if (method==null || HttpMethods.GET.equals(method))
        _method=HttpMethods.GET_BUFFER;
    else
        _method=HttpMethods.CACHE.lookup(method);
    _uri=uri;
    if (_version==HttpVersions.HTTP_0_9_ORDINAL)
        _noContent=true;
}
/**
 * @param status The status code to send.
 * @param reason the status message to send.
 */
public void setResponse(int status, String reason)
{
    if (_state != STATE_HEADER) throw new IllegalStateException("STATE!=START");
    _method=null;
    _status = status;
    if (reason!=null)
    {
        int len=reason.length();

        // TODO don't hard code
        if (len>1024)
            len=1024;
        _reason=new ByteArrayBuffer(len);
        for (int i=0;i<len;i++)
        {
            char ch = reason.charAt(i);
            if (ch!='\r'&&ch!='\n')
                _reason.put((byte)ch);
            else
                _reason.put((byte)' ');
        }
    }
}

/** Prepare buffer for unchecked writes.
 * Prepare the generator buffer to receive unchecked writes
 * @return the available space in the buffer.
 * @throws IOException
 */
public abstract int prepareUncheckedAddContent() throws IOException;

void uncheckedAddContent(int b)
{
    _buffer.put((byte)b);
}

public void completeUncheckedAddContent()
{
    if (_noContent)
    {
if(_buffer!=null)
    _buffer.clear();
}
else
{
    _contentWritten+=_buffer.length();
    if (_head)
        _buffer.clear();
}

/* *------------------------------------------------------------- */

public boolean isBufferFull()
{
    if (_buffer != null && _buffer.space()==0)
    {
        if (_buffer.length()==0 && !_buffer.isImmutable())
            _buffer.compact();
        return _buffer.space()==0;
    }
    return _content!=null && _content.length()>0;
}

/* *------------------------------------------------------------- */

public boolean isWritten()
{
    return _contentWritten>0;
}

/* *------------------------------------------------------------- */

public boolean isAllContentWritten()
{
    return _contentLength>=0 && _contentWritten>=_contentLength;
}

/* *------------------------------------------------------------- */

public abstract void completeHeader(HttpFields fields, boolean allContentAdded) throws IOException;

/* *------------------------------------------------------------- */

/* *------------------------------------------------------------- */

/**
   * Complete the message.
   * @throws IOException
   */

public void complete() throws IOException
{
    if (_state == STATE_HEADER)
if (_contentLength >= 0 && _contentLength != _contentWritten && !_head)
{
    if (LOG.isDebugEnabled())
        LOG.debug("ContentLength written=="+_contentWritten+" != contentLength=="+_contentLength);
    _persistent = false;
}

/* ------------------------------------------------------------- */
public abstract int flushBuffer() throws IOException;

/* ------------------------------------------------------------- */
public void flush(long maxIdleTime) throws IOException
{
    // block until everything is flushed
    long now=System.currentTimeMillis();
    long end=now+maxIdleTime;
    Buffer content = _content;
    Buffer buffer = _buffer;
    if (content!=null && content.length()>0 || buffer!=null && buffer.length()>0 || isBufferFull())
    {
        flushBuffer();

        while (now<end && (content!=null && content.length()>0 || buffer!=null && buffer.length()>0) &&
            _endp.isOpen()&& !_endp.isOutputShutdown())
        {
            blockForOutput(end-now);
            now=System.currentTimeMillis();
        }
    }
}

/* ------------------------------------------------------------- */
/**
 * Utility method to send an error response. If the builder is not committed, this call is
 * equivalent to a setResponse, addContent and complete call.
 *
 * @param code The error code
 * @param reason The error reason
 * @param content Contents of the error page
 * @param close True if the connection should be closed
 * @throws IOException if there is a problem flushing the response
 */
public void sendError(int code, String reason, String content, boolean close) throws IOException
{
    if (close)
        _persistent=false;
    if (isCommitted())
    {
        LOG.debug("sendError on committed: {} {}",code,reason);
    }
    else
    {
        LOG.debug("sendError: {} {}",code,reason);
        setResponse(code, reason);
        if (content != null)
        {
            completeHeader(null, false);
            addContent(new View(new ByteArrayBuffer(content)), Generator.LAST);
        }
        else
        {
            completeHeader(null, true);
        }
        complete();
    }
}

/* ------------------------------------------------------------- */
/**
 * @return Returns the contentWritten.
 */
public long getContentWritten()
{
    return _contentWritten;
}

/* ------------------------------------------------------------- */
public void blockForOutput(long maxIdleTime) throws IOException
{
    if (_endp.isBlocking())
    {
        try
        {
            flushBuffer();
        }
        catch(IOException e)
        {
            _endp.close();
        }
    }
}
throw e;
}
}
else
{
    if (!_endp.blockWritable(maxIdleTime))
    {
        _endp.close();
        throw new EofException("timeout");
    }

    flushBuffer();
}

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//
//  ========================================================================
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package org.eclipse.jetty.io;

import java.io.IOException;
import java.io.InputStream;
import java.io.OutputStream;

import org.eclipse.jetty.util.TypeUtil;
import org.eclipse.jetty.util.log.Log;
import org.eclipse.jetty.util.log.Logger;

/**
 *
 *
 */
public abstract class AbstractBuffer implements Buffer
{
    private static final Logger LOG = Log.getLogger(AbstractBuffer.class);

    private final static boolean __boundsChecking =
    Boolean.getBoolean("org.eclipse.jetty.io.AbstractBuffer.boundsChecking");

    private final static String____________IMMUTABLE = "IMMUTABLE",
    __READONLY = "READONLY",
    __READWRITE = "READWRITE",
    __VOLATILE = "VOLATILE";

    protected final static String

    protected int __access;
    protected boolean __volatile;

    protected int __get;
    protected int __put;
    protected int __hash;

protected int _hashGet;
protected int _hashPut;
protected int _mark;
protected String _string;
protected View _view;

/**
 * Constructor for BufferView
 *
 * @param access 0==IMMUTABLE, 1==READONLY, 2==READWRITE
 */
public AbstractBuffer(int access, boolean isVolatile)
{
    if (access == IMMUTABLE && isVolatile)
        throw new IllegalArgumentException("IMMUTABLE && VOLATILE");
    setMarkIndex(-1);
    _access = access;
    _volatile = isVolatile;
}

/*
 * @see org.eclipse.io.Buffer#toArray()
 */
public byte[] asArray()
{
    byte[] bytes = new byte[length()];
    byte[] array = array();
    if (array != null)
        System.arraycopy(array, getIndex(), bytes, 0, bytes.length);
    else
        peek(getIndex(), bytes, 0, length());
    return bytes;
}

public ByteArrayInputStream duplicate(int access)
{
    Buffer b = this.buffer();
    if (this instanceof Buffer.CaseInsensitive || b instanceof Buffer.CaseInsensitive)
        return new ByteArrayInputStream.CaseInsensitive(asArray(), 0, length(), access);
    else
        return new ByteArrayInputStream(asArray(), 0, length(), access);
}

/*
 * @see org.eclipse.io.Buffer#asNonVolatile()
 */
public Buffer asNonVolatileBuffer()

if (!isVolatile()) return this;
return duplicate(_access);
}

public Buffer asImmutableBuffer() {
if (isImmutable()) return this;
return duplicate(IMMUTABLE);
}

/**< * @see org.eclipse.util.Buffer#asReadOnlyBuffer() */
public Buffer asReadOnlyBuffer() {
if (isReadOnly()) return this;
return new View(this, markIndex(), getIndex(), putIndex(), READONLY);
}

public Buffer asMutableBuffer() {
if (!isImmutable()) return this;
Buffer b=this.buffer();
if (b.isReadOnly())
{
return duplicate(READWRITE);
}
return new View(b, markIndex(), getIndex(), putIndex(), _access);
}

public Buffer buffer() {
return this;
}

clear()
{
setMarkIndex(-1);
setGetIndex(0);
setPutIndex(0);
}

public void compact() {
if (isReadOnly()) throw new IllegalStateException(__READONLY);
int s = markIndex() >= 0 ? markIndex() : getIndex();
if (s > 0)
byte array[] = array();
int length = putIndex() - s;
if (length > 0)
{
    if (array != null)
        System.arraycopy(array(), s, array(), 0, length);
    else
        poke(0, peek(s, length));
}
if (markIndex() > 0) setMarkIndex(markIndex() - s);
setGetIndex(getIndex() - s);
setPutIndex(putIndex() - s);

@Override
public boolean equals(Object obj)
{
    if (obj==this)
        return true;

    // reject non buffers;
    if (obj == null || !(obj instanceof Buffer)) return false;
    Buffer b = (Buffer) obj;

    if (this instanceof Buffer.CaseInsensitive || b instanceof Buffer.CaseInsensitive)
        return equalsIgnoreCase(b);

    // reject different lengths
    if (b.length() != length()) return false;

    // reject AbstractBuffer with different hash value
    if (_hash != 0 && obj instanceof AbstractBuffer)
    {
        AbstractBuffer ab = (AbstractBuffer) obj;
        if (ab._hash != 0 && _hash != ab._hash) return false;
    }

    // Nothing for it but to do the hard grind.
    int get=getIndex();
    int bi=b.putIndex();
    for (int i = putIndex(); i-->get;)
    {
        byte b1 = peek(i);
        byte b2 = b.peek(--bi);
        if (b1 != b2) return false;
    }
}
return true;
}

public boolean equalsIgnoreCase(Buffer b)
{
    if (b==this)
        return true;

    // reject different lengths
    if (b.length() != length()) return false;

    // reject AbstractBuffer with different hash value
    if (_hash != 0 && b instanceof AbstractBuffer)
    {
        AbstractBuffer ab = (AbstractBuffer) b;
        if (ab._hash != 0 && _hash != ab._hash) return false;
    }

    // Nothing for it but to do the hard grind.
    int get=getIndex();
    int bi=b.putIndex();

    byte[] array = array();
    byte[] barray= b.array();
    if (array!=null && barray!=null)
    {
        for (int i = putIndex(); i-->get;)
        {
            byte b1 = array[i];
            byte b2 = barray[--bi];
            if (b1 != b2)
            {
                if ('a' <= b1 && b1 <= 'z') b1 = (byte) (b1 - 'a' + 'A');
                if ('a' <= b2 && b2 <= 'z') b2 = (byte) (b2 - 'a' + 'A');
                if (b1 != b2) return false;
            }
        }
    }
    else
    {
        for (int i = putIndex(); i-->get;)
        {
            byte b1 = peek(i);
            byte b2 = b.peek(--bi);
            if (b1 != b2)
            {
                if ('a' <= b1 && b1 <= 'z') b1 = (byte) (b1 - 'a' + 'A');
                if ('a' <= b2 && b2 <= 'z') b2 = (byte) (b2 - 'a' + 'A');
                if (b1 != b2) return false;
            }
        }
    }
if (b1 != b2) return false;

return true;

public byte get()
{
    return peek(_get++);
}

public int get(byte[] b, int offset, int length)
{
    int gi = getIndex();
    int l=length();
    if (l==0)
        return -1;
    if (length>l)
        length=l;
    length = peek(gi, b, offset, length);
    if (length>0)
        setGetIndex(gi + length);
    return length;
}

public Buffer get(int length)
{
    int gi = getIndex();
    Buffer view = peek(gi, length);
    setGetIndex(gi + length);
    return view;
}

public final int getIndex()
{
    return _get;
}

public boolean hasContent()
{
    return _put > _get;
}

@Override
public int hashCode()
if (_hash == 0 || _hashGet!=_get || _hashPut!=_put)
{
    int get=getIndex();
    byte[] array = array();
    if (array==null)
    {
        for (int i = putIndex(); i-- >get;)
        {
            byte b = peek(i);
            if (a' <= b & b <= 'z')
                b = (byte) (b - 'a' + 'A');
            _hash = 31 * _hash + b;
        }
    }
    else
    {
        for (int i = putIndex(); i-- >get;)
        {
            byte b = array[i];
            if (a' <= b & b <= 'z')
                b = (byte) (b - 'a' + 'A');
            _hash = 31 * _hash + b;
        }
    }
    if (_hash == 0)
        _hash = -1;
    _hashGet=_get;
    _hashPut=_put;
}
    return _hash;
}

public boolean isImmutable()
{
    return _access <= IMMUTABLE;
}

public boolean isReadOnly()
{
    return _access <= READONLY;
}

public boolean isVolatile()
{
    return _volatile;
}
public int length()
{
    return _put - _get;
}

public void mark()
{
    setMarkIndex(_get - 1);
}

public void mark(int offset)
{
    setMarkIndex(_get + offset);
}

public int markIndex()
{
    return _mark;
}

public byte peek()
{
    return peek(_get);
}

public Buffer peek(int index, int length)
{
    if (_view == null)
    {
        _view = new View(this, -1, index, index + length, isReadOnly() ? READONLY : READWRITE);
    }
    else
    {
        _view.update(this.buffer());
        _view.setMarkIndex(-1);
        _view.setGetIndex(0);
        _view.setPutIndex(index + length);
        _view.setGetIndex(index);
    }
    return _view;
}

public int poke(int index, Buffer src)
{
    _hash=0;
    /*
if (isReadOnly())
    throw new IllegalStateException("_READONLY");
if (index < 0)
    throw new IllegalArgumentException("index<0: " + index + "," + "<0");
*/

int length=src.length();
if (index + length > capacity())
{
    length=capacity()-index;
    /*
    if (length<0)
        throw new IllegalArgumentException("index>capacity(): " + index + "," + ">" + capacity());
    */
}

byte[] src_array = src.array();
byte[] dst_array = array();
if (src_array != null & dst_array != null)
    System.arraycopy(src_array, src.getIndex(), dst_array, index, length);
else if (src_array != null)
{
    int s=src.getIndex();
    for (int i=0;i<length;i++)
        poke(index++,src_array[s++]);
}
else if (dst_array != null)
{
    int s=src.getIndex();
    for (int i=0;i<length;i++)
        dst_array[index++]=src.peek(s++);
}
else
{
    int s=src.getIndex();
    for (int i=0;i<length;i++)
        poke(index++,src.peek(s++));
}

return length;
}

public int poke(int index, byte[] b, int offset, int length)
{
    _hash=0;
    /*
    if (isReadOnly())
throw new IllegalStateException(__READONLY);
if (index < 0)
    throw new IllegalArgumentException("index<0: " + index + "<0");
*/
if (index + length > capacity())
{
    length=capacity()-index;
    /* if (length<0)
        throw new IllegalArgumentException("index>capacity(): " + index + ">" + capacity());
    */
}
byte[] dst_array = array();
if (dst_array != null)
    System.arraycopy(b, offset, dst_array, index, length);
else
{
    int s=offset;
    for (int i=0;i<length;i++)
        poke(index++,b[s++]);
}
return length;
}

public int put(Buffer src)
{
    int pi = putIndex();
    int l=poke(pi, src);
    setPutIndex(pi + l);
    return l;
}

public void put(byte b)
{
    int pi = putIndex();
    poke(pi, b);
    setPutIndex(pi + 1);
}

public int put(byte[] b, int offset, int length)
{
    int pi = putIndex();
    int l = poke(pi, b, offset, length);
    setPutIndex(pi + l);
    return l;
}

public int put(byte[] b)
{ int pi = putIndex();
int l = poke(pi, b, 0, b.length);
setPutIndex(pi + l);
return l;
}

public final int putIndex()
{
    return _put;
}

public void reset()
{
    if (markIndex() >= 0) setGetIndex(markIndex());
}

public void rewind()
{
    setGetIndex(0);
    setMarkIndex(-1);
}

public void setGetIndex(int getIndex)
{
    /* bounds checking
    if (isImmutable())
        throw new IllegalStateException(__IMMUTABLE);
    if (getIndex < 0)
        throw new IllegalArgumentException("getIndex<0: " + getIndex + ",<0");
    if (getIndex > putIndex())
        throw new IllegalArgumentException("getIndex>putIndex: " + getIndex + "," + putIndex());
    */
    _get = getIndex;
    _hash=0;
}

public void setMarkIndex(int index)
{
    /*
    if (index>=0 && isImmutable())
        throw new IllegalStateException(__IMMUTABLE);
    */
    _mark = index;
}

public void setPutIndex(int putIndex)
{
/* bounds checking
if (isImmutable())
    throw new IllegalStateException(__IMMUTABLE);
if (putIndex > capacity())
    throw new IllegalArgumentException("putIndex>capacity: " + putIndex + ">" + capacity());
if (getIndex() > putIndex)
    throw new IllegalArgumentException("getIndex>putIndex: " + getIndex() + ">" + putIndex);
*/
_put = putIndex;
_hash=0;
}

public int skip(int n)
{
    if (length() < n) n = length();
    setGetIndex(getIndex() + n);
    return n;
}

public Buffer slice()
{
    return peek(getIndex(), length());
}

public Buffer sliceFromMark()
{
    return sliceFromMark(getIndex() - markIndex() - 1);
}

public Buffer sliceFromMark(int length)
{
    if (markIndex() < 0) return null;
    Buffer view = peek(markIndex(), length);
    setMarkIndex(-1);
    return view;
}

public int space()
{
    return capacity() - _put;
}

public String toDetailString()
{
    StringBuilder buf = new StringBuilder();
    buf.append("[");
    buf.append(super.hashCode());
    buf.append(",");
    buf.append(super.hashCode());
    buf.append(",");
    return buf.toString();
}
buf.append(this.buffer().hashCode());
buf.append("m=");
buf.append(markIndex());
buf.append("g=");
buf.append(getIndex());
buf.append("p=");
buf.append(putIndex());
buf.append("c=");
buf.append(capacity());
buf.append("\}={");
if (markIndex() >= 0)
{
    for (int i = markIndex(); i < getIndex(); i++)
    {
        byte b = peek(i);
        TypeUtil.toHex(b,buf);
    }
    buf.append("}\{");
}
int count = 0;
for (int i = getIndex(); i < putIndex(); i++)
{
    byte b = peek(i);
    TypeUtil.toHex(b,buf);
    if (count++ == 50)
    {
        if (putIndex() - i > 20)
        {
            buf.append(" ... ");
            i = putIndex() - 20;
        }
    }
    buf.append('}');
    return buf.toString();
}

/* ---------------------------------------------------------- */

@Override
public String toString()
{
    if (isImmutable())
    {
        if (_string == null)
            _string = new String(asArray(), 0, length());
        return _string;
    }
    return new String(asArray(), 0, length());
}
public String toString(String charset)
{
    try
    {
        byte[] bytes = array();
        if (bytes != null)
            return new String(bytes, getIndex(), length(), charset);
        return new String(asArray(), 0, length(), charset);
    }
    catch (Exception e)
    {
        LOG.warn(e);
        return new String(asArray(), 0, length());
    }
}

public String toDebugString()
{
    return getClass() + "@" + super.hashCode();
}

public void writeTo(OutputStream out) throws IOException
{
    byte[] array = array();

    if (array != null)
    {
        out.write(array, getIndex(), length());
    }
    else
    {
        int len = this.length();
        byte[] buf = new byte[len > 1024 ? 1024 : len];
        int offset = _get;
        while (len > 0)
        {
            int l = peek(offset, buf, 0, len > buf.length ? buf.length : len);
            out.write(buf, 0, l);
            offset += l;
            len -= l;
        }
    }
}
public int readFrom(InputStream in, int max) throws IOException {
    byte[] array = array();
    int s = space();
    if (s > max)
        s = max;

    if (array != null) {
        int l = in.read(array, _put, s);
        if (l > 0)
            _put += l;
        return l;
    } else {
        byte[] buf = new byte[s > 1024 ? 1024 : s];
        int total = 0;
        while (s > 0) {
            int l = in.read(buf, 0, buf.length);
            if (l < 0)
                return total > 0 ? total : -1;
            int p = put(buf, 0, l);
            assert l == p;
            s -= l;
        }
        return total;
    }
}

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//
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//
package org.eclipse.jetty.servlet;

import java.io.FileNotFoundException;
import java.io.IOException;
import java.io.InputStream;
import java.io.OutputStream;
import java.net.MalformedURLException;
import java.net.URL;
import java.util.ArrayList;
import java.util.Enumeration;
import java.util.List;
import java.util.Map;
import javax.servlet.RequestDispatcher;
import javax.servlet.ServletContext;
import javax.servlet.ServletException;
import javax.servlet.UnavailableException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import org.eclipse.jetty.http.HttpContent;
import org.eclipse.jetty.http.HttpHeaderValues;
import org.eclipse.jetty.http.MimeTypes;
import org.eclipse.jetty.io.Buffer;
import org.eclipse.jetty.io.ByteArrayBuffer;
import org.eclipse.jetty.io.WriterOutputStream;
import org.eclipse.jetty.server.AbstractHttpConnection;
import org.eclipse.jetty.server.Connector;
import org.eclipse.jetty.server.Dispatcher;
import org.eclipse.jetty.server.HttpOutput;
import org.eclipse.jetty.server.InclusiveByteRange;
import org.eclipse.jetty.server.ResourceCache;
import org.eclipse.jetty.server.Response;
import org.eclipse.jetty.server.handler.ContextHandler;
import org.eclipse.jetty.server.nio.NIOConnector;
import org.eclipse.jetty.server.ssl.SslConnector;
import org.eclipse.jetty.util.IO;
import org.eclipse.jetty.util.MultiPartOutputStream;
import org.eclipse.jetty.util.URIUtil;
import org.eclipse.jetty.util.log.Log;
import org.eclipse.jetty.util.log.Logger;
import org.eclipse.jetty.util.resource.FileResource;
import org.eclipse.jetty.util.resource.Resource;
import org.eclipse.jetty.util.resource.ResourceCollection;
import org.eclipse.jetty.util.resource.ResourceFactory;

/* ----------------------------------------------- */
/** The default servlet.
* This servlet, normally mapped to /, provides the handling for static
* content, OPTION and TRACE methods for the context.
* The following initParameters are supported, these can be set either
* on the servlet itself or as ServletContext initParameters with a prefix
* of org.eclipse.jetty.servlet.Default. :
* <PRE>
* acceptRanges      If true, range requests and responses are
*                      supported
* dirAllowed        If true, directory listings are returned if no
*                      welcome file is found. Else 403 Forbidden.
* welcomeServlets   If true, attempt to dispatch to welcome files
*                      that are servlets, but only after no matching static
*                      resources could be found. If false, then a welcome
*                      file must exist on disk. If "exact", then exact
*                      servlet matches are supported without an existing file.
*                      Default is true.
* This must be false if you want directory listings,
* but have index.jsp in your welcome file list.
* redirectWelcome   If true, welcome files are redirected rather than
*                      forwarded to.
* gzip              If set to true, then static content will be served as
*                      gzip content encoded if a matching resource is
*                      found ending with ".gz"
* resourceBase      Set to replace the context resource base
*/
/* ----------------------------------------------- */
resourceCache  If set, this is a context attribute name, which the servlet
        will use to look for a shared ResourceCache instance.

relativeResourceBase
        Set with a pathname relative to the base of the
        servlet context root. Useful for only serving static content out
        of only specific subdirectories.

pathInfoOnly  If true, only the path info will be applied to the resourceBase

stylesheet  Set with the location of an optional stylesheet that will be used
        to decorate the directory listing html.

aliases  If True, aliases of resources are allowed (eg. symbolic
        links and caps variations). May bypass security constraints.

maxCacheSize  The maximum total size of the cache or 0 for no cache.
maxCachedFileSize  The maximum size of a file to cache
maxCachedFiles  The maximum number of files to cache

useFileMappedBuffer
        If set to true, it will use mapped file buffer to serve static content
        when using NIO connector. Setting this value to false means that
        a direct buffer will be used instead of a mapped file buffer.
        By default, this is set to true.

cacheControl  If set, all static content will have this value set as the cache-control
        header.

*/

public class DefaultServlet extends HttpServlet implements ResourceFactory
{
    private static final Logger LOG = Log.getLogger(DefaultServlet.class);

    private static final long serialVersionUID = 4930458713846881193L;
    private ServletContext _servletContext;
    private ContextHandler _contextHandler;

    private boolean _acceptRanges=true;
    private boolean _dirAllowed=true;
    private boolean _welcomeServlets=false;
private boolean _welcomeExactServlets=false;
private boolean _redirectWelcome=false;
private boolean _gzip=true;
private boolean _pathInfoOnly=false;

private Resource _resourceBase;
private ResourceCache _cache;

private MimeTypes _mimeTypes;
private String[] _welcomes;
private Resource _stylesheet;
private boolean _useFileMappedBuffer=false;
private ByteArrayBuffer _cacheControl;
private String _relativeResourceBase;
private ServletHandler _servletHandler;
private ServletHolder _defaultHolder;

/* ------------------------------- */
@Override
public void init()
throws UnavailableException
{
    _servletContext=getServletContext();
    _contextHandler = initContextHandler(_servletContext);

    _mimeTypes = _contextHandler.getMimeTypes();

    _welcomes = _contextHandler.getWelcomeFiles();
    if (_welcomes==null)
        _welcomes=new String[] {"index.html","index.jsp"};

    _acceptRanges=getInitBoolean("acceptRanges",_acceptRanges);
    _dirAllowed=getInitBoolean("dirAllowed",_dirAllowed);
    _redirectWelcome=getInitBoolean("redirectWelcome",_redirectWelcome);
    _gzip=getInitBoolean("gzip",_gzip);
    _pathInfoOnly=getInitBoolean("pathInfoOnly",_pathInfoOnly);

    if ("exact".equals(getInitParameter("welcomeServlets")))
    {
        _welcomeExactServlets=true;
        _welcomeServlets=false;
    }
    else
        _welcomeServlets=getInitBoolean("welcomeServlets", _welcomeServlets);

    if (getInitParameter("aliases")!=null)
        _contextHandler.setAliases(getInitBoolean("aliases",false));
boolean aliases=_contextHandler.isAliases();
if (!aliases && !FileResource.getCheckAliases())
    throw new IllegalStateException("Alias checking disabled");
if (aliases)
    _servletContext.log("Aliases are enabled");

_useFileMappedBuffer=getInitBoolean("useFileMappedBuffer",_useFileMappedBuffer);

_relativeResourceBase = getInitParameter("relativeResourceBase");

String rb=getInitParameter("resourceBase");
if (rb!=null)
{
    if (_relativeResourceBase!=null)
        throw new UnavailableException("resourceBase & relativeResourceBase");
    try{ _resourceBase=_contextHandler.newResource(rb);}
    catch (Exception e)
    {
        LOG.warn(Log.EXCEPTION,e);
        throw new UnavailableException(e.toString());
    }
}

String css=getInitParameter("stylesheet");
try
{
    if(css!=null)
    {
        _stylesheet = Resource.newResource(css);
        if(!_stylesheet.exists())
        {
            LOG.warn("!" + css);
            _stylesheet = null;
        }
    }
    if(_stylesheet == null)
    {
        _stylesheet = Resource.newResource(this.getClass().getResource("/jetty-dir.css"));
    }
}catch(Exception e)
{
    LOG.warn(e.toString());
    LOG.debug(e);
}

String t=getInitParameter("cacheControl");
if (t!=null)
    _cacheControl=new ByteArrayBuffer(t);

String resourceCache = getInitParameter("resourceCache");
int max_cache_size=getInitInt("maxCacheSize", -2);
int max_cached_file_size=getInitInt("maxCachedFileSize", -2);
int maxCachedFiles=getInitInt("maxCachedFiles", -2);
if (resourceCache!=null)
    {
        if (max_cache_size!=-1 || maxCachedFileSize!=-2 || maxCachedFiles!=-2)
            LOG.debug("ignoring resource cache configuration, using resourceCache attribute");
        if (_relativeResourceBase!=null || _resourceBase!=null)
            throw new UnavailableException("resourceCache specified with resource bases");
        _cache=(ResourceCache)_servletContext.getAttribute(resourceCache);
        LOG.debug("Cache {}={}",resourceCache,_cache);
    }

try
    {
        if (_cache==null && maxCachedFiles>0)
        {
            _cache= new ResourceCache(null,this,_mimeTypes,_useFileMappedBuffer);
            if (max_cache_size>0)
                _cache.setMaxCacheSize(max_cache_size);
            if (maxCachedFileSize>=-1)
                _cache.setMaxCachedFileSize(maxCachedFileSize);
            if (maxCachedFiles>=-1)
                _cache.setMaxCachedFiles(maxCachedFiles);
        }
    }
catch (Exception e)
    {
        LOG.warn(Log.EXCEPTION,e);
        throw new UnavailableException(e.toString());
    }

=_servletHandler= (ServletHandler) _contextHandler.getChildHandlerByClass(ServletHandler.class);
for (ServletHolder h : _servletHandler.getServlets())
    if (h.getServletInstance()==this)
        _defaultHolder=h;

if (LOG.isDebugEnabled())
    LOG.debug("resource base = "+_resourceBase);

/**
* Compute the field _contextHandler.<br/>
* In the case where the DefaultServlet is deployed on the HttpService it is likely that
* this method needs to be overwritten to unwrap the ServletContext facade until we reach
* the original jetty’s ContextHandler.
* @param servletContext The servletContext of this servlet.
* @return the jetty’s ContextHandler for this servletContext.
*/
protected ContextHandler initContextHandler(ServletContext servletContext)
{
    ContextHandler.Context scontext=ContextHandler.getCurrentContext();
    if (scontext==null)
    {
        if (servletContext instanceof ContextHandler.Context)
        else
            throw new IllegalArgumentException("The servletContext "+servletContext+" is not "+ContextHandler.Context.class.getName());
    }
    else
        return ContextHandler.getCurrentContext().getContextHandler();
}

/* ------------------------------------------------------------- */
@Override
public String getInitParameter(String name)
{
    String value=getServletContext().getInitParameter("org.eclipse.jetty.servlet.Default."+name);
    if (value==null)
        value=super.getInitParameter(name);
    return value;
}

/* ------------------------------------------------------------- */
private boolean getInitBoolean(String name, boolean dft)
{
    String value=getInitParameter(name);
    if (value==null || value.length()==0)
        return dft;
    return (value.startsWith("t")||
            value.startsWith("T")||
            value.startsWith("y")||
            value.startsWith("Y")||
            value.startsWith("1");
}

/* ------------------------------------------------------------- */
private int getInitInt(String name, int dft)
{
String value=getInitParameter(name);
if (value==null)
    value=getInitParameter(name);
if (value!=null && value.length()>0)
    return Integer.parseInt(value);
return dft;
}

/* ------------------------------------------------------------- */
/** get Resource to serve. */
/** Map a path to a resource. The default implementation calls
* HttpContext.getResource but derived servlets may provide
* their own mapping. 
* @param pathInContext The path to find a resource for. 
* @return The resource to serve. */
*/
public Resource getResource(String pathInContext)
{
    Resource r=null;
    if (_relativeResourceBase!=null)
        pathInContext=URIUtil.addPaths(_relativeResourceBase,pathInContext);
    try
    {
        if (_resourceBase!=null)
        {
            r = _resourceBase.addPath(pathInContext);
        }
        else
        {
            URL u = _servletContext.getResource(pathInContext);
            r = _contextHandler.newResource(u);
        }
        if (LOG.isDebugEnabled())
            LOG.debug("Resource "+pathInContext+"="+r);
    }
    catch (IOException e)
    {
        LOG.ignore(e);
    }
    if((r==null || !r.exists()) && pathInContext.endsWith("/jetty-dir.css")
        r=_stylesheet;
    return r;
}
/*  *---------------------------------------------------------------------------*/

@Override
protected void doGet(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException
{
String servletPath=null;
String pathInfo=null;
Enumeration<String> reqRanges = null;
Boolean included = request.getAttribute(Dispatcher.INCLUDE_REQUEST_URI)!=null;
if (included!=null & & included.booleanValue())
{
servletPath=(String)request.getAttribute(Dispatcher.INCLUDE_SERVLET_PATH);
pathInfo=(String)request.getAttribute(Dispatcher.INCLUDE_PATH_INFO);
if (servletPath==null)
{
    servletPath=request.getServletPath();
p
    pathInfo=request.getPathInfo();
}
}
else
{
    included = Boolean.FALSE;
    servletPath = _pathInfoOnly?"/":request.getServletPath();
p
    pathInfo = request.getPathInfo();

    // Is this a Range request?
    reqRanges = request.getHeaders(HttpHeaders.RANGE);
    if (!hasDefinedRange(reqRanges))
        reqRanges = null;
}

String pathInContext=URIUtil.addPaths(servletPath,pathInfo);
boolean endsWithSlash=(pathInfo==null?request.getServletPath():pathInfo).endsWith(URIUtil.SLASH);

    // Can we gzip this request?
String pathInContextGz=null;
boolean gzip=false;
if (!included.booleanValue() & & _gzip & & reqRanges==null & & !endsWithSlash )
{
    // Tell caches that response may vary by accept-encoding
    response.setHeader(HttpHeaders.VARY,HttpHeaders.ACCEPT_ENCODING);
    // Should we vary this response according to accept-encoding?
    String accept=request.getHeader(HttpHeaders.ACCEPT_ENCODING);
    if (accept!=null & & accept.indexOf("gzip")>=0)
        gzip=true;
}

    // Find the resource and content
try {
  // Try gzipped content first
  if (gzip) {
    pathInContextGz = pathInContext + ".gz";
    if (_cache == null) {
      resource = getResource(pathInContextGz);
    } else {
      content = _cache.lookup(pathInContextGz);
      resource = (content == null) ? null : content.getResource();
    }
  }
  if (resource == null || !resource.exists() || resource.isDirectory()) {
    gzip = false;
    pathInContextGz = null;
  }
}

// find resource
if (!gzip) {
  if (_cache == null) {
    resource = getResource(pathInContext);
  } else {
    content = _cache.lookup(pathInContext);
    resource = (content == null) ? null : content.getResource();
  }
}

if (LOG.isDebugEnabled())
  LOG.debug("uri=" + request.getRequestURI() + " resource=" + resource + (content == null ? " null" : "");

// Handle resource
if (resource == null || !resource.exists()) {
  if (included)
    throw new FileNotFoundException("!" + pathInContext);
  response.sendError(HttpServletResponse.SC_NOT_FOUND);
}
else if (!resource.isDirectory())
{
    if (endsWithSlash && _contextHandler.isAliases() && pathInContext.length()>1)
    {
        String q=request.getQueryString();
        pathInContext=pathInContext.substring(0,pathInContext.length()-1);
        if (q!="" && q.length()!=0)
            pathInContext+="?"+q;
        response.sendRedirect(response.encodeRedirectURL(URIUtil.addPaths(_servletContext.getContextPath(),pathInContext)));
    }
    else
    {
        // ensure we have content
        if (content==null)
            content=new HttpContent.ResourceAsHttpContent(resource,_mimeTypes.getMimeByExtension(resource.toString()),response.getBufferSize());

        if (included.booleanValue() || passConditionalHeaders(request,response, resource,content))
        {
            if (gzip)
            {
                response.setHeader(HttpHeaders.CONTENT_ENCODING,"gzip");
                String mt=_servletContext.getMimeType(pathInContext);
                if (mt!=null)
                    response.setContentType(mt);
            }
            sendData(request,response,included.booleanValue(),resource,content,reqRanges);
        }
    }
}
else
{
    String welcome=null;

    if (endsWithSlash || (pathInContext.length()==1 &&
    request.getAttribute("org.eclipse.jetty.server.nullPathInfo")!=null))
    {
        StringBuffer buf=request.getRequestURL();
        synchronized(buf)
        {
            int param=buf.lastIndexOf(";");
            if (param<0)
                buf.append('/');
            else
                buf.insert(param,'/');


```
String q=request.getQueryString();
if (q!=null&&q.length()!=0)
{
    buf.append('?');
    buf.append(q);
}
response.setContentLength(0);
response.sendRedirect(response.encodeRedirectURL(buf.toString()));
}

// else look for a welcome file
else if (null!=(welcome=getWelcomeFile(pathInContext)))
{
    LOG.debug("welcome={ }",welcome);
    if (_redirectWelcome)
    {
        // Redirect to the index
        response.setContentLength(0);
        String q=request.getQueryString();
        if (q!=null&&q.length()!=0)
            response.sendRedirect(response.encodeRedirectURL(URIUtil.addPaths(_servletContext.getContextPath(),welcome)+""+q));
        else
            response.sendRedirect(response.encodeRedirectURL(URIUtil.addPaths(_servletContext.getContextPath(),welcome)));
    }
    else
    {
        // Forward to the index
        RequestDispatcher dispatcher=request.getRequestDispatcher(welcome);
        if (dispatcher!=null)
        {
            if (included.booleanValue())
                dispatcher.include(request,response);
            else
                {
                    request.setAttribute("org.eclipse.jetty.server.welcome",welcome);
                    dispatcher.forward(request,response);
                }
        }
    }
}
else
{
    content=new HttpContent.ResourceAsHttpContent(resource,_mimeTypes.getMimeByExtension(resource.toString()));
    if (included.booleanValue() || passConditionalHeaders(request,response, resource,content))
        sendDirectory(request,response,resource,pathInContext);
catch(IllegalArgumentException e) {
    LOG.warn(Log.EXCEPTION, e);
    if (!response.isCommitted())
        response.sendError(500, e.getMessage());
}
finally {
    if (content != null)
        content.release();
    else if (resource != null)
        resource.release();
}

/* ------------------------------- */
private boolean hasDefinedRange(Enumeration<String> reqRanges) {
    return (reqRanges != null && reqRanges.hasMoreElements());
}

/* ------------------------------- */
@Override
protected void doPost(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException {
    doGet(request, response);
}

/* ------------------------------- */
/* (non-Javadoc) */
@Override
protected void doTrace(HttpServletRequest req, HttpServletResponse resp)
    throws ServletException, IOException {
    resp.sendError(HttpServletResponse.SC_METHOD_NOT_ALLOWED);
}

/* ------------------------------- */
/*@Override*/
protected void doOptions(HttpServletRequest req, HttpServletResponse resp)
    throws ServletException, IOException {
    resp.sendError(HttpServletResponse.SC_METHOD_NOT_ALLOWED);
}
{
    resp.setHeader("Allow", "GET,HEAD,POST,OPTIONS");
}

/* ................................................................. */
/**
 * Finds a matching welcome file for the supplied { @link Resource }. This will be the first entry in the list of
 * configured { @link #_welcomes welcome files } that existing within the directory referenced by the
 * <code>Resource</code>.  
 * If the resource is not a directory, or no matching file is found, then it may look for a valid servlet mapping.
 * If there is none, then <code>null</code> is returned.
 * The list of welcome files is read from the { @link ContextHandler } for this servlet, or
 * <code>"index.jsp" , "index.html"</code> if that is <code>null</code>.  
 * @param resource
 * @return The path of the matching welcome file in context or null.
 * @throws IOException
 * @throws MalformedURLException
 */
private String getWelcomeFile(String pathInContext) throws MalformedURLException, IOException
{
    if (_welcomes==null)
        return null;
    String welcome_servlet=null;
    for (int i=0;i<_welcomes.length;i++)
    {
        String welcome_in_context=URIUtil.addPaths(pathInContext,_welcomes[i]);
        Resource welcome=getResource(welcome_in_context);
        if (welcome!=null && welcome.exists())
            return _welcomes[i];
        if ((_welcomeServlets || _welcomeExactServlets) && welcome_servlet==null)
        {
            Map.Entry entry=_servletHandler.getHolderEntry(welcome_in_context);
            if (entry!=null && entry.getValue()!=_defaultHolder &&
                (_welcomeServlets || (_welcomeExactServlets && entry.getKey().equals(welcome_in_context))))
                welcome_servlet=welcome_in_context;
        }
    }
    return welcome_servlet;
}
/* ................................................................. */
/** Check modification date headers. */
protected boolean passConditionalHeaders(HttpServletRequest request,HttpServletResponse response, Resource
resource, HttpContent content)
throws IOException
{
    try
    {
        if (!request.getMethod().equals(HttpMethods.HEAD) )
        {
            String ifms=request.getHeader(HttpHeaders.IF_MODIFIED_SINCE);
            if (ifms!=null)
            {
                //Get jetty's Response impl
                Response r = Response.getResponse(response);

                if (content!=null)
                {
                    Buffer mdlm=content.getLastModified();
                    if (mdlm!=null)
                    {
                        if (ifms.equals(mdlm.toString()))
                        {
                            r.reset(true);
                            r.setStatus(HttpServletResponse.SC_NOT_MODIFIED);
                            r.flushBuffer();
                            return false;
                        }
                    }
                }

                long ifmsl=request.getDateHeader(HttpHeaders.IF_MODIFIED_SINCE);
                if (ifmsl!=-1)
                {
                    if (resource.lastModified()/1000 <= ifmsl/1000)
                    {
                        r.reset(true);
                        r.setStatus(HttpServletResponse.SC_NOT_MODIFIED);
                        r.flushBuffer();
                        return false;
                    }
                }

                // Parse the if[un]modified dates and compare to resource
                long date=request.getDateHeader(HttpHeaders.IF_UNMODIFIED_SINCE);

                if (date!=-1)
                {
                    if (resource.lastModified()/1000 > date/1000)
                    {
                        response.sendError(HttpServletResponse.SC_PRECONDITION_FAILED);
                    }
                }
            }
        }
    }
}
public static boolean error(HttpServletRequest request, HttpServletResponse response, String message)
{
    return false;
}

}

catch(IllegalArgumentException iae)
{
    if(!response.isCommitted())
        response.sendError(400, iae.getMessage());
    throw iae;
}
return true;

/* ------------------------------------------------------------------- */
protected void sendDirectory(HttpServletRequest request, HttpServletResponse response, Resource resource, String pathInContext)
throws IOException
{
if (!_dirAllowed)
{
    response.sendError(HttpServletResponse.SC_FORBIDDEN);
    return;
}

byte[] data=null;
String base = URIUtil.addPaths(request.getRequestURI(),URIUtil.SLASH);

//If the DefaultServlet has a resource base set, use it
if (_resourceBase != null)
{
    // handle ResourceCollection
    if (_resourceBase instanceof ResourceCollection)
        resource=_resourceBase.addPath(pathInContext);
}

//Otherwise, try using the resource base of its enclosing context handler
else if (_contextHandler.getBaseResource() instanceof ResourceCollection)
    resource=_contextHandler.getBaseResource().addPath(pathInContext);

String dir = resource.getListHTML(base,pathInContext.length()>1);
if (dir==null)
{
    response.sendError(HttpServletResponse.SC_FORBIDDEN, "No directory");
}
return;
}

data=dir.getBytes("UTF-8");
response.setContentType("text/html; charset=UTF-8");
response.setContentLength(data.length);
response.getOutputStream().write(data);
*/

protected void sendData(HttpServletRequest request,
HttpServletResponse response,
boolean include,
Resource resource,
HttpContent content,
Enumeration reqRanges)
throws IOException
{
  boolean direct;
  long content_length;
  if (content==null)
  {
    direct=false;
    content_length=resource.length();
  }
  else
  {

    Connector connector = AbstractHttpConnection.getCurrentConnection().getConnector();
    direct=connector instanceof NIOConnector && ((NIOConnector)connector).getUseDirectBuffers() &&
    !(connector instanceof SslConnector);
    content_length=content.getContentLength();
  }

  // Get the output stream (or writer)
  OutputStream out =null;
  boolean written;
  try
  {
    out = response.getOutputStream();

    // has a filter already written to the response?
    written = out instanceof HttpOutput
      ? ((HttpOutput)out).isWritten()
      : AbstractHttpConnection.getCurrentConnection().getGenerator().isWritten();
  }
  catch(IllegalStateException e)
  {

out = new WriterOutputStream(response.getWriter());
written=true; // there may be data in writer buffer, so assume written
}

if ( reqRanges == null || !reqRanges.hasMoreElements() || content_length<0)
{
    // if there were no ranges, send entire entity
    if (include)
    {
        resource.writeTo(out,0,content_length);
    }
    else
    {
        // See if a direct methods can be used?
        if (content!=null && !written && out instanceof HttpOutput)
        {
            if (response instanceof Response)
            {
                writeOptionHeaders(((Response) response).getHttpFields());
                ((AbstractHttpConnection.Output)out).sendContent(content);
            }
            else
            {
                Buffer buffer = direct?content.getDirectBuffer():content.getIndirectBuffer();
                if (buffer!=null)
                {
                    writeHeaders(response, content, content_length);
                    ((AbstractHttpConnection.Output)out).sendContent(buffer);
                }
                else
                {
                    writeHeaders(response, content, content_length);
                    resource.writeTo(out,0,content_length);
                }
            }
        }
        else
        {
            // Write headers normally
            writeHeaders(response, content, written?-1:content_length);
            // Write content normally
            Buffer buffer = (content==null)?null:content.getIndirectBuffer();
            if (buffer!=null)
            {
                buffer.writeTo(out);
            }
            else
            {
                resource.writeTo(out,0,content_length);
            }
        }
    }
}
else
{
    // Parse the satisfiable ranges
    List ranges = InclusiveByteRange.satisfiableRanges(reqRanges, content_length);

    // if there are no satisfiable ranges, send 416 response
    if (ranges==null || ranges.size()==0)
    {
        writeHeaders(response, content, content_length);
        response.setStatus(HttpServletResponse.SC_REQUESTED_RANGE_NOT_SATISFIABLE);
        response.setHeader(HttpHeaders.CONTENT_RANGE,
                         InclusiveByteRange.to416HeaderRangeString(content_length));
        resource.writeTo(out,0,content_length);
        return;
    }

    // if there is only a single valid range (must be satisfiable
    // since we're here now), send that range with a 216 response
    if (ranges.size()== 1)
    {
        InclusiveByteRange singleSatisfiableRange =
            (InclusiveByteRange)ranges.get(0);
        long singleLength = singleSatisfiableRange.getSize(content_length);
        writeHeaders(response, content, singleLength);
        response.setStatus(HttpServletResponse.SC_PARTIAL_CONTENT);
        response.setHeader(HttpHeaders.CONTENT_RANGE,
                         singleSatisfiableRange.toHeaderRangeString(content_length));
        resource.writeTo(out,singleSatisfiableRange.getFirst(content_length),singleLength);
        return;
    }

    // multiple non-overlapping valid ranges cause a multipart
    // 216 response which does not require an overall
    // content-length header
    //
    writeHeaders(response, content,-1);
    String mimetype=content.getContentType().toString();
    MultiPartOutputStream multi = new MultiPartOutputStream(out);
    response.setStatus(HttpServletResponse.SC_PARTIAL_CONTENT);

    // If the request has a "Request-Range" header then we need to
    // send an old style multipart/x-byteranges Content-Type. This
    // keeps Netscape and acrobat happy. This is what Apache does.
    String ctp;
    if (request.getHeader(HttpHeaders.REQUEST_RANGE)!=null)
        ctp = "multipart/x-byteranges; boundary=";
else
    ctp = "multipart/byteranges; boundary=";
response.setContentType(ctp+multi.getBoundary());

InputStream in=resource.getInputStream();
long pos=0;

// calculate the content-length
int length=0;
String[] header = new String[ranges.size()];
for (int i=0;i<ranges.size();i++)
{
    InclusiveByteRange ibr = (InclusiveByteRange) ranges.get(i);
    header[i]=ibr.toHeaderRangeString(content_length);
    length+=
        ((i>0)?2:0)+
        2+multi.getBoundary().length()+2+
        HttpHeaders.CONTENT_TYPE.length()+2+mimetype.length()+2+
        HttpHeaders.CONTENT_RANGE.length()+2+header[i].length()+2+
        2+
        (ibr.getLast(content_length)-ibr.getFirst(content_length))+1;
}
length+=2+2+multi.getBoundary().length()+2+2;
response.setContentLength(length);

for (int i=0;i<ranges.size();i++)
{
    InclusiveByteRange ibr = (InclusiveByteRange) ranges.get(i);
    multi.startPart(mimetype,new String[]{HttpHeaders.CONTENT_RANGE+": "+header[i]});

    long start=ibr.getFirst(content_length);
    long size=ibr.getSize(content_length);
    if (in!=null)
    {
        // Handle non cached resource
        if (start<pos)
        {
            in.close();
            in=resource.getInputStream();
            pos=0;
        }
        if (pos<start)
        {
            in.skip(start-pos);
            pos=start;
        }
    }
    IO.copy(in,multi,size);
    pos+=size;
else  // Handle cached resource
    (resource).writeTo(multi,start,size);

if (in!=null)
    in.close();
multi.close();
return;

/* ------------------------------------------------------------- */
protected void writeHeaders(HttpServletResponse response,HttpContent content,long count)
    throws IOException{
    if (content.getContentType()!=null && response.getContentType()==null)
        response.setContentType(content.getContentType().toString());

    if (response instanceof Response)
    {
        Response r=(Response)response;
        HttpFields fields = r.getHttpFields();

        if (content.getLastModified()!=null)
            fields.put(HttpHeaders.LAST_MODIFIED_BUFFER, content.getLastModified());
        else if (content.getResource()!=null)
        {
            long lml=content.getResource().lastModified();
            if (lml!=-1)
                fields.putDateField(HttpHeaders.LAST_MODIFIED_BUFFER,lml);
        }

        if (count != -1)
            r.setLongContentLength(count);

        writeOptionHeaders(fields);
    }
    else
    {
        long lml=content.getResource().lastModified();
        if (lml>=0)
            response.setDateHeader(HttpHeaders.LAST_MODIFIED,lml);
        if (count != -1)
        {
            if (count<Integer.MAX_VALUE)
response.setContentType((int)count);
else
    response.setHeader(HttpHeaders.CONTENT_LENGTH, Long.toString(count));
}

writeOptionHeaders(response);
}
}

/* ----------------------------------------------- */
protected void writeOptionHeaders(HttpFields fields) throws IOException {
    if (_acceptRanges)
        fields.put(HttpHeaders.ACCEPT_RANGES_BUFFER, HttpHeaders.BYTES_BUFFER);

    if (_cacheControl!=null)
        fields.put(HttpHeaders.CACHE_CONTROL_BUFFER,_cacheControl);
}

/* ----------------------------------------------- */
protected void writeOptionHeaders(HttpServletResponse response) throws IOException {
    if (_acceptRanges)
        response.setHeader(HttpHeaders.ACCEPT_RANGES,"bytes");

    if (_cacheControl!=null)
        response.setHeader(HttpHeaders.CACHE_CONTROL,_cacheControl.toString());
}

/* ----------------------------------------------- */
/* @see javax.servlet.Servlet#destroy() */
*/
@Override
public void destroy() {
    if (_cache!=null)
        _cache.flushCache();
    super.destroy();
}

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1.266 jetty-util 8.1.7.v20120910

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    package org.eclipse.jetty.util;

    import java.util.AbstractList;
    import java.util.NoSuchElementException;
    import java.util.Queue;
/* ------------------------------------------------------------- */
/*
* Queue backed by circular array.
* <p/>
* This partial Queue implementation (also with {@link #remove()} for stack operation)
* is backed by a growable circular array.
* 
* @param <E>
*/
public class ArrayQueue<E> extends AbstractList<E> implements Queue<E>
{
    public static final int DEFAULT_CAPACITY = 64;
    public static final int DEFAULT_GROWTH = 32;

    protected final Object _lock;
    protected final int _growCapacity;
    protected Object[] _elements;
    protected int _nextE;
    protected int _nextSlot;
    protected int _size;

    /* ----------------------------------------------- */
    public ArrayQueue()
    {
        this(DEFAULT_CAPACITY, -1);
    }

    /* ----------------------------------------------- */
    public ArrayQueue(int capacity)
    {
        this(capacity, -1);
    }

    /* ----------------------------------------------- */
    public ArrayQueue(int initCapacity, int growBy)
    {
        this(initCapacity, growBy, null);
    }

    /* ----------------------------------------------- */
    public ArrayQueue(int initCapacity, int growBy, Object lock)
    {
        _lock = lock == null ? this : lock;
        _growCapacity = growBy;
        _elements = new Object[initCapacity];
    }
/* ------------------------------------------------------------ */
public int getCapacity()
{
    synchronized (_lock)
    {
        return _elements.length;
    }
}

/* ------------------------------------------------------------ */
@Override
public boolean add(E e)
{
    if (!offer(e))
        throw new IllegalStateException("Full");
    return true;
}

/* ------------------------------------------------------------ */
public boolean offer(E e)
{
    synchronized (_lock)
    {
        return enqueue(e);
    }
}

/* ------------------------------------------------------------ */
private boolean enqueue(E e)
{
    if (_size == _elements.length && !grow())
        return false;

    _size++;
    _elements[_nextSlot++] = e;
    if (_nextSlot == _elements.length)
        _nextSlot = 0;

    return true;
}

/* ------------------------------------------------------------ */

/**
* Add without synchronization or bounds checking
*
* @param e the element to add
* @see #add(Object)
*/
public void addUnsafe(E e) {
    if (!enqueue(e))
        throw new IllegalStateException("Full");
}

/* ------------------------------------------------------------- */
public E element() {
    synchronized (_lock) {
        if (isEmpty())
            throw new NoSuchElementException();
        return at(_nextE);
    }
}

@SuppressWarnings("unchecked")
private E at(int index) {
    return (E)_elements[index];
}

/* ------------------------------------------------------------- */
public E peek() {
    synchronized (_lock) {
        if (isEmpty())
            return null;
        return at(_nextE);
    }
}

/* ------------------------------------------------------------- */
public E poll() {
    synchronized (_lock) {
        if (_size == 0)
            return null;
        return dequeue();
    }
}

/* ------------------------------------------------------------- */
private E dequeue() {


E e = at(_nextE);
_elements[_nextE] = null;
_size--;
if (++_nextE == _elements.length)
    _nextE = 0;
return e;
}

/* AGEMENT */
public E remove()
{
    synchronized (_lock)
    {
        if (_size == 0)
            throw new NoSuchElementException();
        return dequeue();
    }
}

/* AGEMENT */
@Override
public void clear()
{
    synchronized (_lock)
    {
        _size = 0;
        _nextE = 0;
        _nextSlot = 0;
    }
}

/* AGMENT */
@Override
public boolean isEmpty()
{
    synchronized (_lock)
    {
        return _size == 0;
    }
}

/* AGMENT */
@Override
public int size()
{
    synchronized (_lock)
    {
        return _size;
    }
/* ---------------------------------------------------------------- ------------- */
@Override
public E get(int index)
{
    synchronized (_lock)
    {
        if (index < 0 || index >= _size)
            throw new IndexOutOfBoundsException("!(" + 0 + "+" + index + "+" + _size + ")");
        return getUnsafe(index);
    }
}

/* ---------------------------------------------------------------- ------------- */

/**
* Get without synchronization or bounds checking.
*
* @param index index of the element to return
* @return the element at the specified index
* @see #get(int)
*/
public E getUnsafe(int index)
{
    int i = (_nextE + index) % _elements.length;
    return at(i);
}

/* ---------------------------------------------------------------- ------------- */
@Override
public E remove(int index)
{
    synchronized (_lock)
    {
        if (index < 0 || index >= _size)
            throw new IndexOutOfBoundsException("!(" + 0 + "+" + index + "+" + _size + ")");

        int i = (_nextE + index) % _elements.length;
        E old = at(i);

        if (i < _nextSlot)
        {
            // 0
            // _nextE..._nextSlot
            System.arraycopy(_elements, i + 1, _elements, i, _nextSlot - i);
            _nextSlot--;
            _size--;
        }
    }
}
} else {
  // 0
  // ......_nextSlot _nextE........
  System.arraycopy(_elements, i + 1, _elements, i, _elements.length - i - 1);
  if (_nextSlot > 0) {
    _elements[_elements.length - 1] = _elements[0];
    System.arraycopy(_elements, 1, _elements, 0, _nextSlot - 1);
    _nextSlot--;
  } else
    _nextSlot = _elements.length - 1;

  _size--;
}

return old;
}

/* ------------------------------------------------------------- */
@Override
public E set(int index, E element) {
  synchronized (_lock) {
    if (index < 0 || index >= _size)
      throw new IndexOutOfBoundsException("!(" + 0 + "<" + index + "<=" + _size + ")");

    int i = _nextE + index;
    if (i >= _elements.length)
      i -= _elements.length;
    E old = at(i);
    _elements[i] = element;
    return old;
  }
}

/* ------------------------------------------------------------- */
@Override
public void add(int index, E element) {
  synchronized (_lock) {
    if (index < 0 || index >= _size)
      throw new IndexOutOfBoundsException("!(" + 0 + "<" + index + "<=" + _size + ")");

    int i = _nextE + index;
    if (i >= _elements.length)
      i -= _elements.length;
    E old = at(i);
    _elements[i] = element;
    return old;
  }
}
if (_size == _elements.length && !grow())
    throw new IllegalStateException("Full");

if (index == _size)
{
    add(element);
} else
{
    int i = _nextE + index;
    if (i >= _elements.length)
        i = _elements.length;

    _size++;
    _nextSlot++;
    if (_nextSlot == _elements.length)
        _nextSlot = 0;

    if (i < _nextSlot)
    {
        // 0 _elements.length
        // _nextE......i...._nextSlot
        // 0 _elements.length
        // ..i..._nextSlot   _nextE..........
        System.arraycopy(_elements, i, _elements, i + 1, _nextSlot - i);
        _elements[i] = element;
    } else
    {
        // 0 _elements.length
        // ......_nextSlot   _nextE.....i....
        if (_nextSlot > 0)
        {
            System.arraycopy(_elements, 0, _elements, 1, _nextSlot);
            _elements[0] = _elements[_elements.length - 1];
        }

        System.arraycopy(_elements, i, _elements, i + 1, _elements.length - i - 1);
        _elements[i] = element;
    }
}

/* ------------------------------------------------------------- */
protected boolean grow()
{

synchronized (_lock)
{
    if (_growCapacity <= 0)
        return false;

    Object[] elements = new Object[_elements.length + _growCapacity];

    int split = _elements.length - _nextE;
    if (split > 0)
        System.arraycopy(_elements, _nextE, elements, 0, split);
    if (_nextE != 0)
        System.arraycopy(_elements, 0, elements, split, _nextSlot);

    _elements = elements;
    _nextE = 0;
    _nextSlot = _size;
    return true;
}

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1.268 Jinja2 2.9.6

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1.269 jjwt 0.4

1.270 jline 0.9.94

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1.271 joda-time 2.9.9

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package joptsimple;

import java.util.ArrayList;
import java.util.Collection;
import java.util.List;
import static java.util.Collections);
import static joptsimple.internal.Strings.*;

import static joptsimple.internal.Strings.*;

/**
 * @param <V> represents the type of the arguments this option accepts
 * @author <a href="mailto:pholser@alumni.rice.edu">Paul Holser</a>
 */
abstract class AbstractOptionSpec<V> implements OptionSpec<V> {
    private final List<String> options = new ArrayList<String>();
    private final String description;

    protected AbstractOptionSpec( String option ) {
        this( singletonList( option ), EMPTY );
    }

    protected AbstractOptionSpec( Collection<String> options, String description ) {
        arrangeOptions( options );
        this.description = description;
    }
public final Collection<String> options() {
    return unmodifiableCollection( options );
}

public final List<V> values( OptionSet detectedOptions ) {
    return detectedOptions.valuesOf( this );
}

public final V value( OptionSet detectedOptions ) {
    return detectedOptions.valueOf( this );
}

abstract List<V> defaultValues();

String description() {
    return description;
}

protected abstract V convert( String argument );

abstract void handleOption( OptionParser parser, ArgumentList arguments, OptionSet detectedOptions, String detectedArgument );

abstract boolean acceptsArguments();

abstract boolean requiresArgument();

abstract void accept( OptionSpecVisitor visitor );

private void arrangeOptions( Collection<String> unarranged ) {
    if ( unarranged.size() == 1 ) {
        options.addAll( unarranged );
        return;
    }

    List<String> shortOptions = new ArrayList<String>();
    List<String> longOptions = new ArrayList<String>();

    for ( String each : unarranged ) {
        if ( each.length() == 1 )
            shortOptions.add( each );
        else
            longOptions.add( each );
    }

    sort( shortOptions );
sort( longOptions );

options.addAll( shortOptions );
options.addAll( longOptions );
}

@Override
public boolean equals( Object that ) {
    if ( !( that instanceof AbstractOptionSpec<?,?> ) )
        return false;

    AbstractOptionSpec<?,?> other = (AbstractOptionSpec<?,?>) that;
    return options.equals( other.options );
}

@Override
public int hashCode() {
    return options.hashCode();
}

@Override
public String toString() {
    return options.toString();
}

1.276 JSch 0.1.50

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1.291 kerberos 5 1.15.2
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cmd/krb5/kadmin/server/ipropd_svc.c
cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mach/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mach/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
lib/libgss/g_export_name.c
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lib/libgss/g_imp_sec_context.c
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lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c

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.. include::  notice.rst

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==========

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1.292 kodando-history 4.6.3

1.293 log4j 1.2.17

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-->
1.294 log4j-api 2.6.2

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<li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
<li><a href="/foundation/contributing.html">Donations</a></li>
<li><a href="/foundation/buy_stuff.html">Buy Stuff</a></li>
<li><a href="/foundation/thanks.html">Thanks</a></li>
</ul>

</div>

<nav>
<!-- / Navigation -->
</nav>

</body>
</html>
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1.295 log4j-core 2.6.2

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</ul>
</div>
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tomb - support for clean goroutine termination in Go.

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BSON library for Go

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mgo - MongoDB driver for Go

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---------------------------------------------
mgo - MongoDB driver for Go

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BSON library for Go

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------------------------------------------------
tomb - support for clean goroutine termination in Go.

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The basic library functions are written in C and are freestanding. Also included in the distribution is a set of C++ wrapper functions.

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Written by: Philip Hazel
Email local part: ph10
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zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.8, April 28th, 2013

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jloup@gzip.org          madler@alumni.caltech.edu

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tomb - support for clean goroutine termination in Go.

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mgo - MongoDB driver for Go

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mgo:

mgo - MongoDB driver for Go

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Written by: Philip Hazel
Email local part: ph10
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zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.8, April 28th, 2013

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Refactored SqlBuilder class (SQL, AbstractSQL)

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1.327 nginx 1.13.3-1~stretch

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1.329 npm-run-all 4.0.2

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import java.util.Map;
import org.osgi.framework.Constants;
import org.osgi.framework.ServiceRegistration;

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 * <p>
 * Application instances can obtain their {code ApplicationContext} using the
 * {code Framework#getApplicationContext(Object)} method.
 * <p>
 */
public interface ApplicationContext {

  // Adds the specified ApplicationServiceListener object to this context application instance's list of listeners. The specified referenceName is a reference name specified in the descriptor of the corresponding application. The registered listener will only receive the ApplicationServiceEvent's related to the referred service.
  // If the listener was already added, calling this method will overwrite the previous registration.
  
  @param listener The ApplicationServiceListener to be added. It must not be null.
  
  @param referenceName the reference name of a service from the descriptor of the corresponding application. It must not be null.

  @throws java.lang.IllegalArgumentException If this context application instance has stopped.
  @throws java.lang.NullPointerException If listener or referenceName is null.

  public void addServiceListener(ApplicationServiceListener listener, String referenceName) throws java.lang.IllegalArgumentException;

  // Adds the specified ApplicationServiceListener object to this context application instance's list of listeners. The specified referenceNames parameter is an array of reference name specified in the descriptor of the corresponding application. The registered listener will only receive the ApplicationServiceEvent's related to the referred services.

  @param listener The ApplicationServiceListener to be added. It must not be null.

  @param referenceNames an array of reference name specified in the descriptor of the corresponding application. It must not be null.

  @throws java.lang.NullPointerException If listener or referenceNames is null.

  @throws java.lang.IllegalArgumentException If there is no service in the application descriptor with the specified referenceName.

  public void addServiceListener(ApplicationServiceListener listener, String[] referenceNames) throws java.lang.NullPointerException;

  // Adds the specified ApplicationServiceListener object to this context application instance's list of listeners. The specified referenceNames parameter is an array of reference name specified in the descriptor of the corresponding application. The registered listener will only receive the ApplicationServiceEvent's related to the referred services.

  // Adds the specified ApplicationServiceListener object to this context application instance's list of listeners. The specified referenceNames parameter is an array of reference name specified in the descriptor of the corresponding application. The registered listener will only receive the ApplicationServiceEvent's related to the referred services.

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  // Adds the specified ApplicationServiceListener object to this context application instance's list of listeners. The specified referenceNames parameter is an array of reference name specified in the descriptor of the corresponding application. The registered listener will only receive the ApplicationServiceEvent's related to the referred services.
If the `ApplicationServiceListener` was already added, calling this method will overwrite the previous registration.

@throws `java.lang.IllegalStateException` If this context application instance has stopped.
@throws `java.lang.NullPointerException` If `ApplicationServiceListener` or `String[]` is `null`.
@throws `java.lang.IllegalArgumentException` If `String[]` array is empty or it contains unknown references.

```java
public void addServiceListener(ApplicationServiceListener listener, String[] referenceNames) throws java.lang.IllegalArgumentException;
```

```java
public void removeServiceListener(ApplicationServiceListener listener);
```

This method returns the identifier of the corresponding application instance. This identifier is guaranteed to be unique within the scope of the device.

@see `org.osgi.service.application.ApplicationHandle#getInstanceId()`

@returns the unique identifier of the corresponding application instance
public String getInstanceId();

/**
 * This method return the identifier of the corresponding application type.
 * This identifier is the same for the different instances of the same
 * application but it is different for different application type.
 * <p>
 * Note: this method can safely be called on an invalid
 * [code ApplicationContext] as well.
 *
 * @see org.osgi.service.application.ApplicationDescriptor#getApplicationId()
 *
 * @return the identifier of the application type.
 */
public String getApplicationId();

/**
 * This method returns the service object for the specified
 * [code referenceName]. If the cardinality of the reference is 0..n or
 * 1..n and multiple services are bound to the reference, the service with
 * the highest ranking (as specified in its
 * [link org.osgi.framework.Constants#SERVICE_RANKING property]) is
 * returned. If there is a tie in ranking, the service with the lowest
 * service ID (as specified in its
 * [link org.osgi.framework.Constants#SERVICE_ID property]); that is, the
 * service that was registered first is returned.
 *
 * @param referenceName The name of a reference as specified in a reference
 * element in this context applications's description. It must not be
 * [code null]
 * @return A service object for the referenced service or [code null] if
 * the reference cardinality is 0..1 or 0..n and no bound service is
 * available.
 * @throws java.lang.NullPointerException If [code referenceName] is
 * [code null].
 * @throws java.lang.IllegalArgumentException If there is no service in the
 * application descriptor with the specified [code referenceName].
 * @throws java.lang.IllegalStateException If this context application
 * instance has stopped.
 */
public Object locateService(String referenceName);

/**
 * This method returns the service objects for the specified
 * [code referenceName].
 *
 * @param referenceName The name of a reference as specified in a reference
public Object[] locateServices(String referenceName);

/**
 * Returns the startup parameters specified when calling the
 * org.osgi.service.application.ApplicationDescriptor#launch(Map)
 * method.
 * <p>
 * Startup arguments can be specified as name, value pairs. The name must be
 * of type java.lang.String, which must not be null or empty
 * ([@link java.lang.String] ([@code ""]), the value can be any object
 * including null).
 */

public Map getStartupParameters();

/**
 * Application can query the service properties of a service object it is
 * bound to. Application gets bound to a service object when it first
 * obtains a reference to the service by calling locateService or
 * locateServices methods.
 */

public void getServiceProperties(Object serviceObject);
public Map getServiceProperties(Object serviceObject);

/**
 * Registers the specified service object with the specified properties
 * under the specified class names into the Framework. A
 * {@link org.osgi.framework.ServiceRegistration} object is returned. The
 * use of the application registering the service and should not be shared
 * with other applications. The registering application is defined to be the
 * context application. Bundles can locate the service by using either the
 * {@link org.osgi.framework.BundleContext#getServiceReferences(String, String)}
 * or {@link org.osgi.framework.BundleContext#getServiceReference(String)}
 * method. Other applications can locate this service by using
 * {@link #locateService(String)} or {@link #locateServices(String)} method,
 * if they declared their dependence on the registered service.
 *
 * <p>
 * An application can register a service object that implements the
 * {@link org.osgi.framework.ServiceFactory} interface to have more
 * flexibility in providing service objects to other applications or
 * bundles.
 *
 * <p>
 * The following steps are required to register a service:
 *
 * <ol>
 * <li>If {@code service} is not a {code ServiceFactory}, an
 *     {code IllegalArgumentException} is thrown if {code service} is not an
 *     {code instanceof} all the classes named.</li>
 * <li>The Framework adds these service properties to the specified
 *     {code Dictionary} (which may be {code null}): a property named
 *     {code Constants#SERVICE_ID} identifying the
 *     registration number of the service and a property named
 *     {code Constants#OBJECTCLASS} containing all the
 *     specified classes. If any of these properties have already been specified
 *     by the registering bundle, their values will be overwritten by the
 *     Framework.</li>
 * <li>The service is added to the Framework service registry and may now be
 *     used by others.</li>
 * <li>A service event of type
 *     {@link org.osgi.framework.ServiceEvent#REGISTERED} is fired. This event
 *     triggers the corresponding {@link ApplicationServiceEvent} to be
 *     delivered to the applications that registered the appropriate listener.</li>
 * <li>A {code ServiceRegistration} object for this registration is
 *     returned.</li>
 * </ol>
 *
 * @param clazzes The class names under which the service can be located.
 * The class names in this array will be stored in the service's
* properties under the key
*   { @link org.osgi.framework.Constants#OBJECTCLASS }. This parameter
*   must not be { @code null }.
* @param service The service object or a { @code ServiceFactory } object.
* @param properties The properties for this service. The keys in the
*   properties object must all be { @code String } objects. See
*   { @link org.osgi.framework.Constants } for a list of standard
*   service property keys. Changes should not be made to this object
*   after calling this method. To update the service's properties the
*   { @link org.osgi.framework.ServiceRegistration#setProperties(Dictionary) }
*   method must be called. The set of properties may be { @code null }
*   if the service has no properties.
* @return A { @link org.osgi.framework.ServiceRegistration } object for use
*         by the application registering the service to update the
*         service's properties or to unregister the service.
* @throws java.lang.IllegalArgumentException If one of the following is
*      true:
*      <ul>
*      <li>{@code service} is {@code null}.</li>
*      <li>{@code service} is not a { @code ServiceFactory } object and is not an instance of all
*      the named classes in { @code clazzes }.</li>
*      <li>{@code properties} contains case variants of the same key name.</li>
*      </ul>
* @throws NullPointerException if { @code clazzes } is { @code null }
* @throws java.lang.SecurityException If the caller does not have the
*      { @code ServicePermission } to register the service for all the
*      named classes and the Java Runtime Environment supports
*      permissions.
* @throws java.lang.IllegalStateException If this ApplicationContext is no
*      longer valid.
* @see org.osgi.framework.BundleContext#registerService(java.lang.String[],
*         java.lang.Object, java.util.Dictionary)
* @see org.osgi.framework.ServiceRegistration
* @see org.osgi.framework.ServiceFactory
*/
public ServiceRegistration registerService(String[] clazzes, Object service, Dictionary properties);

/**
 * Registers the specified service object with the specified properties
 * under the specified class name with the Framework.
 * @param service The service object
 * @param properties The properties for this service
 * @param clazzes The named classes
 */
public ServiceRegistration registerService(String service, Dictionary properties, String[] clazzes, String property);
and is provided as a convenience when `service` will only be registered under a single class name. Note that even in this case the value of the service's `OBJECTCLASS` property will be an array of strings, rather than just a single string.

* @param clazz The class name under which the service can be located. It must not be `null`.
* @param service The service object or a `ServiceFactory` object.
* @param properties The properties for this service.

* @return A `ServiceRegistration` object for use by the application registering the service to update the service's properties or to unregister the service.

* @throws IllegalArgumentException If one of the following is true:
  * `service` is `null`.
  * `service` is not a `ServiceFactory` object and is not an instance of the named class in `clazz`.
  * `properties` contains case variants of the same key name.

* @throws NullPointerException if `clazz` is `null`

* @throws SecurityException If the caller does not have the `ServicePermission` to register the service the named class and the Java Runtime Environment supports permissions.

* @throws IllegalStateException If this ApplicationContext is no longer valid.
* @see #registerService(java.lang.String[], java.lang.Object, java.util.Dictionary)

public ServiceRegistration registerService(String clazz, Object service, Dictionary properties);
package org.osgi.application;

import org.osgi.framework.ServiceEvent;
import org.osgi.framework.ServiceReference;

/**
 * An event from the Framework describing a service lifecycle change.
 * <p>
 * {@code ApplicationServiceEvent} objects are delivered to a
 * { @code ApplicationServiceListener} objects when a change occurs in this
 * service's lifecycle. The delivery of an { @code ApplicationServiceEvent} is
 * always triggered by a { @link org.osgi.framework.ServiceEvent}.
 * { @code ApplicationServiceEvent} extends the content of { @code ServiceEvent}
 * with the service object the event is referring to as applications has no
 * means to find the corresponding service object for a
 * { @link org.osgi.framework.ServiceReference}. A type code is used to identify
 * the event type for future extendability. The available type codes are defined
 * in { @link org.osgi.framework.ServiceEvent}.
 * 
 * OSGB Alliance reserves the right to extend the set of types.
 * 
 * @see org.osgi.framework.ServiceEvent
 * @see ApplicationServiceListener
 * 
 * @author $Id: feb6a13123707549d3efdb5f06ba69ee82368cb9 $
 */
public class ApplicationServiceEvent extends ServiceEvent {

private static final long serialVersionUID = -4762149286971897323L;
final Object serviceObject;

/**
 * Creates a new application service event object.
 * 
 * @param type The event type. Available type codes are defines in
 * { @link org.osgi.framework.ServiceEvent}
 * @param reference A { @code ServiceReference} object to the service that
 * had a lifecycle change. This reference will be used as the
 * { @code source} in the { @link java.util.EventObject} baseclass,
 * therefore, it must not be null.
 * @param serviceObject The service object bound to this application
 * instance. It can be { @code null} if this application is not bound
 * to this service yet.
public ApplicationServiceEvent(int type, ServiceReference reference, Object serviceObject) {
    super(type, reference);
    this.serviceObject = serviceObject;
}

/**
 * This method returns the service object of this service bound to the
 * listener application instance. A service object becomes bound to the
 * application when it first obtains a service object reference to that
 * service by calling the { @code ApplicationContext.locateService} or
 * { @code locateServices} methods. If the application is not bound to the
 * service yet, this method returns { @code null}.
 * @return the service object bound to the listener application or
 *         { @code null} if it isn't bound to this service yet.
 */
public Object getServiceObject() {
    return this.serviceObject;
}

package org.osgi.application;
import java.util.EventListener;
import org.osgi.framework.*;

/**
 * An { @code ApplicationServiceEvent} listener. When a { @code ServiceEvent} is
 * fired, it is converted to an { @code ApplictionServiceEvent} and it is

* @throws IllegalArgumentException if the specified { @code reference} is
*         null.
*/
public ApplicationServiceEvent(int type, ServiceReference reference, Object serviceObject) {
    super(type, reference);
    this.serviceObject = serviceObject;
}

/**
 * This method returns the service object of this service bound to the
 * listener application instance. A service object becomes bound to the
 * application when it first obtains a service object reference to that
 * service by calling the { @code ApplicationContext.locateService} or
 * { @code locateServices} methods. If the application is not bound to the
 * service yet, this method returns { @code null}.
 * @return the service object bound to the listener application or
 *         { @code null} if it isn't bound to this service yet.
 */
public Object getServiceObject() {
    return this.serviceObject;
}

package org.osgi.application;
import java.util.EventListener;
import org.osgi.framework.*;

/**
 * An { @code ApplicationServiceEvent} listener. When a { @code ServiceEvent} is
 * fired, it is converted to an { @code ApplictionServiceEvent} and it is
* synchronously delivered to an [@code ApplicationServiceListener].

* <p>
* [@code ApplicationServiceListener] is a listener interface that may be
* implemented by an application developer.

* <p>
* An [@code ApplicationServiceListener] object is registered with the Framework
* using the [@code ApplicationContext.addServiceListener] method.
* [@code ApplicationServiceListener] objects are called with an
* [@code ApplicationServiceEventListener] object when a service is registered,
* modified, or is in the process of unregistering.

* <p>
* [@code ApplicationServiceEventListener] object delivery to
* [@code ApplicationServiceListener] objects is filtered by the filter
* specified when the listener was registered. If the Java Runtime Environment
* supports permissions, then additional filtering is done.
* [@code ApplicationServiceEventListener] objects are only delivered to the listener if
* the application which defines the listener object's class has the appropriate
* [@code ServicePermission] to get the service using at least one of the named
* classes the service was registered under, and the application specified its
* dependence on the corresponding service in the application metadata.

* <p>
* [@code ApplicationServiceEventListener] object delivery to
* [@code ApplicationServiceListener] objects is further filtered according to
* package sources as defined in
* [@link ServiceReference#isAssignableTo(Bundle, String)].

* @author $Id: 406895df9d8ba1a250de7fb9d49da1d0a18abc5b $
* @see ApplicationServiceEvent
* @see ServicePermission
*/

public interface ApplicationServiceListener extends EventListener {
/**
* Receives notification that a service has had a lifecycle change.
* @param event The [@code ApplicationServiceEventListener] object.
*/
public void serviceChanged(ApplicationServiceEvent event);
}

/*
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* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
package org.osgi.service.application;

import java.security.Permission;
import java.util.Hashtable;
import java.util.StringTokenizer;
import java.util.Vector;
import org.osgi.framework.Filter;
import org.osgi.framework.FrameworkUtil;
import org.osgi.framework.InvalidSyntaxException;

/**
 * This class implements permissions for manipulating applications and their
 * instances.
 * <P>
 * ApplicationAdminPermission can be targeted to applications that matches the
 * specified filter.
 * <P>
 * ApplicationAdminPermission may be granted for different actions:
 * <code>{@code lifecycle}</code>, <code>{@code schedule}</code> and <code>{@code lock}</code>. The permission
 * <code>{@code schedule}</code> implies the permission <code>{@code lifecycle}</code>.
 * <P>
 * @author $Id: c8c799ae29ff5bb6095e22d201b47a3445eb42cb $
 */
public class ApplicationAdminPermission extends Permission {
private static final long serialVersionUID = 1L;

/**
 * Allows the lifecycle management of the target applications.
 */
public static final String LIFECYCLE_ACTION = "lifecycle";

/**
 * Allows scheduling of the target applications. The permission to schedule
 * an application implies that the scheduler can also manage the lifecycle
 * of that application i.e. <code>{@code schedule}</code> implies <code>{@code lifecycle}</code>.
 */
public static final String SCHEDULE_ACTION = "schedule";
* Allows setting/unsetting the locking state of the target applications.
*/

public static final String LOCK_ACTION = "lock";

private ApplicationDescriptor applicationDescriptor;

/**
 * Constructs an ApplicationAdminPermission. The {@code filter} specifies
 * the target application. The {@code filter} is an LDAP-style filter, the
 * recognized properties are {@code signer} and {@code pid}. The pattern
 * specified in the {@code signer} is matched with the Distinguished Name
 * chain used to sign the application. Wildcards in a DN are not matched
 * according to the filter string rules, but according to the rules defined
 * for a DN chain. The attribute {@code pid} is matched with the PID of the
 * application according to the filter string rules.
 * <p>
 * If the {@code filter} is {@code null} then it matches {@code "+*"}. If
 * {@code actions} is {@code "+*"} then it identifies all the possible
 * actions.
 * <p>
 * @param filter filter to identify application. The value {@code null} is
 * equivalent to {@code "+*"} and it indicates "all application".
 * @param actions comma-separated list of the desired actions granted on the
 * applications or "*" means all the actions. It must not be
 * {@code null}. The order of the actions in the list is not
 * significant.
 * @throws InvalidSyntaxException is thrown if the specified {@code filter}
 * is not syntactically correct.
 * @exception NullPointerException is thrown if the actions parameter is
 * {@code null}
 */

public ApplicationAdminPermission(String filter, String actions) throws InvalidSyntaxException {
    super(filter == null ? "*" : filter);
    
    if (filter == null)
    filter = "+*";

    if (actions == null)
    throw new NullPointerException("Action string cannot be null!");

    this.applicationDescriptor = null;
    this.filter = (filter == null ? "*" : filter);
    this.actions = actions;
}
if (!filter.equals("*") && !filter.equals("<<SELF>>"))
FrameworkUtil.createFilter(this.filter); // check if the filter is
// valid
init();
}

/**
 * This constructor should be used when creating
 * @code ApplicationAdminPermission} instance for {@code checkPermission}
 * call.
 *
 * @param application the target of the operation, it must not be
 *        {@code null}
 * @param actions the required operation, it must not be {@code null}
 * @throws NullPointerException if any of the arguments is null.
 */
public ApplicationAdminPermission(ApplicationDescriptor application, String actions) {
    super(application.getApplicationId());

    if (application == null || actions == null)
        throw new NullPointerException("ApplicationDescriptor and action string cannot be null!");

     this.filter = application.getApplicationId();
     this.applicationDescriptor = application;
     this.actions = actions;

     init();
}

/**
 * This method can be used in the {@link java.security.ProtectionDomain}
 * implementation in the {@code implies} method to insert the application ID
 * of the current application into the permission being checked. This
 * enables the evaluation of the {@code <<SELF>>} pseudo targets.
 *
 * @param applicationId the ID of the current application.
 * @return the permission updated with the ID of the current application
 */
public ApplicationAdminPermission setCurrentApplicationId(String applicationId) {
    ApplicationAdminPermission newPerm = null;

    if (this.applicationDescriptor == null) {
        try {
            newPerm = new ApplicationAdminPermission(this.filter, this.actions);
        } catch (InvalidSyntaxException e) {
            throw new RuntimeException(e); /* this can never happen */
        }
    } else
newPerm = new ApplicationAdminPermission(this.applicationDescriptor, this.actions);

newPerm.applicationID = applicationId;

return newPerm;
}

/**
 * Checks if the specified {@code permission} is implied by this permission.
 * The method returns true under the following conditions:
 * <ul>
 * <li>This permission was created by specifying a filter (see
 *     {link ApplicationAdminPermission(String, String)})</li>
 * <li>The implied {code otherPermission} was created for a particular
 *     {link ApplicationDescriptor} (see
 *     {link ApplicationAdminPermission(ApplicationDescriptor, String)})</li>
 * <li>The {code filter} of this permission mathes the
 *     {code ApplicationDescriptor} specified in the {code otherPermission}.
 *     If the filter in this permission is the {code <<SELF>>} pseudo target,
 *     then the currentApplicationId set in the {code otherPermission} is
 *     compared to the application Id of the target
 *     {code ApplicationDescriptor}.</li>
 * <li>The list of permitted actions in this permission contains all actions
 *     required in the {code otherPermission}</li>
 * <ul>
 * * Otherwise the method returns false.
 * *
 * * @param otherPermission the implied permission
 * * @return true if this permission implies the {code otherPermission},
 * *     false otherwise.
 * */
public boolean implies(Permission otherPermission) {
    if (otherPermission == null)
        return false;
    if (!(otherPermission instanceof ApplicationAdminPermission))
        return false;
    ApplicationAdminPermission other = (ApplicationAdminPermission) otherPermission;
    if (!filter.equals("*")) {
        if (other.applicationDescriptor == null)
            return false; /* it cannot be, this might be a bug */
        if (filter.equals("<<SELF>>")) {
            if (other.applicationID == null)
                return false; /* it cannot be, this might be a bug */
        }
    }
    return true;
}

if (!other.applicationID.equals(other.applicationDescriptor.getApplicationId()))
    return false;
} else {
    Hashtable props = new Hashtable();
    props.put("pid", other.applicationDescriptor.getApplicationId());
    props.put("signer", new SignerWrapper(other.applicationDescriptor));

    Filter flt = getFilter();
    if (flt == null)
        return false;

    if (!flt.match(props))
        return false;
}

if (!actionsVector.containsAll(other.actionsVector))
    return false;

return true;

public boolean equals(Object with) {
    if (with == null || !(with instanceof ApplicationAdminPermission))
        return false;

    ApplicationAdminPermission other = (ApplicationAdminPermission) with;

    // Compare actions:
    if (other.actionsVector.size() != actionsVector.size())
        return false;

    for (int i = 0; i != actionsVector.size(); i++)
        if (!other.actionsVector.contains(actionsVector.get(i)))
            return false;

    return equal(this.filter, other.filter) && equal(this.applicationDescriptor, other.applicationDescriptor) &&
        equal(this.applicationID, other.applicationID);
}

/**
 * Compares parameters for equality. If both object are null, they are
 * considered equal.
 *
 * @param a object to compare
 * @param b other object to compare
 * @return true if both objects are equal or both are null
 */
private static boolean equal(Object a, Object b) {
// This equation is true if both references are null or both point
// to the same object. In both cases they are considered as equal.
if (a == b) {
return true;
}
return a.equals(b);
}
public int hashCode() {
int hc = 0;
for (int i = 0; i != actionsVector.size(); i++)
hc ^= ((String) actionsVector.get(i)).hashCode();
hc ^= (null == this.filter) ? 0 : this.filter.hashCode();
hc ^= (null == this.applicationDescriptor) ? 0 : this.applicationDescriptor.hashCode();
hc ^= (null == this.applicationID) ? 0 : this.applicationID.hashCode();
return hc;
}
/**
* Returns the actions of this permission.
*
* @return the actions specified when this permission was created
*/
public String getActions() {
return actions;
}
private StringapplicationID;
private static final VectorACTIONS= new Vector();
private VectoractionsVector;
private final Stringfilter;
private final Stringactions;
private FilterappliedFilter= null;
static {
ACTIONS.add(LIFECYCLE_ACTION);
ACTIONS.add(SCHEDULE_ACTION);
ACTIONS.add(LOCK_ACTION);
}
private static Vector actionsVector(String actions) {
Vector v = new Vector();
StringTokenizer t = new StringTokenizer(actions.toUpperCase(), ",");
while (t.hasMoreTokens()) {
String action = t.nextToken().trim();

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v.add(action.toLowerCase());
}

if (v.contains(SCHEDULE_ACTION) && !v.contains(LIFECYCLE_ACTION))
v.add(LIFECYCLE_ACTION);

return v;
}

private static class SignerWrapper extends Object {
    private String pattern;
    private ApplicationDescriptor appDesc;

    /**
     * @param pattern
     */
    public SignerWrapper(String pattern) {
        this.pattern = pattern;
    }

    SignerWrapper(ApplicationDescriptor appDesc) {
        this.appDesc = appDesc;
    }

    public boolean equals(Object o) {
        if (!(o instanceof SignerWrapper))
            return false;
        SignerWrapper other = (SignerWrapper) o;
        ApplicationDescriptor matchAppDesc = appDesc != null ? appDesc : other.appDesc;
        String matchPattern = appDesc != null ? other.pattern : pattern;
        return matchAppDesc.matchDNChain(matchPattern);
    }

    private void init() {
        actionsVector = actionsVector(actions);

        if (actions.equals("**"))
            actionsVector = actionsVector(LIFECYCLE_ACTION + "," + SCHEDULE_ACTION + "," + LOCK_ACTION);
        else
            if (!ACTIONS.containsAll(actionsVector))
                throw new IllegalArgumentException("Illegal action!");

        applicationID = null;
    }

    private Filter getFilter() {
        if (appliedFilter == null) {
try {
    appliedFilter = FrameworkUtil.createFilter(filter);
} catch (InvalidSyntaxException e) {
    // we will return null
}
return appliedFilter;

package org.osgi.service.application;

import java.lang.reflect.InvocationTargetException;
import java.lang.reflect.Method;
import java.security.AccessController;
import java.security.PrivilegedAction;
import java.security.PrivilegedExceptionAction;
import java.util.Map;
import org.osgi.framework.Constants;
import org.osgi.framework.InvalidSyntaxException;

/**
 * An OSGi service that represents an installed application and stores
 * information about it. The application descriptor can be used for instance
 * creation.
 *
 * @author $Id: 991343b4701de961cbb87126ededcc00685811f0 $
 */

public abstract class ApplicationDescriptor {

/**
 * NOTE: An implementor may also choose to replace this class in their
 * distribution with a class that directly interfaces with the
* org.osgi.service.application implementation. This replacement class MUST
* NOT alter the public/protected signature of this class.
*/

/**
 * The property key for the localized name of the application.
 */
public static final String APPLICATION_NAME = "application.name";

/**
 * The property key for the localized icon of the application.
 */
public static final String APPLICATION_ICON = "application.icon";

/**
 * The property key for the unique identifier (PID) of the application.
 */
public static final String APPLICATION_PID = Constants.SERVICE_PID;

/**
 * The property key for the version of the application.
 */
public static final String APPLICATION_VERSION = "application.version";

/**
 * The property key for the name of the application vendor.
 */
public static final String APPLICATION_VENDOR = Constants.SERVICE_VENDOR;

/**
 * The property key for the visibility property of the application.
 */
public static final String APPLICATION_VISIBLE = "application.visible";

/**
 * The property key for the launchable property of the application.
 */
public static final String APPLICATION_LAUNCHABLE = "application.launchable";

/**
 * The property key for the locked property of the application.
 */
public static final String APPLICATION_LOCKED = "application.locked";

/**
 * The property key for the localized description of the application.
 */
public static final String APPLICATION_DESCRIPTION = "application.description";
/**
 * The property key for the localized documentation of the application.
 */
public static final String APPLICATION_DOCUMENTATION = "application.documentation";

/**
 * The property key for the localized copyright notice of the application.
 */
public static final String APPLICATION_COPYRIGHT = "application.copyright";

/**
 * The property key for the localized license of the application.
 */
public static final String APPLICATION_LICENSE = "application.license";

/**
 * The property key for the application container of the application.
 */
public static final String APPLICATION_CONTAINER = "application.container";

/**
 * The property key for the location of the application.
 */
public static final String APPLICATION_LOCATION = "application.location";

private final String pid;

/**
 * Constructs the [@code ApplicationDescriptor].
 *
 * @param applicationId The identifier of the application. Its value is also
 * available as the [@code service.pid] service property of this
 * [@code ApplicationDescriptor] service. This parameter must not be
 * null.
 * @throws NullPointerException if the specified [@code applicationId] is
 * null.
 */
protected ApplicationDescriptor(String applicationId) {
    if (null == applicationId) {
        throw new NullPointerException("Application ID must not be null!");
    }

    this.pid = applicationId;
    try {
        delegate = new Delegate();
        delegate.setApplicationDescriptor(this, applicationId);
    } catch (Exception e) {
// Too bad ...

e.printStackTrace();
System.err.println("No implementation available for ApplicationDescriptor, property is: " + Delegate.cName);
}
}

/**
 * Returns the identifier of the represented application.
 * @return the identifier of the represented application
 */
public final String getApplicationId() {
    return pid;
}

/**
 * This method verifies whether the specified {code pattern} matches the
 * Distinguished Names of any of the certificate chains used to authenticate
 * this application.
 * <p>
 * The {code pattern} must adhere to the syntax defined in
 * [link org.osgi.service.application.ApplicationAdminPermission] for
 * signer attributes.
 * <p>
 * This method is used by
 * [link ApplicationAdminPermission#implies(java.security.Permission)]
 * method to match target {code ApplicationDescriptor} and filter.
 * <p>
 * @param pattern a pattern for a chain of Distinguished Names. It must not
 * be null.
 * @return {code true} if the specified pattern matches at least one of the
 * certificate chains used to authenticate this application
 * @throws NullPointerException if the specified {code pattern} is null.
 * @throws IllegalStateException if the application descriptor was
 * unregistered
 */
public abstract boolean matchDNChain(String pattern);

/**
 * Returns the properties of the application descriptor as key-value pairs.
 * The return value contains the locale aware and unaware properties as
 * well. The returned {code Map} will include the service properties of
 * this {code ApplicationDescriptor} as well.
 * <p>
 * This method will call the {code getPropertiesSpecific} method to enable
 * the container implementation to insert application model and/or container
 * implementation specific properties.
 * <p>
public final Map getProperties(String locale) {
    Map props = getPropertiesSpecific(locale);

    /* currently the ApplicationDescriptor manages the load/save of locking */
    boolean isLocked = delegate.isLocked(); // the real locking state
    Boolean containerLocked = (Boolean) props.remove(APPLICATION_LOCKED);
    if (containerLocked != null && containerLocked.booleanValue() != isLocked) {
        try {
            if (isLocked) /* if the container's information is not correct */
                lockSpecific(); /* about the locking state (after loading
                 * the lock states)
                 */
            else
                unlockSpecific();
        } catch (Exception e) {
            if (isLocked) /* if the container's information is not correct */
                lockSpecific(); /* about the locking state (after loading
                 * the lock states)
                 */
        }
    }

    /* replace the container's lock with the application model's lock,
     * that's the correct */
    props.put(APPLICATION_LOCKED, new Boolean(isLocked));
    return props;
}

/**
 * Container implementations can provide application model specific and/or
 * container implementation specific properties via this method.
 */
Localizable properties must be returned localized if the provided
[@code locale] argument is not the empty String. The value [@code null]
indicates to use the default locale, for other values the specified
locale should be used.

The returned [@link java.util.Map] must contain the standard OSGi service
properties as well (e.g. service.id, service.vendor etc.) and specialized
application descriptors may offer further service properties. The
returned [@code Map] contains a snapshot of the properties. It will not
reflect further changes in the property values nor will the update of the
Map change the corresponding service property.

@throws IllegalStateException if the application descriptor is
unregistered

protected abstract Map getPropertiesSpecific(String locale);

/**
 * Launches a new instance of an application. The [@code args] parameter
 * specifies the startup parameters for the instance to be launched, it may
 * be null.
 * <p>
 * The following steps are made:
 * <ul>
 * <li>Check for the appropriate permission.</li>
 * <li>Check the locking state of the application. If locked then throw an
 *     [@link ApplicationException] with the reason code
 *     [@code APPLICATION_LOCKED].</li>
 * <li>Calls the [@code launchSpecific()] method to create and start an
 *     application instance.</li>
 * <li>Returns the [@code ApplicationHandle] returned by the
 *     launchSpecific().</li>
 * </ul>
 * The caller has to have ApplicationAdminPermission(applicationPID,
 * "launch") in order to be able to perform this operation.
 * <p>
 * The [@code Map] argument of the launch method contains startup arguments
 * for the application. The keys used in the Map must be non-null, non-empty
 * [@code String] objects. They can be standard or application specific.
OSGi defines the `@code org.osgi.triggeringevent` key to be used to pass the triggering event to a scheduled application, however in the future it is possible that other well-known keys will be defined. To avoid unwanted clashes of keys, the following rules should be applied:

- The keys starting with the dash (-) character are application specific, no well-known meaning should be associated with them.
- Well-known keys should follow the reverse domain name based naming. In particular, the keys standardized in OSGi should start with `@code org.osgi.`.

The method is synchronous, it return only when the application instance was successfully started or the attempt to start it failed.

This method never returns `@code null`. If launching an application fails, the appropriate exception is thrown.

- `@param arguments Arguments for the newly launched application, may be null`

- `@return the registered ApplicationHandle, which represents the newly launched application instance. Never returns `@code null`.

- `@throws SecurityException if the caller doesn't have "lifecycle" ApplicationAdminPermission for the application`
- `@throws ApplicationException if the application descriptor is unregistered`
- `@throws IllegalArgumentException if the specified `@code Map` contains invalid keys (null objects, empty `@code String` or a key that is not `@code String`)

```java
public final ApplicationHandle launch(Map arguments) throws ApplicationException {
    try {
        delegate.launch(arguments);
        } catch (SecurityException se) {
            isLaunchableSpecific(); /* check whether the bundle was uninstalled */
            /* if yes, throws IllegalStateException */
            throw se; /* otherwise throw the caught SecurityException */
        } if (!isLaunchableSpecific())
            throw new ApplicationException(ApplicationException.APPLICATION_NOT_LAUNCHABLE, "Cannot launch the application!");
        try {
            return launchSpecific(arguments);
        } catch (IllegalStateException ise) {
            throw ise;
    }
```
/**
 * Called by launch() to create and start a new instance in an application
 * model specific way. It also creates and registeres the application handle
 * to represent the newly created and started instance and registeres it.
 * The method is synchronous, it return only when the application instance
 * was successfully started or the attempt to start it failed.
 * <p>
 * This method must not return { @code null }. If launching the application
 * failed, and exception must be thrown.
 * @param arguments the startup parameters of the new application instance,
 *        may be null
 * @return the registered application model specific application handle for
 *        the newly created and started instance.
 * @throws IllegalStateException if the application descriptor is
 *         unregistered
 * @throws Exception if any problem occurs.
 */
protected abstract ApplicationHandle launchSpecific(Map arguments) throws Exception;

/**
 * This method is called by launch() to verify that according to the
 * container, the application is launchable.
 * @return true, if the application is launchable according to the
 *         container, false otherwise.
 * @throws IllegalStateException if the application descriptor is
 *         unregistered
 */
protected abstract boolean isLaunchableSpecific();

/**
 * Schedules the application at a specified event. Schedule information
 * should not get lost even if the framework or the device restarts so it
 * should be stored in a persistent storage. The method registers a
 * { @link ScheduledApplication} service in Service Registry, representing

* The created schedules have a unique identifier within the scope of this
* [ApplicationDescriptor]. This identifier can be specified in the
* [scheduleId] argument. If this argument is [null], the
* identifier is automatically generated.

* @param scheduleId the identifier of the created schedule. It can be
*    [null], in this case the identifier is automatically
*    generated.
* @param arguments the startup arguments for the scheduled application, may
*    be null
* @param topic specifies the topic of the triggering event, it may contain
*    a trailing asterisk as wildcard, the empty string is treated as
*    "*", must not be null
* @param eventFilter specifies and LDAP filter to filter on the properties
*    of the triggering event, may be null
* @param recurring if the recurring parameter is false then the application
*    will be launched only once, when the event firstly occurs. If the
*    parameter is true then scheduling will take place for every event
*    occurrence; i.e. it is a recurring schedule

* @return the registered scheduled application service

* @throws NullPointerException if the topic is [null]
* @throws InvalidSyntaxException if the specified [eventFilter] is
*    not syntactically correct
* @throws ApplicationException if the schedule couldn't be created. The
*    possible error codes are
*    <ul>
*    <li>[APPLICATION_DUPLICATE_SCHEDULE_ID] if
*    the specified [scheduleId] is already used for this
*    [ApplicationDescriptor]</li>
*    <li>[APPLICATION_SCHEDULING_FAILED] if the
*    scheduling failed due to some internal reason (e.g. persistent
*    storage error).</li>
*    <li>[APPLICATION_INVALID_STARTUP_ARGUMENT] if
*    the specified startup argument doesn't satisfy the type or
*    value constraints of startup arguments.</li>
*    </ul>
* @throws SecurityException if the caller doesn't have "schedule"
public final ScheduledApplication schedule(String scheduleId, Map arguments, String topic, String eventFilter, boolean recurring) throws InvalidSyntaxException, ApplicationException {
    isLaunchableSpecific(); // checks if the ApplicationDescriptor was already unregistered
    try {
        return delegate.schedule(scheduleId, arguments, topic, eventFilter, recurring);
    } catch (SecurityException se) {
        isLaunchableSpecific(); /* check whether the bundle was uninstalled */
        /* if yes, throws IlleagalStateException */
        throw se; /* otherwise throw the catched SecurityException */
    }
}

/**
 * @throws SecurityException if the caller doesn't have "lock"
 * @throws IllegalStateException if the application descriptor is unregistered
 */
public final void lock() {
    try {
        delegate.lock();
    } catch (SecurityException se) {
        isLaunchableSpecific(); /* check whether the bundle was uninstalled */
        /* if yes, throws IllegalStateException */
        throw se; /* otherwise throw the catched SecurityException */
    }
    lockSpecific();
}

/**
 * @throws IllegalStateException if the application descriptor is unregistered
 */
public final void unlock() {
    try {
        delegate.unLock();
    } catch (SecurityException se) {
        isLaunchableSpecific(); /* check whether the bundle was uninstalled */
        /* if yes, throws IllegalStateException */
        throw se; /* otherwise throw the catched SecurityException */
    }
    unlockSpecific();
}

/**
 * This method is used to notify the container implementation that the corresponding application has been locked and it should update the [{code application.locked}] service property accordingly.
 * @throws IllegalStateException if the application descriptor is unregistered
 */
/**
 * Unsets the lock state of the application.
 *
 * @throws SecurityException if the caller doesn't have "lock"
 * ApplicationAdminPermission for the application.
 * @throws IllegalStateException if the application descriptor is
 * unregistered
 */
public final void unlock() {
    try {
        delegate.unlock();
    } catch (SecurityException se) {
        isLaunchableSpecific(); /* check whether the bundle was uninstalled */
        /* if yes, throws IllegalStateException */
        throw se; /* otherwise throw the caught SecurityException */
    }
    unlockSpecific();
}

/**
 * This method is used to notify the container implementation that the
 * corresponding application has been unlocked and it should update the
 * [code application.locked] service property accordingly.
 *
 * @throws IllegalStateException if the application descriptor is
 * unregistered
 */
protected abstract void unlockSpecific();

Delegate delegate;

/**
 * This class will load the class named by the
 * org.osgi.vendor.application.ApplicationDescriptor and delegate method
 * calls to an instance of the class.
 */
static class Delegate {
    static String cName;
    static Class implementation;
    static Method setApplicationDescriptor;
    static Method isLocked;
    static Method lock;
    static Method unlock;
    static Method schedule;
    static Method launch;}
static {
    AccessController.doPrivileged(new PrivilegedAction() {
        public Object run() {
            cName = System.getProperty("org.osgi.vendor.application.ApplicationDescriptor");
            if (cName == null) {
                throw new NoClassDefFoundError("org.osgi.vendor.application.ApplicationDescriptor property must be set");
            }

            try {
                implementation = Class.forName(cName);
            } catch (ClassNotFoundException e) {
                throw new NoClassDefFoundError(e.toString());
            }

            try {
                setApplicationDescriptor = implementation.getMethod("setApplicationDescriptor", new Class[]{
                    ApplicationDescriptor.class, String.class});
                isLocked = implementation.getMethod("isLocked", new Class[]{ });
                lock = implementation.getMethod("lock", new Class[]{ });
                unlock = implementation.getMethod("unlock", new Class[]{ });
                schedule = implementation.getMethod("schedule", new Class[]{ String.class, Map.class, String.class, String.class, boolean.class });
                launch = implementation.getMethod("launch", new Class[]{ Map.class });
            } catch (NoSuchMethodException e) {
                throw new NoSuchMethodError(e.toString());
            }

            return null;
        }
    });
}

Object target;

Delegate() throws Exception {
    target = AccessController.doPrivileged(new PrivilegedExceptionAction() {
        public Object run() throws Exception {
            return implementation.newInstance();
        }
    });
}

void setApplicationDescriptor(ApplicationDescriptor d, String pid) {
    try {
        setApplicationDescriptor.invoke(target, new Object[] {d, pid});
    } catch (InvocationTargetException e) {
throw e.getTargetException();

} catch (Error e) {
    throw e;
} catch (RuntimeException e) {
    throw e;
} catch (Throwable e) {
    throw new RuntimeException(e);
}

boolean isLocked() {
    try {
        try {
            return ((Boolean) isLocked.invoke(target, new Object[] {})).booleanValue();
        } catch (InvocationTargetException e) {
            throw e.getTargetException();
        }
    } catch (Error e) {
        throw e;
    } catch (RuntimeException e) {
        throw e;
    } catch (Throwable e) {
        throw new RuntimeException(e);
    }
}

void lock() {
    try {
        try {
            lock.invoke(target, new Object[] {});
        } catch (InvocationTargetException e) {
        }
    } catch (Error e) {
        throw e;
    } catch (RuntimeException e) {
        throw e;
    } catch (Throwable e) {
        throw new RuntimeException(e);
    }
}

void unlock() {
    try {
        try {
            unlock.invoke(target, new Object[] {});
        } catch (InvocationTargetException e) {
        }
    } catch (Error e) {
        throw e;
    } catch (RuntimeException e) {
        throw e;
    } catch (Throwable e) {
        throw new RuntimeException(e);
    }
}
throw e.getTargetException();
}  
} catch (Error e) {
throw e;
} catch (RuntimeException e) {
throw e;
} catch (Throwable e) {
throw new RuntimeException(e);
}

ScheduledApplication schedule(String scheduleId, Map args, String topic, String filter, boolean recurs) throws
InvalidSyntaxException, ApplicationException {
try {
try {
return (ScheduledApplication) schedule.invoke(target, new Object[] {scheduleId, args, topic, filter, new
Boolean(recurs)});
} catch (InvocationTargetException e) {
throw e.getTargetException();
}  
} catch (InvalidSyntaxException e) {
throw e;
} catch (ApplicationException e) {
throw e;
} catch (Error e) {
throw e;
} catch (RuntimeException e) {
throw e;
} catch (Throwable e) {
throw new RuntimeException(e);
}

void launch(Map arguments) throws ApplicationException {
try {
try {
launch.invoke(target, new Object[] {arguments});
} catch (InvocationTargetException e) {
throw e.getTargetException();
}  
} catch (ApplicationException e) {
throw e;
} catch (Error e) {
throw e;
} catch (RuntimeException e) {
throw e;
} catch (Throwable e) {
throw new RuntimeException(e);
}
package org.osgi.service.application;

/**
 * This exception is used to indicate problems related to application lifecycle
 * management.
 *
 * {code ApplicationException} object is created by the Application Admin to
 * denote an exception condition in the lifecycle of an application.
 * {code ApplicationException}s should not be created by developers.
 * {code ApplicationException}s are associated with an error code. This code
 * describes the type of problem reported in this exception. The possible codes
 * are:
 * <ul>
 * <li> {code APPLICATION_LOCKED} - The application couldn't be launched
 * because it is locked.</li>
 * <li> {code APPLICATION_NOT_LAUNCHABLE} - The application is not in
 * launchable state.</li>
 * <li> {code APPLICATION_INTERNAL_ERROR} - An exception was thrown by the
 * application or its container during launch.</li>
 * <li> {code APPLICATION_SCHEDULING_FAILED} - The scheduling of an application
 * failed.</li>
 * <li> {code APPLICATION_DUPLICATE_SCHEDULE_ID} - The application scheduling
 * failed because the specified identifier is already in use.</li>
 * <li> {code APPLICATION_EXITVALUE_NOT_AVAILABLE} - The exit value is not
 * available for an application instance because the instance has not
 * terminated.</li>
 * <li> {code APPLICATION_INVALID_STARTUP_ARGUMENT} - One of the specified
* startup arguments is invalid, for example its type is not permitted. </li>
* </ul>
*
* @author $Id: 5f2542a639033d6c4f85feaf1cbe7f1f0a9d892f $  
*/
public class ApplicationException extends Exception {
    private static final long serialVersionUID = -7173190453622508207L;
    private final int errorCode;

    /**
     * The application couldn't be launched because it is locked.
     */
    public static final int APPLICATION_LOCKED = 0x01;

    /**
     * The application is not in launchable state, it's
     * [@link ApplicationDescriptor#APPLICATION_LAUNCHABLE] attribute is false.
     */
    public static final int APPLICATION_NOT_LAUNCHABLE = 0x02;

    /**
     * An exception was thrown by the application or the corresponding container
     * during launch. The exception is available from [@code getCause()].
     */
    public static final int APPLICATION_INTERNAL_ERROR = 0x03;

    /**
     * The application schedule could not be created due to some internal error
     * (for example, the schedule information couldn't be saved due to some
     * storage error).
     */
    public static final int APPLICATION_SCHEDULING_FAILED = 0x04;

    /**
     * The application scheduling failed because the specified identifier is
     * already in use.
     */
    public static final int APPLICATION_DUPLICATE_SCHEDULE_ID = 0x05;

    /**
     * The exit value is not available for an application instance because the
     * instance has not terminated.
     */
    public static final int APPLICATION_EXITVALUE_NOT_AVAILABLE = 0x06;
* One of the specified startup arguments is invalid, for example its type
* is not permitted.
*
* @since 1.1
*/
public static final int APPLICATION_INVALID_STARTUP_ARGUMENT = 0x07;

/**
 * Creates an [@code ApplicationException] with the specified error code.
 * 
 * @param errorCode The code of the error
 */
public ApplicationException(int errorCode) {
    super();
    this.errorCode = errorCode;
}

/**
 * Creates a [@code ApplicationException] that wraps another exception.
 * 
 * @param errorCode The code of the error
 * @param cause The cause of this exception.
 */
public ApplicationException(int errorCode, Throwable cause) {
    super(cause);
    this.errorCode = errorCode;
}

/**
 * Creates an [@code ApplicationException] with the specified error code.
 * 
 * @param errorCode The code of the error
 * @param message The associated message
 */
public ApplicationException(int errorCode, String message) {
    super(message);
    this.errorCode = errorCode;
}

/**
 * Creates a [@code ApplicationException] that wraps another exception.
 * 
 * @param errorCode The code of the error
 * @param message The associated message.
 * @param cause The cause of this exception.
 */
public ApplicationException(int errorCode, String message, Throwable cause) {
    super(message, cause);
this.errorCode = errorCode;
}

/**< *
 * Returns the cause of this exception or [@code null] if no cause was set.
 * @return The cause of this exception or [@code null] if no cause was set.
 */
public Throwable getCause() {
    return super.getCause();
}

/**< *
 * Returns the error code associated with this exception.
 * @return The error code of this exception.
 */
public int getErrorCode() {
    return errorCode;
}

/*
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 *
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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.osgi.service.application;

import java.lang.reflect.InvocationTargetException;
import java.lang.reflect.Method;
import java.security.AccessController;
import java.security.PrivilegedAction;
import java.security.PrivilegedExceptionAction;
import java.security.PrivilegedExceptionAction;
import org.osgi.framework.Constants;

/**< *
 * ApplicationHandle is an OSGi service interface which represents an instance
of an application. It provides the functionality to query and manipulate the
lifecycle state of the represented application instance. It defines constants
for the lifecycle states.

* @author $Id: 4a9c1d6258e03ce4eb1a26748bccf83661ad8244 $
*/

public abstract class ApplicationHandle {
  *
  * NOTE: An implementor may also choose to replace this class in their
  * distribution with a class that directly interfaces with the
  * org.osgi.service.application implementation. This replacement class MUST
  * NOT alter the public/protected signature of this class.
  */

  /**
   * The property key for the unique identifier (PID) of the application
   * instance.
   */
  public static final String APPLICATION_PID = Constants.SERVICE_PID;

  /**
   * The property key for the pid of the corresponding application descriptor.
   */
  public final static String APPLICATION_DESCRIPTOR = "application.descriptor";

  /**
   * The property key for the state of this application instance.
   */
  public final static String APPLICATION_STATE = "application.state";

  /**
   * The property key for the supports exit value property of this application
   * instance.
   *
   * @since 1.1
   */
  public final static String APPLICATION_SUPPORTS_EXITVALUE = "application.supports.exitvalue";

  /**
   * The application instance is running. This is the initial state of a newly
   * created application instance.
   */
  public final static String RUNNING = "RUNNING";

  /**
   * The application instance is being stopped. This is the state of the
   * application instance during the execution of the [@code destroy()]
   * method.
   */
public final static String STOPPING = "STOPPING";

private final String instanceId;

private final ApplicationDescriptor descriptor;

/**
 * Application instance identifier is specified by the container when the
 * instance is created. The instance identifier must remain static for the
 * lifetime of the instance, it must remain the same even across framework
 * restarts for the same application instance. This value must be the same
 * as the @code service.pid service property of this application handle.
 * <p>
 * The instance identifier should follow the following scheme:
 * &lt;application descriptor PID&gt;.&lt;index&gt; where
 * &lt;application descriptor PID&gt; is the PID of the corresponding
 * ApplicationDescriptor and &lt;index&gt; is a unique
 * integer index assigned by the application container. Even after
 * destroying the application index the same index value should not be
 * reused in a reasonably long timeframe.
 * <p>
 * @param instanceId the instance identifier of the represented application
 * instance. It must not be null.
 * <p>
 * @param descriptor the ApplicationDescriptor of the represented
 * application instance. It must not be null.
 * <p>
 * @throws NullPointerException if any of the arguments is null.
 */
protected ApplicationHandle(String instanceId, ApplicationDescriptor descriptor) {
    if ((null == instanceId) || (null == descriptor)) {
        throw new NullPointerException("Parameters must not be null!");
    }

    this.instanceId = instanceId;
    this.descriptor = descriptor;

    try {
        delegate = new Delegate();
        delegate.setApplicationHandle(this, descriptor.delegate);
    } catch (Exception e) {
        // Too bad ...
        e.printStackTrace();
        System.err.println("No implementation available for ApplicationDescriptor, property is: " + Delegate.cName);
    }
}
/**
 * Retrieves the {@code ApplicationDescriptor} to which this
 * {@code ApplicationHandle} belongs.
 *
 * @return The corresponding {@code ApplicationDescriptor}
 */
public final ApplicationDescriptor getApplicationDescriptor() {
    return descriptor;
}

/**
 * Get the state of the application instance.
 *
 * @return the state of the application.
 *
 * @throws IllegalStateException if the application handle is unregistered
 */
public abstract String getState();

/**
 * Returns the exit value for the application instance. The timeout
 * specifies how the method behaves when the application has not yet
 * terminated. A negative, zero or positive value may be used.
 *<ul>
 * <li>negative - The method does not wait for termination. If the
 * application has not terminated then an {@code ApplicationException} is
 * thrown.</li>
 *<li>zero - The method waits until the application terminates.</li>
 *<li>positive - The method waits until the application terminates or the
 * timeout expires. If the timeout expires and the application has not
 * terminated then an {@code ApplicationException} is thrown.</li>
 *</ul>
 *The default implementation throws an
 *{@code UnsupportedOperationException}. The application model should
 *override this method if exit values are supported.
 *
 * @param timeout The maximum time in milliseconds to wait for the
 * application to timeout.
 * @return The exit value for the application instance. The value is
 * application specific.
 * @throws UnsupportedOperationException If the application model does not
 * support exit values.
 * @throws InterruptedException If the thread is interrupted while waiting
 * for the timeout.
public Object getExitValue(long timeout) throws ApplicationException, InterruptedException {
    throw new UnsupportedOperationException();
}

/**
 * Returns the unique identifier of this instance. This value is also
 * available as a service property of this application handle's service.pid.
 *
 * @return the unique identifier of the instance
 */
public final String getInstanceId() {
    return instanceId;
}

/**
 * The application instance's lifecycle state can be influenced by this
 * method. It lets the application instance perform operations to stop the
 * application safely, e.g. saving its state to a permanent storage.
 *
 * The method must check if the lifecycle transition is valid; a STOPPING
 * application cannot be stopped. If it is invalid then the method must
 * exit. Otherwise the lifecycle state of the application instance must be
 * set to STOPPING. Then the destroySpecific() method must be called to
 * perform any application model specific steps for safe stopping of the
 * represented application instance.
 *
 * At the end the { @code ApplicationHandle} must be unregistered. This
 * method should free all the resources related to this
 *
 * When this method is completed the application instance has already made
 * its operations for safe stopping, the ApplicationHandle has been
 * unregistered and its related resources has been freed. Further calls on
 * this application should not be made because they may have unexpected
 * results.
 *
 * @throws SecurityException if the caller doesn't have "lifecycle"
 *         { @code ApplicationAdminPermission} for the corresponding
 *         application.
 *
 * @throws IllegalStateException if the application handle is unregistered
 */
public final void destroy() {
    try {
        delegate.destroy();
    } catch (SecurityException se) {
        descriptor.isLaunchableSpecific(); /*
            * check whether the bundle was
            * uninstalled
            */
        /* if yes, throws IllegalStateException */
        throw se; /* otherwise throw the caught SecurityException */
    }
    destroySpecific();
}

/**
   * Called by the destroy() method to perform application model specific
   * steps to stop and destroy an application instance safely.
   *
   * @throws IllegalStateException if the application handle is unregistered
   */
protected abstract void destroySpecific();

Delegatedelegate;

/**
   * This class will load the class named by the
   * org.osgi.vendor.application.ApplicationHandle and delegate method calls
   * to an instance of the class.
   */
static class Delegate {
    static String cName;
    static Class implementation;
    static Method setApplicationHandle;
    static Method destroy;
    static {
        AccessController.doPrivileged(new PrivilegedAction() {
            public Object run() {
                cName = System.getProperty("org.osgi.vendor.application.ApplicationHandle");
                if (cName == null) {
                    throw new NoClassDefFoundError("org.osgi.vendor.application.ApplicationHandle property must be set");
                }
                try {
                    implementation = Class.forName(cName);
                    } catch (ClassNotFoundException e) {
                        throw new NoClassDefFoundError(e.toString());
                    }
            }
        });
    }
    try {
        implementation = Class.forName(cName);
        } catch (ClassNotFoundException e) {
            throw new NoClassDefFoundError(e.toString());
        }
try {
    setApplicationHandle = implementation.getMethod("setApplicationHandle", new Class[] {ApplicationHandle.class, Object.class});
    destroy = implementation.getMethod("destroy", new Class[] {});
} catch (NoSuchMethodException e) {
    throw new NoSuchMethodError(e.toString());
}

return null;
}
}

Object target;

Delegate() throws Exception {
    target = AccessController.doPrivileged(new PrivilegedExceptionAction() {
        public Object run() throws Exception {
            return implementation.newInstance();
        }
    });
}

void setApplicationHandle(ApplicationHandle d, ApplicationDescriptor.Delegate descriptor) {
    try {
        try {
            setApplicationHandle.invoke(target, new Object[] {d, descriptor.target});
        } catch (InvocationTargetException e) {
            throw e.getTargetException();
        }
    } catch (Error e) {
    } catch (RuntimeException e) {
    } catch (Throwable e) {
        throw new RuntimeException(e);
    }
}

void destroy() {
    try {
        try {
            destroy.invoke(target, new Object[] {});
        } catch (InvocationTargetException e) {
            throw e.getTargetException();
        }
    } catch (Error e) {
    } catch (RuntimeException e) {
    } catch (Throwable e) {
throw e;
} catch (RuntimeException e) {
throw e;
} catch (Throwable e) {
throw new RuntimeException(e);
}
}
}

package org.osgi.service.application;

import java.util.Map;

/**
 * It is allowed to schedule an application based on a specific event. ScheduledApplication service keeps the schedule information. When the specified event is fired a new instance must be launched. Note that launching operation may fail because e.g. the application is locked.
 * Each [code ScheduledApplication] instance has an identifier which is unique within the scope of the application being scheduled.
 * [code ScheduledApplication] instances are registered as services. The [link APPLICATION_PID] service property contains the PID of the application being scheduled, the [link SCHEDULE_ID] service property contains the schedule identifier.
 * @author $Id: 69c9a4995399ff1619ec236dcb9ae2553a12d1ae $
 */
public interface ScheduledApplication {

/**
 * Copyright (c) OSGi Alliance (2004, 2013). All Rights Reserved.
 * Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at
 * http://www.apache.org/licenses/LICENSE-2.0
 * Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.
 */
/*
 */
* The property key for the identifier of the application being scheduled.

```
* The property key for the schedule identifier. The identifier is unique
  * within the scope of the application being scheduled.
```

```
public static final String APPLICATION_PID = ApplicationDescriptor.APPLICATION_PID;
```

```
* The property key for the schedule identifier. The identifier is unique
  * within the scope of the application being scheduled.
```

```
public static final String SCHEDULE_ID = "schedule.id";
```

```
* The key for the startup argument used to pass the event object that
  * triggered the schedule to launch the application instance. The event is
  * passed in a [@link java.security.GuardedObject] protected by the
  * corresponding [@link org.osgi.service.event.TopicPermission].
```

```
public static final String TRIGGERING_EVENT = "org.osgi.triggeringevent";
```

```
* The topic name for the virtual timer topic. Time based schedules should
  * be created using this topic.
```

```
public static final String TIMER_TOPIC = "org/osgi/application/timer";
```

```
* The name of the <i>year</i> attribute of a virtual timer event. The value
  * is defined by [@link java.util.Calendar#YEAR].
```

```
public static final String YEAR = "year";
```

```
* The name of the <i>month</i> attribute of a virtual timer event. The
  * value is defined by [@link java.util.Calendar#MONTH].
```

```
public static final String MONTH = "month";
```

```
* The name of the <i>day of month</i> attribute of a virtual timer event.
  * The value is defined by [@link java.util.Calendar#DAY_OF_MONTH].
```

```
public static final String DAY_OF_MONTH = "day_of_month";
```

```
* The name of the <i>day of week</i> attribute of a virtual timer event.
  * The value is defined by [@link java.util.Calendar#DAY_OF_WEEK].
```

```
public static final String DAY_OF_WEEK = "day_of_week";
```
/**
 * The name of the <i>hour of day</i> attribute of a virtual timer event.
 * The value is defined by [@link java.util.Calendar#HOUR_OF_DAY].
 */
public static final String HOUR_OF_DAY = "hour_of_day";

/**
 * The name of the <i>minute</i> attribute of a virtual timer event. The
 * value is defined by [@link java.util.Calendar#MINUTE].
 */
public static final String MINUTE = "minute";

/**
 * Returns the identifier of this schedule. The identifier is unique within
 * the scope of the application that the schedule is related to.
 *
 * @return the identifier of this schedule
 *
 */
public String getScheduleId();

/**
 * Queries the topic of the triggering event. The topic may contain a
 * trailing asterisk as wildcard.
 *
 * @return the topic of the triggering event
 *
 * @throws IllegalStateException if the scheduled application service is
 *         unregistered
 *
 */
public String getTopic();

/**
 * Queries the event filter for the triggering event.
 *
 * @return the event filter for triggering event
 *
 * @throws IllegalStateException if the scheduled application service is
 *         unregistered
 *
 */
public String getEventFilter();

/**
 * Queries if the schedule is recurring.
 *
 * @return true if the schedule is recurring, otherwise returns false
 *
 * @throws IllegalStateException if the scheduled application service is
public boolean isRecurring();

/**
 * Retrieves the ApplicationDescriptor which represents the application and
 * necessary for launching.
 *
 * @return the application descriptor that represents the scheduled
 * application
 *
 * @throws IllegalStateException if the scheduled application service is
 * unregistered
 */
public ApplicationDescriptor getApplicationDescriptor();

/**
 * Queries the startup arguments specified when the application was
 * scheduled. The method returns a copy of the arguments, it is not possible
 * to modify the arguments after scheduling.
 *
 * @return the startup arguments of the scheduled application. It may be
 * null if null argument was specified.
 *
 * @throws IllegalStateException if the scheduled application service is
 * unregistered
 */
public Map getArguments();

/**
 * Cancels this schedule of the application.
 *
 * @throws SecurityException if the caller doesn't have "schedule"
 * ApplicationAdminPermission for the scheduled application.
 * @throws IllegalStateException if the scheduled application service is
 * unregistered
 */
public void remove();
}
package org.osgi.service.cm;

import java.io.IOException;
import java.io.ObjectInputStream;
import java.io.ObjectOutputStream;
import java.io.ObjectStreamField;
import java.security.BasicPermission;
import java.security.Permission;
import java.security.PermissionCollection;
import java.util.ArrayList;
import java.util.Collection;
import java.util.Collections;
import java.util.Enumeration;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
import org.osgi.framework.Filter;

/**
 * Indicates a bundle's authority to configure bundles or be updated by
 * Configuration Admin.
 * 
 * @ThreadSafe
 * 
 * @author $Id: 8d063b34f0b7e467b8b7ecd8b8e6d42384fdcb7$
 * @since 1.2
 */

public final class ConfigurationPermission extends BasicPermission {
    static final long serialVersionUID = 5716868734811965383L;

    /**
     * Provides permission to create new configurations for other bundles as
     * well as manipulate them. The action string {@value #CONFIGURE}.
     */
    public final static String CONFIGURE = "configure";

    /**
     * The permission to be updated, that is, act as a Managed Service or
     * Managed Service Factory. The action string {@value #TARGET}.
     */
    
    @since 1.4
    */

    public final static String CONFIGURE = "configure";
public final static String TARGET = "target";

private final static int ACTION_CONFIGURE = 0x00000001;
private final static int ACTION_TARGET = 0x00000002;
private final static int ACTION_ALL = ACTION_CONFIGURE | ACTION_TARGET;
final static int ACTION_NONE = 0;

/**
 * The actions mask.
 */
transient int action_mask;

/**
 * The actions in canonical form.
 *
 * @serial
 */
private volatile String actions = null;

/**
 * Parsed name if it includes wildcards: "*"
 */
private transient List<String> substrings;

/**
 * Create a new ConfigurationPermission.
 *
 * @param name Name of the permission. Wildcards (@code '*') are allowed
 * in the name. During [@link #implies(Permission)], the name is
 * matched to the requested permission using the substring matching
 * rules used by [@link Filter]s.
 * @param actions Comma separated list of [@link #CONFIGURE],
 * [@link #TARGET] (case insensitive).
 */

public ConfigurationPermission(String name, String actions) {
this(name, parseActions(actions));
}

/**
 * Package private constructor used by ConfigurationPermissionCollection.
 *
 * @param name location string
 * @param mask action mask
 */
ConfigurationPermission(String name, int mask) {
super(name);
setTransients(mask);
/**
 * Called by constructors and when deserialized.
 * @param mask action mask
 */
private void setTransients(int mask) {
if ((mask == ACTION_NONE) || ((mask & ACTION_ALL) != mask)) {
throw new IllegalArgumentException("invalid action string");
}
action_mask = mask;
substrings = parseSubstring(getName());
}

/**
 * Parse action string into action mask.
 * @param actions Action string.
 * @return action mask.
 */
private static int parseActions(String actions) {
boolean seencomma = false;
int mask = ACTION_NONE;
if (actions == null) {
return mask;
}
char[] a = actions.toCharArray();
int i = a.length - 1;
if (i < 0)
return mask;
while (i != -1) {
char c;

// skip whitespace
while ((i != -1) && ((c = a[i]) == ' ' || c == '
' || c == '' || c == '' || c == '	'))
i--;

// check for the known strings
int matchlen;
if (i >= 5 && (a[i] == 't' || a[i - 5] == 'T')
&& (a[i - 4] == 'a' || a[i - 4] == 'A'))
&& (a[i - 3] == 'r' || a[i - 3] == 'R')
&& (a[i - 2] == 'g' || a[i - 2] == 'G')
&& (a[i - 1] == 'e' || a[i - 1] == 'E')
&& (a[i] == 't' || a[i] == 'T')) {
    matchlen = 6;
    mask |= ACTION_TARGET;
}

} else
if (i >= 8 && (a[i - 8] == 'c' || a[i - 8] == 'C')
&& (a[i - 7] == 'o' || a[i - 7] == 'O')
&& (a[i - 6] == 'n' || a[i - 6] == 'N')
&& (a[i - 5] == 'f' || a[i - 5] == 'F')
&& (a[i - 4] == 'i' || a[i - 4] == 'I')
&& (a[i - 3] == 'g' || a[i - 3] == 'G')
&& (a[i - 2] == 'u' || a[i - 2] == 'U')
&& (a[i - 1] == 'r' || a[i - 1] == 'R')
&& (a[i] == 'e' || a[i] == 'E')) {
    matchlen = 9;
    mask |= ACTION_CONFIGURE;
}

} else {
// parse error
throw new IllegalArgumentException("invalid actions: "+ actions);
}

// make sure we didn't just match the tail of a word
// like "ackbarftarget". Also, skip to the comma.
seencomma = false;
while (i >= matchlen && !seencomma) {
    switch (a[i - matchlen]) {
    case ',' :
        seencomma = true;
        /* FALLTHROUGH */
    case ' ' :
    case '' :
    case '
' :
    case '' :
    case '	' :
        break;
    default :
        throw new IllegalArgumentException("invalid permission: "+ actions);
    }
    i--;
}

// point i at the location of the comma minus one (or -1).
i -= matchlen;
}
if (seencomma) {
    throw new IllegalArgumentException("invalid actions: " + actions);
}

return mask;
}

/**
 * Parse the name for wildcard processing.
 *
 * @param name The name of the permission.
 * @return {@code null} is the name has no wildcards or a
 *         {@code List<String>} where element is a substring to match or
 *         null for {@code *'}.  
 */
private static List<String> parseSubstring(String name) {
    if (name.indexOf('*') < 0) {
        return null;
    }
    char[] chars = name.toCharArray();
    StringBuffer sb = new StringBuffer(chars.length);
    List<String> sub = new ArrayList<String>(10);
    for (int pos = 0; pos < chars.length; pos++) {
        char c = chars[pos];
        switch (c) {
        case '*': {
            if (sb.length() > 0) {
                sub.add(sb.toString());
            }
            sb.setLength(0);
            sub.add(null);
            break;
        }
        case '\': {
            pos++;
            if (pos < chars.length) {
                c = chars[pos];
            }
            /* fall through into default */
        }
        default: {
            sb.append(c);
        }
    }
    List<String> sub = new ArrayList<String>(10);
    for (int pos = 0; pos < chars.length; pos++) {
        char c = chars[pos];
        switch (c) {
        case '*': {
            if (sb.length() > 0) {
                sub.add(sb.toString());
            }
            sb.setLength(0);
            sub.add(null);
            break;
        }
        case '\': {
            pos++;
            if (pos < chars.length) {
                c = chars[pos];
            }
            /* fall through into default */
        }
        default: {
            sb.append(c);
if (sb.length() > 0) {
    sub.add(sb.toString());
}

int size = sub.size();

if (size == 0) {
    return null;
}

if (size == 1) {
    if (sub.get(0) != null) {
        return null;
    }
}
return sub;

/**
 * Determines if a @code ConfigurationPermission} object "implies" the
 * specified permission.
 *
 * @param p The target permission to check.
 * @return @code true} if the specified permission is implied by this
 *        object; @code false} otherwise.
 */

public boolean implies(Permission p) {
    if (!(p instanceof ConfigurationPermission)) {
        return false;
    }
    ConfigurationPermission requested = (ConfigurationPermission) p;
    return implies0(requested, ACTION_NONE);
}

/**
 * Internal implies method. Used by the implies and the permission
 * collection implies methods.
 *
 * @param requested The requested ConfigurationPermission which has already
 *        be validated as a proper argument.
 * @param effective The effective actions with which to start.
 * @return @code true} if the specified permission is implied by this
 *        object; @code false} otherwise.
 */
boolean implies0(ConfigurationPermission requested, int effective) {
    /* check actions first - much faster */
    effective |= action_mask;
    final int desired = requested.action_mask;
    if ((effective & desired) != desired) {
        return false;
    }
    String requestedName = requested.getName();
    if (substrings == null) {
        return getName().equals(requestedName);
    }
    for (int i = 0, pos = 0, size = substrings.size(); i < size; i++) {
        String substr = substrings.get(i);
        if (i + 1 < size) /* if this is not that last substr */ {
            if (substr == null) /* */ {
                String substr2 = substrings.get(i + 1);
                if (substr2 == null) /* */ {
                    continue; /* ignore first star */
                    /* xxx */
                    int index = requestedName.indexOf(substr2, pos);
                    if (index == -1) {
                        return false;
                    }
                   ,pos = index + substr2.length();
                } else /* xxx */ {
                    int len = substr.length();
                    if (requestedName.regionMatches(pos, substr, 0, len)) {
                        pos += len;
                    } else {
                        return false;
                    }
                } else /* last substr */ {
                    if (substr == null) /* */ {
                        return true;
                    } /* xxx */
                } /* last substr */
            } else /* xxx */ {
                int len = substr.length();
                if (requestedName.regionMatches(pos, substr, 0, len)) {
                    pos += len;
                } else {
                    return false;
                }
            } /* last substr */
        } else /* last substr */ {
            if (substr == null) /* */ {
                return true;
            } /* xxx */
        }
    } /* last substr */
} /* last substr */
return requestedName.endsWith(substr);
}

return false;

/**
 * Determines the equality of two {@code ConfigurationPermission} objects.
 * <p>
 * Two {@code ConfigurationPermission} objects are equal.
 * <p>
 * @param obj The object being compared for equality with this object.
 * @return true if {code ConfigurationPermission} is equivalent to this
 *         {code ConfigurationPermission}; false otherwise.
 */
public boolean equals(Object obj) {
    if (obj == this) {
        return true;
    }
    if (!(obj instanceof ConfigurationPermission)) {
        return false;
    }
    ConfigurationPermission cp = (ConfigurationPermission) obj;

    return (action_mask == cp.action_mask) && getName().equals(cp.getName());
}

/**
 * Returns the hash code value for this object.
 * <p>
 * @return Hash code value for this object.
 */
public int hashCode() {
    int h = 31 * 17 + getName().hashCode();
    h = 31 * h + getActions().hashCode();
    return h;
}

/**
 * Returns the canonical string representation of the
 * {code ConfigurationPermission} actions.
 * <p>
 * Always returns present {code ConfigurationPermission} actions in the

public String getActions() {
    String result = actions;
    if (result == null) {
        StringBuffer sb = new StringBuffer();
        boolean comma = false;

        int mask = action_mask;
        if ((mask & ACTION_CONFIGURE) == ACTION_CONFIGURE) {
            sb.append(CONFIGURE);
            comma = true;
        }
        if ((mask & ACTION_TARGET) == ACTION_TARGET) {
            if (comma)
                sb.append(',');
            sb.append(TARGET);
        }
        actions = result = sb.toString();
    }

    return result;
}

/**
 * Returns a new {@code PermissionCollection} object suitable for storing
 * [{@code ConfigurationPermission}]{@code ConfigurationPermission}'s.
 * @return A new {@code PermissionCollection} object.
 */
public PermissionCollection newPermissionCollection() {
    return new ConfigurationPermissionCollection();
}

/**
 * WriteObject is called to save the state of this permission object to a
 * stream. The actions are serialized, and the superclass takes care of the
 * name.
 */
private synchronized void writeObject(java.io.ObjectOutputStream s) throws IOException {
    // Write out the actions. The superclass takes care of the name
    // call getActions to make sure actions field is initialized
    if (actions == null)

getActions();
s.defaultWriteObject();
}

/**
 * readObject is called to restore the state of this permission from a
 * stream.
 */
private synchronized void readObject(java.io.ObjectInputStream s) throws IOException, ClassNotFoundException {
    // Read in the data, then initialize the transients
    s.defaultReadObject();
    setTransients(parseActions(actions));
}

/**
 * Stores a set of {code ConfigurationPermission} permissions.
 *
 * @see java.security.Permission
 * @see java.security.Permissions
 * @see java.security.PermissionCollection
 */
final class ConfigurationPermissionCollection extends PermissionCollection {
    static final long serialVersionUID = -691763867081695839L;
    /**
     * Collection of permissions.
     *
     * @serial
     * @GuardedBy this
     */
    private Map<String, ConfigurationPermission> permissions;

    /**
     * Boolean saying if * is in the collection.
     *
     * @serial
     * @GuardedBy this
     */
    private boolean all_allowed;

    /**
     * Creates an empty {code ConfigurationPermissionCollection} object.
     *
     */
    public ConfigurationPermissionCollection() {
        permissions = new HashMap<String, ConfigurationPermission>();
        all_allowed = false;
    }
}
/**
 * Adds the specified permission to the
 * {code ConfigurationPermissionCollection}. The key for the hash is the
 * interface name of the service.
 *
 * @param permission The {code Permission} object to add.
 *
 * @exception IllegalArgumentException If the permission is not an
 *      {code ConfigurationPermission}.
 *
 * @exception SecurityException If this ConfigurationPermissionCollection
 *      object has been marked read-only.
 */

public void add(Permission permission) {
if (!(permission instanceof ConfigurationPermission)) {
throw new IllegalArgumentException("invalid permission: " + permission);
}
if (isReadOnly())
throw new SecurityException("attempt to add a Permission to a " + "readonly PermissionCollection");

final ConfigurationPermission cp = (ConfigurationPermission) permission;
final String name = cp.getName();
synchronized (this) {
    Map<String, ConfigurationPermission> pc = permissions;
    final ConfigurationPermission existing = pc.get(name);
    if (existing != null) {
        final int oldMask = existing.action_mask;
        final int newMask = cp.action_mask;
        if (oldMask != newMask) {
            pc.put(name, new ConfigurationPermission(name, oldMask | newMask));
        }
    } else {
        pc.put(name, cp);
    }
    if (!all_allowed) {
        if (name.equals("*")) {
            all_allowed = true;
        }
    }
}
}

/**
 * Determines if the specified permissions implies the permissions expressed

public boolean implies(Permission permission) {
    if (!(permission instanceof ConfigurationPermission)) {
        return false;
    }
    final ConfigurationPermission requested = (ConfigurationPermission) permission;
    int effective = ConfigurationPermission.ACTION_NONE;

    Collection<ConfigurationPermission> perms;
    synchronized (this) {
        Map<String, ConfigurationPermission> pc = permissions;
        /* short circuit if the "*" Permission was added */
        if (all_allowed) {
            ConfigurationPermission cp = pc.get("*");
            if (cp != null) {
                effective |= cp.action_mask;
                final int desired = requested.action_mask;
                if ((effective & desired) == desired) {
                    return true;
                }
            }
        }
        perms = pc.values();
    }
    /* iterate one by one over permissions */
    for (ConfigurationPermission perm : perms) {
        if (perm.implies0(requested, effective)) {
            return true;
        }
    }
    return false;
}

/**
 * Returns an enumeration of all @code ConfigurationPermission] objects in
 * the container.
 *
 * @return Enumeration of all @code ConfigurationPermission] objects.
 */
public synchronized Enumeration<Permission> elements() {
    List<Permission> all = new ArrayList<Permission>(permissions.values());
    return Collections.enumeration(all);
private static final ObjectStreamField[] serialPersistentFields = {new ObjectStreamField("hasElement", Boolean.TYPE), new ObjectStreamField("permissions", HashMap.class), new ObjectStreamField("all_allowed", Boolean.TYPE)};

private synchronized void writeObject(ObjectOutputStream out) throws IOException {
    ObjectOutputStream.PutField pfields = out.putFields();
    pfields.put("hasElement", false);
    pfields.put("permissions", permissions);
    pfields.put("all_allowed", all_allowed);
    out.writeFields();
}

private synchronized void readObject(java.io.ObjectInputStream in) throws IOException, ClassNotFoundException {
    ObjectInputStream.GetField gfields = in.readFields();
    boolean hasElement = gfields.get("hasElement", false);
    if (hasElement) { // old format
        permissions = new HashMap<String, ConfigurationPermission>();
        permissions.put("*", new ConfigurationPermission("*", ConfigurationPermission.CONFIGURE));
        all_allowed = true;
    } else {
        permissions = (HashMap<String, ConfigurationPermission>) gfields.get("permissions", new HashMap<String, ConfigurationPermission>);
        all_allowed = gfields.get("all_allowed", false);
    }
}

package org.osgi.service.component.annotations;
/**
 * Configuration Policy for the [@link Component] annotation.
 *
 * <p>
 * Controls whether component configurations must be satisfied depending on the
 * presence of a corresponding Configuration object in the OSGi Configuration
 * Admin service. A corresponding configuration is a Configuration object where
 * the PID is the name of the component.
 *
 * @author $Id: 2bb2640aedd7d09de30e9ec3f471f6a8cccfef3c $
 * @since 1.1
 */

public enum ConfigurationPolicy {

    /**
     * Use the corresponding Configuration object if present but allow the
     * component to be satisfied even if the corresponding Configuration object
     * is not present.
     */
    OPTIONAL("optional"),

    /**
     * There must be a corresponding Configuration object for the component
     * configuration to become satisfied.
     */
    REQUIRE("require"),

    /**
     * Always allow the component configuration to be satisfied and do not use
     * the corresponding Configuration object even if it is present.
     */
    IGNORE("ignore"),

private final String value;

ConfigurationPolicy(String value) {
    this.value = value;
}

@Override
public String toString() {
    return value;
}

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 */
package org.osgi.service.component.annotations;

/**
* Policy for the @Reference annotation.
* @author $Id: 835125670fa25ca1205beacabb2d4cfa5896fd4$
*/
public enum ReferencePolicy {
    /**
     * The static policy is the most simple policy and is the default policy. A
     * component instance never sees any of the dynamics. Component
     * configurations are deactivated before any bound service for a reference
     * having a static policy becomes unavailable. If a target service is
     * available to replace the bound service which became unavailable, the
     * component configuration must be reactivated and bound to the replacement
     * service.
     */
    STATIC("static"),

    /**
     * The dynamic policy is slightly more complex since the component
     * implementation must properly handle changes in the set of bound services.
     * With the dynamic policy, SCR can change the set of bound services without
     * deactivating a component configuration. If the component uses the event
     * strategy to access services, then the component instance will be notified
     * of changes in the set of bound services by calls to the bind and unbind
     * methods.
     */
    DYNAMIC("dynamic"),

    private final String value;
    ReferencePolicy(String value) {
      this.value = value;
    }

    @Override
public String toString() {
    return value;
}
}
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 * limitations under the License.
 */
package org.osgi.service.component.annotations;

/**
 * Policy option for the [@link Reference] annotation.
 *
 * @author $Id: 1023cb41ab8539820d1658af1eb7d08944932353 $
 * @since 1.2
 */
public enum ReferencePolicyOption {
    /**
     * The reluctant policy option is the default policy option for both
     * [@link ReferencePolicy#STATIC static] and [@link ReferencePolicy#DYNAMIC
     * dynamic] reference policies. When a new target service for a reference
     * becomes available, references having the reluctant policy option for the
     * static policy or the dynamic policy with a unary cardinality will ignore
     * the new target service. References having the dynamic policy with a
     * multiple cardinality will bind the new target service.
     */
    RELUCTANT("reluctant"),

    /**
     * The greedy policy option is a valid policy option for both
     * [@link ReferencePolicy#STATIC static] and [@link ReferencePolicy#DYNAMIC
     * dynamic] reference policies. When a new target service for a reference
     * becomes available, references having the greedy policy option will bind
     * the new target service.
     */
    GREEDY("greedy");
private final String value;

ReferencePolicyOption(String value) {
this.value = value;
}

@Override
public String toString() {
return value;
}

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* limitations under the License. 
*/

package org.osgi.service.coordinator;

import java.io.IOException;
import java.io.NotSerializableException;
import java.io.ObjectInputStream;
import java.io.ObjectOutputStream;
import java.io.ObjectStreamField;
import java.security.AccessController;
import java.security.BasicPermission;
import java.security.Permission;
import java.security.PermissionCollection;
import java.security.PrivilegedAction;
import java.security.cert.X509Certificate;
import java.util.ArrayList;
import java.util.Collection;
import java.util.Collections;
import java.util.Enumeration;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
import org.osgi.framework.Bundle;
import org.osgi.framework.Filter;
import org.osgi.framework.FrameworkUtil;
import org.osgi.framework.InvalidSyntaxException;

/**
 * A bundle's authority to create or use a [@link Coordination].
 *
 * [@code CoordinationPermission] has three actions: [@code initiate],
 * [@code participate] and [@code admin].
 *
 * @ThreadSafe
 * @author $Id: 13aa34eaea5f268a315be475fa8bb7b2718415bd $
 */
public final class CoordinationPermission extends BasicPermission {

private static final long serialVersionUID = 1L;

/**
 * The action string [@code initiate].
 */
public final static String INITIATE = "initiate";
/**
 * The action string [@code participate].
 */
public final static String PARTICIPATE = "participate";
/**
 * The action string [@code admin].
 */
public final static String ADMIN = "admin";

private final static int ACTION_INITIATE = 0x00000001;
private final static int ACTION_PARTICIPATE = 0x00000002;
private final static int ACTION_ADMIN = 0x00000004;
private final static int ACTION_ALL = ACTION_INITIATE | ACTION_PARTICIPATE | ACTION_ADMIN;
final static int ACTION_NONE = 0;

/**
 * The actions mask.
 */
transient int action_mask;

/**
 * The actions in canonical form.
 */

*/
private volatile String actions = null;

/**
* The bundle used by this CoordinationPermission.
*/
transient final Bundle bundle;

/**
* If this CoordinationPermission was constructed with a filter, this holds
* a Filter matching object used to evaluate the filter in implies.
*/
transient Filter filter;

/**
* This map holds the properties of the permission, used to match a filter
* in implies. This is not initialized until necessary, and then cached in
* this object.
*/
private transient volatile Map<String, Object> properties;

/**
* Creates a new granted { CoordinationPermission } object.
*
* This constructor must only be used to create a permission that is going
* to be checked.
* <p>
* Examples:
* <ul>
* <li>(coordination.name=com.acme.*)</li>
* <li>(signer=\*, o=ACME, c=US)(coordination.name=com.acme.*)</li>
* </ul>
* When a signer key is used within the filter expression the signer value
* must escape the special filter chars ('*', ',', '.').
* <p>
* The name is specified as a filter expression. The filter gives access to
* the following attributes:
* <ul>
* <li>signer - A Distinguished Name chain used to sign the exporting
* bundle. Wildcards in a DN are not matched according to the filter string
* rules, but according to the rules defined for a DN chain.</li>
* <li>location - The location of the exporting bundle.</li>
* <li>id - The bundle ID of the exporting bundle.</li>
* <li>name - The symbolic name of the exporting bundle.</li>
* <li>coordination.name - The name of the requested coordination.</li>
* </ul>
* @param filter A filter expression. Filter attribute names are processed in a case sensitive manner. A special value of \{@code \\"*\\"\} can be used to match all coordinations.
* @param actions \{@code admin\}, \{@code initiate\} or \{@code participate\} (canonical order).
* @throws IllegalArgumentException If the filter has an invalid syntax.
*/

class CoordinationPermission {
  CoordinationPermission(String filter, String actions) {
    this(parseFilter(filter), parseActions(actions));
  }

  /**
   * Creates a new requested \{@code CoordinationPermission\} object to be used by the code that must perform \{@code checkPermission\}.
   * \{@code CoordinationPermission\} objects created with this constructor cannot be added to an \{@code CoordinationPermission\} permission collection.
   *
   * @param coordinationName The name of the requested Coordination.
   * @param coordinationBundle The bundle which \{link Coordination\#getBundle\} created the requested Coordination.
   * @param actions \{@code admin\}, \{@code initiate\} or \{@code participate\} (canonical order).
   */
  public CoordinationPermission(String coordinationName, Bundle coordinationBundle, String actions) {
    super(coordinationName);
    setTransients(null, parseActions(actions));
    this.bundle = coordinationBundle;
    if (coordinationName == null) {
      throw new NullPointerException("coordinationName must not be null");
    }
    if (coordinationBundle == null) {
      throw new NullPointerException("coordinationBundle must not be null");
    }
  }

  /**
   * Package private constructor used by CoordinationPermissionCollection.
   *
   * @param filter name filter
   * @param mask action mask
   */
  CoordinationPermission(Filter filter, int mask) {
    super((filter == null) ? \\"*\\" : filter.toString());
  }
}
setTransients(filter, mask);
this.bundle = null;
}

/**
 * Called by constructors and when deserialized.
 *
 * @param filter Permission's filter or [code null] for wildcard.
 * @param mask action mask
 */
private void setTransients(Filter filter, int mask) {
    this.filter = filter;
    if ((mask == ACTION_NONE) || ((mask & ACTION_ALL) != mask)) {
        throw new IllegalArgumentException("invalid action string");
    }
    this.action_mask = mask;
}

/**
 * Parse action string into action mask.
 *
 * @param actions Action string.
 * @return action mask.
 */
private static int parseActions(String actions) {
    boolean seencomma = false;
    int mask = ACTION_NONE;
    if (actions == null) {
        return mask;
    }
    char[] a = actions.toCharArray();
    int i = a.length - 1;
    if (i < 0)
        return mask;
    while (i != -1) {
        char c;

        // skip whitespace
        while ((i != -1) && ((c = a[i]) == ' ' || c == '' || c == '
' || c == '' || c == '	'))
            i--;

        // check for the known strings
        int matchlen;
if (i >= 4 && (a[i - 4] == 'a' || a[i - 4] == 'A')
&& (a[i - 3] == 'd' || a[i - 3] == 'D')
&& (a[i - 2] == 'm' || a[i - 2] == 'M')
&& (a[i - 1] == 'i' || a[i - 1] == 'I')
&& (a[i] == 'n' || a[i] == 'N')) {
matchlen = 5;
mask |= ACTION_ADMIN;
}
else
if (i >= 7 && (a[i - 7] == 'i' || a[i - 7] == 'I')
&& (a[i - 6] == 'n' || a[i - 6] == 'N')
&& (a[i - 5] == 'i' || a[i - 5] == 'I')
&& (a[i - 4] == 't' || a[i - 4] == 'T')
&& (a[i - 3] == 'i' || a[i - 3] == 'I')
&& (a[i - 2] == 'a' || a[i - 2] == 'A')
&& (a[i - 1] == 't' || a[i - 1] == 'T')
&& (a[i] == 'e' || a[i] == 'E')) {
matchlen = 8;
mask |= ACTION_INITIATE;
}
else {
if (i >= 10 && (a[i - 10] == 'p' || a[i - 10] == 'P')
&& (a[i - 9] == 'a' || a[i - 9] == 'A')
&& (a[i - 8] == 'r' || a[i - 8] == 'R')
&& (a[i - 7] == 't' || a[i - 7] == 'T')
&& (a[i - 6] == 'i' || a[i - 6] == 'I')
&& (a[i - 5] == 'c' || a[i - 5] == 'C')
&& (a[i - 4] == 'i' || a[i - 4] == 'I')
&& (a[i - 3] == 'p' || a[i - 3] == 'P')
&& (a[i - 2] == 'a' || a[i - 2] == 'A')
&& (a[i - 1] == 't' || a[i - 1] == 'T')
&& (a[i] == 'e' || a[i] == 'E')) {
matchlen = 11;
mask |= ACTION_PARTICIPATE;
}
else {
// parse error
throw new IllegalArgumentException("invalid permission: " + actions);
}
}

// make sure we didn't just match the tail of a word
// like "ackbarfadmin". Also, skip to the comma.
seencomma = false;
while (i >= matchlen && !seencomma) {
switch (a[i - matchlen]) {
case ',' :
seencomma = true;
/* FALLTHROUGH */
case ' ' :
case '\r' :
case '\n' :
case '\f' :
case '\t' :
break;
default :
throw new IllegalArgumentException("invalid permission: " + actions);
}
i--;
}
// point i at the location of the comma minus one (or -1).
i -= matchlen;
}
if (seencomma) {
throw new IllegalArgumentException("invalid permission: " + actions);
}
return mask;
}
/**
* Parse filter string into a Filter object.
*
* @param filterString The filter string to parse.
* @return a Filter for this bundle.
* @throws IllegalArgumentException If the filter syntax is invalid.
*/
private static Filter parseFilter(String filterString) {
filterString = filterString.trim();
if (filterString.equals("*")) {
return null;
}
try {
return FrameworkUtil.createFilter(filterString);
} catch (InvalidSyntaxException e) {
IllegalArgumentException iae = new IllegalArgumentException("invalid filter");
iae.initCause(e);
throw iae;
}
}

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/**
* Determines if the specified permission is implied by this object.
*
* <p>
* This method checks that the filter of the target is implied by the
* coordination name of this object. The list of
* [CoordinationPermission] actions must either match or allow for the
* list of the target object to imply the target
* [CoordinationPermission] action.
* <p>
*
* @param p The requested permission.
* @return [true] if the specified permission is implied by this
*          object; [false] otherwise.
*/
public boolean implies(Permission p) {
  if (!(p instanceof CoordinationPermission)) {
    return false;
  }
  CoordinationPermission requested = (CoordinationPermission) p;
  if (bundle != null) {
    return false;
  }
  // if requested permission has a filter, then it is an invalid argument
  if (requested.filter != null) {
    return false;
  }
  return implies0(requested, ACTION_NONE);
}

/**
* Internal implies method. Used by the implies and the permission
* collection implies methods.
*
* @param requested The requested CoordinationPermission which has already
*        be validated as a proper argument. The requested
*        CoordinationPermission must not have a filter expression.
* @param effective The effective actions with which to start.
* @return [true] if the specified permission is implied by this
*         object; [false] otherwise.
*/
boolean implies0(CoordinationPermission requested, int effective) {
  /* check actions first - much faster */
effective |= action_mask;
  final int desired = requested.action_mask;
  if ((effective & desired) != desired) {
    return false;
  }
/* Get filter */
Filter f = filter;
if (f == null) {
  // it's "*"
  return true;
}
return f.matches(requested.getProperties());

/**
 * Returns the canonical string representation of the
 * {CoordinationPermission} actions.
 *
 * Always returns present {CoordinationPermission} actions in the
 * following order: {admin}, {initiate}, {participate}.
 *
 * @return Canonical string representation of the
 *         {CoordinationPermission} actions.
 */
public String getActions() {
  String result = actions;
  if (result == null) {
    StringBuffer sb = new StringBuffer();
    boolean comma = false;
    int mask = action_mask;
    if ((mask & ACTION_ADMIN) == ACTION_ADMIN) {
      sb.append(ADMIN);
      comma = true;
    }
    if ((mask & ACTION_INITIATE) == ACTION_INITIATE) {
      if (comma)
        sb.append(',');
      sb.append(INITIATE);
      comma = true;
    }
    if ((mask & ACTION_PARTICIPATE) == ACTION_PARTICIPATE) {
      if (comma)
        sb.append(',');
      sb.append(PARTICIPATE);
      comma = true;
    }
    actions = result = sb.toString();
  }
}
return result;
}

/**
 * Returns a new {@code PermissionCollection} object suitable for storing
 * [{@code CoordinationPermission}] objects.
 * *
 * @return A new {@code PermissionCollection} object.
 */
public PermissionCollection newPermissionCollection() {
    return new CoordinationPermissionCollection();
}

/**
 * Determines the equality of two {@code CoordinationPermission} objects.
 * *
 * This method checks that specified permission has the same name and
 * [{@code CoordinationPermission}] actions as this
 * [{@code CoordinationPermission}] object.
 * *
 * @param obj The object to test for equality with this
 * [{@code CoordinationPermission}] object.
 * @return {@code true} if {@code obj} is a {@code CoordinationPermission},
 *         and has the same name and actions as this
 *         {@code CoordinationPermission} object; {@code false} otherwise.
 */
public boolean equals(Object obj) {
    if (obj == this) {
        return true;
    }
    if (!(obj instanceof CoordinationPermission)) {
        return false;
    }
    CoordinationPermission cp = (CoordinationPermission) obj;
    return (action_mask == cp.action_mask) && getName().equals(cp.getName()) && ((bundle == cp.bundle) ||
    ((bundle != null) && bundle.equals(cp.bundle)));
}

/**
 * Returns the hash code value for this object.
 * *
 * @return A hash code value for this object.
 */
public int hashCode() {
    int h = 31 * 17 + getName().hashCode();
    return h;
}
h = 31 * h + getActions().hashCode();
if (bundle != null) {
    h = 31 * h + bundle.hashCode();
}
return h;

/**
   * WriteObject is called to save the state of this permission object to a
   * stream. The actions are serialized, and the superclass takes care of the
   * name.
   */
private synchronized void writeObject(java.io.ObjectOutputStream s) throws IOException {
    if (bundle != null) {
        throw new NotSerializableException("cannot serialize");
    }
    // Write out the actions. The superclass takes care of the name
    // call getActions to make sure actions field is initialized
    if (actions == null)
        getActions();
    s.defaultWriteObject();
}

/**
   * readObject is called to restore the state of this permission from a
   * stream.
   */
private synchronized void readObject(java.io.ObjectInputStream s) throws IOException, ClassNotFoundException {
    // Read in the action, then initialize the rest
    s.defaultReadObject();
    setTransients(parseFilter(getName()), parseActions(actions));
}

/**
   * Called by [ @link CoordinationPermission#implies(Permission) ]. This method
   * is only called on a requested permission which cannot have a filter set.
   *
   * @return a map of properties for this permission.
   */
private Map<String, Object> getProperties() {
    Map<String, Object> result = properties;
    if (result != null) {
        return result;
    }
    final Map<String, Object> map = new HashMap<String, Object>(5);
    map.put("coordination.name", getName());
    if (bundle != null) {
        AccessController.doPrivileged(new PrivilegedAction<Object>() {
public Object run() {
    map.put("id", new Long(bundle.getBundleId()));
    map.put("location", bundle.getLocation());
    String name = bundle.getSymbolicName();
    if (name != null) {
        map.put("name", name);
    }
    SignerProperty signer = new SignerProperty(bundle);
    if (signer.isBundleSigned()) {
        map.put("signer", signer);
    }
    return null;
}
}
}
return properties = map;
}

/**
 * Package private class used for filter matching on signer key during filter
 * expression evaluation in the permission implies method.
 * *
 * @Immutable
 */
final class SignerProperty {
    private final Bundle bundle;
    private final String pattern;

    /**
     * String constructor used by the filter matching algorithm to construct a
     * SignerProperty from the attribute value in a filter expression.
     *
     * @param pattern Attribute value in the filter expression.
     */
    public SignerProperty(String pattern) {
        this.pattern = pattern;
        this.bundle = null;
    }

    /**
     * Used by the permission implies method to build the properties for a
     * filter match.
     *
     * @param bundle The bundle whose signers are to be matched.
     */
    SignerProperty(Bundle bundle) {
        this.bundle = bundle;
    }
this.pattern = null;
}

/**
 * Used by the filter matching algorithm. This methods does NOT satisfy the
 * normal equals contract. Since the class is only used in filter expression
 * evaluations, it only needs to support comparing an instance created with
 * a Bundle to an instance created with a pattern string from the filter
 * expression.
 *
 * @param o SignerProperty to compare against.
 * @return true if the DN name chain matches the pattern.
 */
public boolean equals(Object o) {
    if (! (o instanceof SignerProperty))
        return false;
    SignerProperty other = (SignerProperty) o;
    Bundle matchBundle = bundle != null ? bundle : other.bundle;
    String matchPattern = bundle != null ? other.pattern : pattern;
    Map<X509Certificate, List<X509Certificate>> signers =
    matchBundle.getSignerCertificates(Bundle.SIGNERS_TRUSTED);
    for (List<X509Certificate> signerCerts : signers.values()) {
        List<String> dnChain = new ArrayList<String>(signerCerts.size());
        for (X509Certificate signerCert : signerCerts) {
            dnChain.add(signerCert.getSubjectDN().getName());
        }
        try {
            if (FrameworkUtil.matchDistinguishedNameChain(matchPattern, dnChain)) {
                return true;
            }
        } catch (IllegalArgumentException e) {
            continue; // bad pattern
        }
    }
    return false;
}

/**
 * Since the equals method does not obey the general equals contract, this
 * method cannot generate hash codes which obey the equals contract.
 */
public int hashCode() {
    return 31;
}

/**
 * Check if the bundle is signed.
 */

boolean isBundleSigned() {
    if (bundle == null) {
        return false;
    }
    Map<X509Certificate, List<X509Certificate>> signers =
    bundle.getSignerCertificates(Bundle.SIGNERS_TRUSTED);
    return !signers.isEmpty();
}

/**
 * Stores a set of CoordinationPermission permissions.
 * @see java.security.Permission
 * @see java.security.Permissions
 * @see java.security.PermissionCollection
 */

final class CoordinationPermissionCollection extends PermissionCollection {
    static final long serialVersionUID = -3350758995234427603L;
    /**
     * Collection of permissions.
     *
     * @serial
     * @GuardedBy this
     */
    private Map<String, CoordinationPermission> permissions;

    /**
     * Boolean saying if "*" is in the collection.
     *
     * @serial
     * @GuardedBy this
     */
    private boolean all_allowed;

    /**
     * Create an empty CoordinationPermissions object.
     */
    public CoordinationPermissionCollection() {
        permissions = new HashMap<String, CoordinationPermission>();
        all_allowed = false;
    }

    /**
     * Adds a permission to this permission collection.
     */
* @param permission The `{@code CoordinationPermission}` object to add.
* @throws IllegalArgumentException If the specified permission is not a
*     `{@code CoordinationPermission}` instance or was constructed with a
*     Bundle object.
* @throws SecurityException If this
*     `{@code CoordinationPermissionCollection}` object has been marked
*     read-only.
*/
public void add(final Permission permission) {
    if (!(permission instanceof CoordinationPermission)) {
        throw new IllegalArgumentException("invalid permission: " + permission);
    }
    if (isReadOnly()) {
        throw new SecurityException("attempt to add a Permission to a " + "readonly PermissionCollection");
    }
    final CoordinationPermission cp = (CoordinationPermission) permission;
    if (cp.bundle != null) {
        throw new IllegalArgumentException("cannot add to collection: " + cp);
    }
    final String name = cp.getName();
    synchronized (this) {
        Map<String, CoordinationPermission> pc = permissions;
        final CoordinationPermission existing = pc.get(name);
        if (existing != null) {
            final int oldMask = existing.action_mask;
            final int newMask = cp.action_mask;
            if (oldMask != newMask) {
                pc.put(name, new CoordinationPermission(existing.filter, oldMask | newMask));
            } else {
                pc.put(name, cp);
            }
        } else { // all_allowed
            if (!all_allowed) {
                if (name.equals("*")) {
                    all_allowed = true;
                }
            }
        }
    }
}
/**
* Determines if the specified permissions implies the permissions expressed
* in `{@code permission}`.
*
public boolean implies(final Permission permission) {
    if (!(permission instanceof CoordinationPermission)) {
        return false;
    }
    final CoordinationPermission requested = (CoordinationPermission) permission;
    /* if requested permission has a filter, then it is an invalid argument */
    if (requested.filter != null) {
        return false;
    }
    int effective = CoordinationPermission.ACTION_NONE;

    Collection<CoordinationPermission> perms;
    synchronized (this) {
        Map<String, CoordinationPermission> pc = permissions;
        /* short circuit if the "*" Permission was added */
        if (all_allowed) {
            CoordinationPermission cp = pc.get("*");
            if (cp != null) {
                effective |= cp.action_mask;
                final int desired = requested.action_mask;
                if ((effective & desired) == desired) {
                    return true;
                }
            }
        }
        perms = pc.values();
    }
    /* iterate one by one over filteredPermissions */
    for (CoordinationPermission perm : perms) {
        if (perm.implies0(requested, effective)) {
            return true;
        }
    }
    return false;
}

/**
 * Returns an enumeration of all [@code CoordinationPermission] objects in
 * the container.
 */

@return Enumeration of all [@code CoordinationPermission] objects.
public synchronized Enumeration<Permission> elements() {
    List<Permission> all = new ArrayList<Permission>(permissions.values());
    return Collections.enumeration(all);
}

/* serialization logic */
private static final ObjectStreamField[] serialPersistentFields = {
    new ObjectStreamField("permissions", HashMap.class),
    new ObjectStreamField("all_allowed", Boolean.TYPE)
};

private synchronized void writeObject(ObjectOutputStream out) throws IOException {
    ObjectOutputStream.PutField pfields = out.putFields();
    pfields.put("permissions", permissions);
    pfields.put("all_allowed", all_allowed);
    out.writeFields();
}

private synchronized void readObject(java.io.ObjectInputStream in) throws IOException, ClassNotFoundException {
    ObjectInputStream.GetField gfields = in.readFields();
    permissions = (HashMap<String, CoordinationPermission>) gfields.get("permissions", null);
    all_allowed = gfields.get("all_allowed", false);
}

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 */

package org.osgi.service.deploymentadmin.spi;

import java.lang.reflect.Constructor;
import java.lang.reflect.InvocationTargetException;
import java.security.AccessController;
import java.security.Permission;
import java.security.PrivilegedAction;
import org.osgi.framework.Bundle;
import org.osgi.service.deploymentadmin.DeploymentAdminPermission;

/**
 * The {@code DeploymentCustomizerPermission} permission gives the right to
 * Resource Processors to access a bundle's (residing in a Deployment Package)
 * private area. The bundle and the Resource Processor (customizer) have to be
 * in the same Deployment Package.
 * <p>
 * The Resource Processor that has this permission is allowed to access the
 * bundle's private area by calling the
 * [DeploymentSession#getDataFile(Bundle)] method during the session (see
 * [DeploymentSession]). After the session ends the FilePermissions are
 * withdrawn. The Resource Processor will have [FilePermission] with
 * "read", "write" and "delete" actions for the returned [java.io.File]
 * that represents the the base directory of the persistent storage area and for
 * its subdirectories.
 * <p>
 * The actions string is converted to lowercase before processing.
 */
public class DeploymentCustomizerPermission extends Permission {

/**
 *
*/
private static final long serialVersionUID = 1L;

/**
 *
*/
public static final String PRIVATEAREA = "privatearea";

private static final String delegateProperty = "org.osgi.vendor.deploymentadmin";
private static final Constructor constructor;
static {
    constructor = (Constructor) AccessController.doPrivileged(new PrivilegedAction() {
        public Object run() {
            String pckg = System.getProperty(delegateProperty);
            if (null == pckg)
                throw new RuntimeException("Property '" + delegateProperty + "' is not set");
            try {
                Class c = Class.forName(pckg + ".DeploymentCustomizerPermission");
                return c.getConstructor(new Class[] {String.class, String.class});
            } catch (Exception e) {
                throw new RuntimeException(e);
            }
        }
    });
}
/**
 * Creates a new {@code DeploymentCustomizerPermission} object for the given
 * @code name and @code action.
 * <p>
 * The name parameter is a filter string. This filter has the same syntax as
 * an OSGi filter but only the "name" attribute is allowed. The value of the
 * attribute is a Bundle Symbolic Name that represents a bundle. The only
 * allowed action is the "privatearea" action. E.g.
 * <pre>
 * Permission perm = new DeploymentCustomizerPermission(
 *     \"(name=com.acme.bundle)\", \"privatearea\");
 * </pre>
 * The Resource Processor that has this permission is allowed to access the
 * bundle's private area by calling the
 * @link DeploymentSession#getDataFile(Bundle) method. The Resource
 * Processor will have @code FilePermission with "read", "write" and
 * "delete" actions for the returned @link java.io.File and its
 * subdirectories during the deployment session.
 * @param name Bundle Symbolic Name of the target bundle, must not be
 * @code null.
 * @param actions action string (only the "privatearea" or "*" action is
 * valid; "*" means all the possible actions), must not be
 * @code null.
 * @throws IllegalArgumentException if the filter is invalid, the list of
 * actions contains unknown operations or one of the parameters is
 * @code null
 */
public DeploymentCustomizerPermission(String name, String actions) {
    super(name);
    try {
        try {
            delegate = (Permission) constructor.newInstance(new Object[] {name, actions});
        } catch (InvocationTargetException e) {
            throw e.getTargetException();
        }
    } catch (Error e) {
        throw e;
    } catch (RuntimeException e) {
        throw e;
    }
}
/**
 * Checks two DeploymentCustomizerPermission objects for equality. Two
 * permission objects are equal if:
 * <p>
 * <ul>
 * <li>their target filters are equal (semantically and not character by
 * character) and</li>
 * <li>their actions are the same</li>
 * </ul>
 * <p>
 * @param obj the reference object with which to compare.
 * @return true if the two objects are equal.
 * @see java.lang.Object#equals(java.lang.Object)
 */
public boolean equals(Object obj) {
    if (obj == this)
        return true;
    if (!(obj instanceof DeploymentCustomizerPermission))
        return false;
    DeploymentCustomizerPermission dcp = (DeploymentCustomizerPermission) obj;
    return delegate.equals(dcp.delegate);
}

/**
 * Returns hash code for this permission object.
 * @return Hash code for this permission object.
 * @see java.lang.Object#hashCode()
 */
public int hashCode() {
    return delegate.hashCode();
}

/**
 * Returns the String representation of the action list.
 * @return Action list of this permission instance. It is always
 * "privatearea".
 * @see java.security.Permission#getActions()
 */
public String getActions() {
    return delegate.getActions();
}
/**
 * Checks if this DeploymentCustomizerPermission would imply the parameter
 * permission. This permission implies another
 * DeploymentCustomizerPermission permission if:
 * *
 * <ul>
 * <li>both of them has the "privatearea" action (other actions are not
 * allowed) and</li>
 * <li>their filters (only name attribute is allowed in the filters) match
 * similarly to { @link DeploymentAdminPermission}. </li>
 * </ul>
 * *
 * The value of the name attribute means Bundle Symbolic Name and not
 * Deployment Package Symbolic Name here!
 * *
 * @param permission Permission to check.
 * @return true if this DeploymentCustomizerPermission object implies the
 *         specified permission.
 * @see java.security.Permission#implies(java.security.Permission)
 */
public boolean implies(Permission permission) {
    if (!(permission instanceof DeploymentCustomizerPermission))
        return false;
    DeploymentCustomizerPermission dcp = (DeploymentCustomizerPermission) permission;
    return delegate.implies(dcp.delegate);
}

/**
 * Returns a new PermissionCollection object for storing
 * DeploymentCustomizerPermission objects.
 * *
 * @return The new PermissionCollection.
 * @see java.security.Permission#newPermissionCollection()
 */
public PermissionCollection newPermissionCollection() {
    return delegate.newPermissionCollection();
}

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*/

package org.osgi.service.deploymentadmin;

import java.io.InputStream;
import java.lang.reflect.Constructor;
import java.lang.reflect.InvocationTargetException;
import java.security.AccessController;
import java.security.Permission;
import java.security.PermissionCollection;
import java.security.PrivilegedAction;
import org.osgi.framework.Bundle;

/**
 * DeploymentAdminPermission controls access to the Deployment Admin service.
 * <p>
 * The permission uses a filter string formatted similarly to the
 * {@link org.osgi.framework.Filter}. The filter determines the target of the
 * permission. The {@code DeploymentAdminPermission} uses the {@code name} and
 * the {@code signer} filter attributes only. The value of the {@code signer}
 * attribute is matched against the signer chain (represented with its semicolon
 * separated Distinguished Name chain) of the Deployment Package, and the value
 * of the {@code name} attribute is matched against the value of the
 * "DeploymentPackage-Name" manifest header of the Deployment Package. Example:
 * <ul>
 * <li>(signer=cn = Bugs Bunny, o = ACME, c = US)</li>
 * <li>(name=org.osgi.ExampleApp)</li>
 * </ul>
 * Wildcards also can be used:
 * <pre>
 * (signer=cn=*,o=ACME,c=*)
 * </pre>
 */
* "cn" and "c" may have an arbitrary value
* 
* <pre>
* (signer=*, o=ACME, c=US)
* </pre>
* 
* Only the value of "o" and "c" are significant
* 
* <pre>
* (signer=*/ ; ou=S & V, o=Tweety Inc., c=US)
* </pre>
* 
* The first element of the certificate chain is not important, only the second
* (the Distinguished Name of the root certificate)
* 
* <pre>
* (signer=- ; *, o=Tweety Inc., c=US)
* </pre>
* 
* The same as the previous but '-' represents zero or more certificates,
* whereas the asterisk only represents a single certificate
* 
* <pre>
* (name=*)
* </pre>
* 
* The name of the Deployment Package doesn't matter
* 
* <pre>
* (name=org.osgi.*)
* </pre>
* 
* The name has to begin with "org.osgi."
* 
* <p>
* The following actions are allowed:
* <p>
* 
* <b>list</b>
* <p>
* A holder of this permission can access the inventory information of the
* deployment packages selected by the &lt;filter&gt; string. The filter selects
* the deployment packages on which the holder of the permission can acquire
* detailed inventory information. See
* [
* @link DeploymentAdmin#getDeploymentPackage(Bundle)
* ],
* [
* @link DeploymentAdmin#getDeploymentPackage(String)
* ] and
* [
* @link DeploymentAdmin#listDeploymentPackages
* ].
* <p>
A holder of this permission can install/update deployment packages if the deployment package satisfies the `<filter>` string. See [@link DeploymentAdmin#installDeploymentPackage].

A holder of this permission can uninstall deployment packages if the deployment package satisfies the `<filter>` string. See [@link DeploymentPackage#uninstall()].

A holder of this permission can forcefully uninstall deployment packages if the deployment package satisfies the `<filter>` string. See [@link DeploymentPackage#uninstallForced()].

A holder of this permission can cancel an active deployment action. This action being canceled could correspond to the install, update or uninstall of a deployment package that satisfies the `<filter>` string. See [@link DeploymentAdmin#cancel()]

A holder of this permission is able to retrieve metadata information about a Deployment Package (e.g. is able to ask its manifest headers). See [@link org.osgi.service.deploymentadmin.DeploymentPackage#getBundle(String)], [@link org.osgi.service.deploymentadmin.DeploymentPackage#getBundleInfos()], [@link org.osgi.service.deploymentadmin.DeploymentPackage#getHeader(String)], [@link org.osgi.service.deploymentadmin.DeploymentPackage#getResourceHeader(String, String)], [@link org.osgi.service.deploymentadmin.DeploymentPackage#getResourceProcessor(String)], [@link org.osgi.service.deploymentadmin.DeploymentPackage#getResources()]

The actions string is converted to lower case before processing.
public final class DeploymentAdminPermission extends Permission {

/**
 * Constant String to the "install" action.
 * @see DeploymentAdmin#installDeploymentPackage(InputStream)
 */
public static final String INSTALL = "install";

/**
 * Constant String to the "list" action.
 * @see DeploymentAdmin#listDeploymentPackages()
 * @see DeploymentAdmin#getDeploymentPackage(String)
 * @see DeploymentAdmin#getDeploymentPackage(Bundle)
 */
public static final String LIST = "list";

/**
 * Constant String to the "uninstall" action.
 * @see DeploymentPackage#uninstall()
 */
public static final String UNINSTALL = "uninstall";

/**
 * Constant String to the "uninstall_forced" action.
 * @see DeploymentPackage#uninstallForced()
 */
public static final String UNINSTALL_FORCED = "uninstall_forced";

/**
 * Constant String to the "cancel" action.
 * @see DeploymentAdmin#cancel()
 */
public static final String CANCEL = "cancel";

/**
 * Constant String to the "metadata" action.
 * <p>
 * @see org.osgi.service.deploymentadmin.DeploymentPackage#getBundle(String)
 * @see org.osgi.service.deploymentadmin.DeploymentPackage#getBundleInfos()
 * @see org.osgi.service.deploymentadmin.DeploymentPackage#getHeader(String,
 *      String)
 * @see org.osgi.service.deploymentadmin.DeploymentPackage#getResourceHeader(String,
 *      String)
 * @see org.osgi.service.deploymentadmin.DeploymentPackage#getResourceProcessor(String)
 * @see org.osgi.service.deploymentadmin.DeploymentPackage#getResources()
 */

public static final String METADATA = "metadata";

private static final String delegateProperty = "org.osgi.vendor.deploymentadmin";
private static final Constructor constructor;
private final Permission delegate;

static {
    constructor = (Constructor) AccessController.doPrivileged(new PrivilegedAction() {
        public Object run() {
            String pckg = System.getProperty(delegateProperty);
            if (null == pckg)
                throw new RuntimeException("Property "+ delegateProperty + " is not set");
            try {
                Class c = Class.forName(pckg + ".DeploymentAdminPermission");
                return c.getConstructor(new Class[]{String.class, String.class});
            } catch (Exception e) {
                throw new RuntimeException(e);
            }
        }
    });

    /**
     * Creates a new [@code DeploymentAdminPermission] object for the given
     * [@code name] and [@code action].
     * <p>
     * The [@code name] parameter identifies the target deployment package the
     * permission relates to. The [@code actions] parameter contains the comma
     * separated list of allowed actions.
     * <p>
     * @param name filter string, must not be null.
     * @param actions action string, must not be null. "*" means all the
     *    possible actions.
     * @throws IllegalArgumentException if the filter is invalid, the list of
     *    actions contains unknown operations or one of the parameters is
     */
public DeploymentAdminPermission(String name, String actions) {
    super(name);
    try {
        delegate = (Permission) constructor.newInstance(new Object[] {name, actions});
    } catch (InvocationTargetException e) {
        throw e.getTargetException();
    } catch (Error e) {
        throw e;
    } catch (RuntimeException e) {
        throw e;
    } catch (Throwable e) {
        throw new RuntimeException(e);
    }
}

/**
 * Checks two DeploymentAdminPermission objects for equality. Two permission
 * objects are equal if:
 * <p>
 * <ul>
 * <li>their target filters are semantically equal and</li>
 * <li>their actions are the same</li>
 * </ul>
 * @param obj The reference object with which to compare.
 * @return true if the two objects are equal.
 * @see java.lang.Object#equals(java.lang.Object)
 */
public boolean equals(Object obj) {
    if (obj == this)
        return true;
    if (!(obj instanceof DeploymentAdminPermission))
        return false;
    DeploymentAdminPermission dap = (DeploymentAdminPermission) obj;
    return delegate.equals(dap.delegate);
}

/**
 * Returns hash code for this permission object.
 * @return Hash code for this permission object.
 * @see java.lang.Object#hashCode()
 */
public int hashCode() {
    return delegate.hashCode();
}

/**
 * Returns the String representation of the action list.
 * @param <p>
 * The method always gives back the actions in the following (alphabetical)
 * order:
 * @code cancel, install, list, metadata, uninstall, uninstall_forced
 * @return Action list of this permission instance. This is a
 * comma-separated list that reflects the action parameter of the
 * constructor.
 * @see java.security.Permission#getActions()
 */
public String getActions() {
    return delegate.getActions();
}

/**
 * Checks if this DeploymentAdminPermission would imply the parameter
 * permission.
 * @param <p>
 * Precondition of the implication is that the action set of this permission
 * is the superset of the action set of the other permission. Further rules
 * of implication are determined by the [ @link org.osgi.framework.Filter ]
 * rules and the "OSGi Service Platform, Core Specification Release 4,
 * Chapter Certificate Matching".
 * @param <p>
 * The allowed attributes are: [ @code name ] (the symbolic name of the
 * deployment package) and [ @code signer ] (the signer of the deployment
 * package). In both cases wildcards can be used.
 * @param <p>
 * Examples:
 * @pre
 * 1. DeploymentAdminPermission("(name=org.osgi.exampleApp)", "list")
 * 2. DeploymentAdminPermission("(name=org.osgi.exampleApp)", "list, install")
 * 3. DeploymentAdminPermission("(name=org.osgi.*)", "list")
 * 4. DeploymentAdminPermission("(signer=*, o=ACME, c=US)", "list")
 * 5. DeploymentAdminPermission("(signer=cn=Bugs Bunny, o=ACME, c=US)", "list")
 * </pre>
public boolean implies(Permission permission) {
  if (!(permission instanceof DeploymentAdminPermission))
    return false;

  DeploymentAdminPermission dap = (DeploymentAdminPermission) permission;

  return delegate.implies(dap.delegate);
}

/**
 * Returns a new PermissionCollection object for storing
 * DeploymentAdminPermission objects.
 *
 * @return The new PermissionCollection.
 * @see java.security.Permission#newPermissionCollection()
 */
public PermissionCollection newPermissionCollection() {
  return delegate.newPermissionCollection();
}

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 */
package org.osgi.service.dmt.security;

import java.security.Permission;
import java.security.PermissionCollection;
import java.util.ArrayList;
import java.util.Collections;
import java.util.Enumeration;
import java.util.Iterator;

/**
 * Indicates the callers authority to send alerts to management servers,
 * identified by their principal names.
 * <p>
 * {@code AlertPermission} has a target string which controls the principal
 * names where alerts can be sent. A wildcard is allowed at the end of the
 * target string, to allow sending alerts to any principal with a name matching
 * the given prefix. The "*" target means that alerts can be sent to
 * any destination.
 * *
 * @author $Id: c6a01d2c5e33287b1fd6bf40fedca908e9ddd072 $
 */
public class AlertPermission extends Permission {
private static final long serialVersionUID = -3206463101788245739L;

// specifies whether the target string had a wildcard at the end
private final boolean isPrefix;
// the target string without the wildcard (if there was one)
private final String serverId;

/**
 * Creates a new {@code AlertPermission} object with its name set to the
 * target string. Name must be non-null and non-empty.
 * *
 * @param target the name of a principal, can end with "*" to match
 * any principal identifier with the given prefix
 * @throws NullPointerException if target is null
 * @throws IllegalArgumentException if target is empty
 */
public AlertPermission(String target) {
    super(target);

    if (target == null)
        throw new NullPointerException("'target' parameter must not be null.");

    if (target.equals(""))

throw new IllegalArgumentException("'target' parameter must not be empty.");
isPrefix = target.endsWith("*");
if (isPrefix)
serverId = target.substring(0, target.length() - 1);
else
serverId = target;
}
/**
* Creates a new {@code AlertPermission} object using the 'canonical' two
* argument constructor. In this version this class does not define any
* actions, the second argument of this constructor must be "*" so that this
* class can later be extended in a backward compatible way.
*
* @param target the name of the server, can end with {@code *} to match any
*
server identifier with the given prefix
* @param actions no actions defined, must be "*" for forward compatibility
* @throws NullPointerException if {@code name} or {@code actions} is
*
{@code null}
* @throws IllegalArgumentException if {@code name} is empty or
*
{@code actions} is not "*"
*/
public AlertPermission(String target, String actions) {
this(target);
if (actions == null)
throw new NullPointerException("'actions' parameter must not be null.");
if (!actions.equals("*"))
throw new IllegalArgumentException("'actions' parameter must be \"*\".");
}
/**
* Checks whether the given object is equal to this AlertPermission
* instance. Two AlertPermission instances are equal if they have the same
* target string.
*
* @param obj the object to compare to this AlertPermission instance
* @return {@code true} if the parameter represents the same permissions as
*
this instance
*/
public boolean equals(Object obj) {
if (obj == this)
return true;
if (!(obj instanceof AlertPermission))
return false;

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AlertPermission other = (AlertPermission) obj;

return isPrefix == other.isPrefix && serverId.equals(other.serverId);
}

/**
 * Returns the action list (always {@code *} in the current version).
 * @return the action string &quot;*";
 */
public String getActions() {
    return "*";
}

/**
 * Returns the hash code for this permission object. If two AlertPermission
 * objects are equal according to the {@link #equals(Object)} method, then
 * calling this method on each of the two AlertPermission objects must
 * produce the same integer result.
 * @return hash code for this permission object
 */
public int hashCode() {
    return new Boolean(isPrefix).hashCode() ^ serverId.hashCode();
}

/**
 * Checks if this AlertPermission object implies the specified permission.
 * Another AlertPermission instance is implied by this permission either if
 * the target strings are identical, or if this target can be made identical
 * to the other target by replacing a trailing &quot;*" with any
 * string.
 * @param p the permission to check for implication
 * @return true if this AlertPermission instance implies the specified
 *         permission
 */
public boolean implies(Permission p) {
    if (!(p instanceof AlertPermission))
        return false;
    AlertPermission other = (AlertPermission) p;

    return impliesServer(other);
}

/**
* Returns a new PermissionCollection object for storing AlertPermission objects.
* @return the new PermissionCollection
*/
public PermissionCollection newPermissionCollection() {
    return new DmtAlertPermissionCollection();
}

/*
* Returns true if the server name parameter of the given AlertPermission is implied by the server name of this permission, i.e. this server name is a prefix of the other one but ends with a *, or the two server names are equal.
*/
boolean impliesServer(AlertPermission p) {
    return isPrefix ? p.serverId.startsWith(serverId) : !p.isPrefix && p.serverId.equals(serverId);
}

/**
* Represents a homogeneous collection of AlertPermission objects.
*/
final class DmtAlertPermissionCollection extends PermissionCollection {
    private static final long serialVersionUID = 2288462124510043429L;
    private ArrayList perms;

    /**
     * Create an empty DmtAlertPermissionCollection object.
     */
    public DmtAlertPermissionCollection() {
        perms = new ArrayList();
    }

    /**
     * Adds a permission to the DmtAlertPermissionCollection.
     * @param permission the Permission object to add
     * @exception IllegalArgumentException if the permission is not a AlertPermission
     * @exception SecurityException if this DmtAlertPermissionCollection object has been marked readonly
     */
    public void add(Permission permission) {
        if (!(permission instanceof AlertPermission))
            throw new IllegalArgumentException("Cannot add permission, invalid permission type: "+ permission);
        if (isReadOnly())
            throw new SecurityException("Cannot add permission, DmtAlertPermissionCollection object is readonly");
        perms.add(permission);
    }
}
throw new SecurityException("Cannot add permission, collection is marked read-only.");

// only add new permission if it is not already implied by the
// permissions in the collection
if (!implies(permission)) {

// remove all permissions that are implied by the new one
Iterator i = perms.iterator();
while (i.hasNext())
if (permission.implies((AlertPermission) i.next()))
i.remove();

// no need to synchronize because all adds are done sequentially
// before any implies() calls
perms.add(permission);
}

/**
 * Check whether this set of permissions implies the permission specified in
 * the parameter.
 *
 * @param permission the Permission object to compare
 * @return true if the parameter permission is a proper subset of the
 *         permissions in the collection, false otherwise
 */
public boolean implies(Permission permission) {
    if (!(permission instanceof AlertPermission))
        return false;
    AlertPermission other = (AlertPermission) permission;
    Iterator i = perms.iterator();
    while (i.hasNext())
        if (((AlertPermission) i.next()).impliesServer(other))
            return true;
    return false;
}

/**
 * Returns an enumeration of all the AlertPermission objects in the
 * container. The returned value cannot be [code null].
 *
 * @return an enumeration of all the AlertPermission objects
 */
public Enumeration elements() {
    return false;
}

/*
 * Converts Iterator into Enumeration
 */
return Collections.enumeration(perms);
}
}
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* limitations under the License.
*/
package org.osgi.service.dmt.security;

import java.security.Permission;
import java.security.PermissionCollection;
import java.util.ArrayList;
import java.util.Collections;
import java.util.Enumeration;
import java.util.Iterator;
import java.util.StringTokenizer;
import org.osgi.service.dmt.Acl;
import org.osgi.service.dmt.Uri;

/**
 * Controls access to management objects in the Device Management Tree (DMT). It
 * is intended to control local access to the DMT. DmtPermission target string
 * identifies the management object URI and the action field lists the OMA DM
 * commands that are permitted on the management object. Example:
 * 
 * <pre>
 * DmtPermission(./OSGi/bundles, Add,Replace,Get);
 * </pre>
 * 
 * This means that owner of this permission can execute Add, Replace and Get
 * commands on the ./OSGi/bundles management object. It is possible to use
 * wildcards in both the target and the actions field. Wildcard in the target
 * field means that the owner of the permission can access children nodes of the
 * target node. Example:
 * 
 * <pre>
* DmtPermission("/OSGi/bundles/*", "Get");
* </pre>
*
* This means that owner of this permission has Get access on every child node
* of /OSGi/bundles. The asterix does not necessarily have to follow a '/'
* character. For example the {code /OSGi/a*} target matches the
* {code /OSGi/applications} subtree.
* 
* If wildcard is present in the actions field, all legal OMA DM commands are
* allowed on the designated nodes(s) by the owner of the permission. Action
* names are interpreted case-insensitively, but the canonical action string
* returned by {link #getActions()} uses the forms defined by the action
* constants.
* 
* @author $Id: 5fc6f3d37c4fac64313f532ad9bd9f07bc48dc39$
* */

public class DmtPermission extends Permission {

private static final long serialVersionUID = -1910969921419407809L;

/**
* Holders of DmtPermission with the Add action present can create new nodes
* in the DMT, that is they are authorized to execute the
* createInteriorNode() and createLeafNode() methods of the DmtSession. This
* action is also required for the copy() command, which needs to perform
* node creation operations (among others).
* */
public static final String ADD = "Add";

/**
* Holders of DmtPermission with the Delete action present can delete nodes
* from the DMT, that is they are authorized to execute the deleteNode()
* method of the DmtSession.
* */
public static final String DELETE = "Delete";

/**
* Holders of DmtPermission with the Exec action present can execute nodes
* in the DMT, that is they are authorized to call the execute() method of
* the DmtSession.
* */
public static final String EXEC = "Exec";

/**
* Holders of DmtPermission with the Get action present can query DMT node
* value or properties, that is they are authorized to execute the
* isLeafNode(), getNodeAcl(), getEffectiveNodeAcl(), getMetaNode(),
* getNodeValue(), getChildNodeNames(), getNodeTitle(), getNodeVersion(),
* getNodeTimeStamp(), getNodeSize() and getNodeType() methods of the
*
* DmtSession. This action is also required for the copy() command, which
* needs to perform node query operations (among others).
*/

public static final String GET = "Get";

/**
* Holders of DmtPermission with the Replace action present can update DMT
* node value or properties, that is they are authorized to execute the
* setNodeAcl(), setNodeTitle(), setNodeValue(), setNodeType() and
* renameNode() methods of the DmtSession. This action is also be required
* for the copy() command if the original node had a title property (which
* must be set in the new node).
*/

public static final String REPLACE = "Replace";

// does this permission have a wildcard at the end?
private final boolean prefixPath;

// the name without the wildcard on the end
private final String path;

// the actions mask
private final int mask;

// the canonical action string (redundant)
private final String actions;

/**
* Creates a new DmtPermission object for the specified DMT URI with the
* specified actions. The given URI can be:
* <ul>
*     <li> {@code "/"}, which matches all valid (see
*         * @link Uri#isValidUri(String)) absolute URIs;</li>
*     <li>the prefix of an absolute URI followed by the { @code "}" character
*         * (for example { @code "/OSGi/L/*" }), which matches all valid absolute URIs
*         * beginning with the given prefix;</li>
*     <li>a valid absolute URI, which matches itself.</li>
* </ul>
* <p>
* Since the { @code "}" character is itself a valid URI character, it can
* appear as the last character of a valid absolute URI. To distinguish this
* case from using { @code "}" as a wildcard, the { @code "}" character at the
* end of the URI must be escaped with the { @code \} charater. For example
* the URI { @code "/a\*" } matches { @code "/a" }, { @code ".aa" },
* { @code "/a*b" } etc. while { @code "/a\*\*" } matches { @code "/a*\*" } only.
* <p>
* The actions string must either be "/" to allow all actions, or it must
* contain a non-empty subset of the valid actions, defined as constants in
* this class.
*
* @param dmtUri URI of the management object (or subtree)
* @param actions OMA DM actions allowed
* @throws NullPointerException if any of the parameters are {@code null}
* @throws IllegalArgumentException if any of the parameters are invalid
*/
public DmtPermission(String dmtUri, String actions) {
super(dmtUri);
mask = getMask(actions);
this.actions = canonicalActions(mask);
if (dmtUri == null)
throw new NullPointerException("'dmtUri' parameter must not be " + "null.");
prefixPath = dmtUri.endsWith("*") && !dmtUri.endsWith("\\*");
if (prefixPath) {
dmtUri = dmtUri.substring(0, dmtUri.length() - 1);
// the single "*" as dmtUri is the only valid non-absolute URI param
if (dmtUri.length() == 0) {
path = "";
return;
}
}
// if URI ends with "/*", remove it before the validity check
if (prefixPath && dmtUri.endsWith("/") && !dmtUri.endsWith("\\/"))
checkUri(dmtUri.substring(0, dmtUri.length() - 1));
else
checkUri(dmtUri);
// canonicalize URI: remove escapes from non-special characters
StringBuffer sb = new StringBuffer(dmtUri);
int i = 0;
while (i < sb.length()) { // length can decrease during the loop!
if (sb.charAt(i) == '\\') {
// there must be a next character after a '\' in a valid URI
char nextCh = sb.charAt(i + 1);
if (nextCh != '/' && nextCh != '\\')
sb.deleteCharAt(i); // remove the extra '\'
else
i++;
}
i++;
}
path = sb.toString();

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private void checkUri(String dmtUri) throws IllegalArgumentException {
if (!Uri.isValidUri(dmtUri))
throw new IllegalArgumentException("'dmtUri' parameter does not contain a valid URI.");
if (!Uri.isAbsoluteUri(dmtUri))
throw new IllegalArgumentException("'dmtUri' parameter does not contain an absolute URI.");
}

/**
 * Checks whether the given object is equal to this DmtPermission instance.
 * Two DmtPermission instances are equal if they have the same target string
 * and the same action mask. The "*" action mask is considered equal to a
 * mask containing all actions.
 * *
 * @param obj the object to compare to this DmtPermission instance
 * @return [ @code true ] if the parameter represents the same permissions as
 *         this instance
 */
public boolean equals(Object obj) {
if (obj == this)
return true;
if (!(obj instanceof DmtPermission))
return false;

DmtPermission other = (DmtPermission) obj;

return mask == other.mask && prefixPath == other.prefixPath && path.equals(other.path);
}

/**
 * Returns the String representation of the action list. The allowed actions
 * are listed in the following order: Add, Delete, Exec, Get, Replace. The
 * wildcard character is not used in the returned string, even if the class
 * was created using the "*" wildcard.
 * *
 * @return canonical action list for this permission object
 */
public String getActions() {
return actions;
}

/**
 * Returns the hash code for this permission object. If two DmtPermission
 * objects are equal according to the [ @link #equals(Object) ] method, then
 * calling this method on each of the two DmtPermission objects must produce
* the same integer result.

* @return hash code for this permission object

*/
public int hashCode() {
}

/**
 * Checks if this DmtPermission object &quot;implies&quot; the specified
 * permission. This method returns @code false@ if and only if at least one
 * of the following conditions are fulfilled for the specified permission:
 * @li it is not a DmtPermission
 * @li its set of actions contains an action not allowed by this permission
 * @li the set of nodes defined by its path contains a node not defined by
 * the path of this permission
 * @li false
 *
 * @param p the permission to check for implication
 * @return true if this DmtPermission instance implies the specified
 *         permission
 *
 */
public boolean implies(Permission p) {
    if (!(p instanceof DmtPermission))
        return false;
    DmtPermission other = (DmtPermission) p;
    if ((mask & other.mask) != other.mask)
        return false;
    return impliesPath(other);
}

/**
 * Returns a new PermissionCollection object for storing DmtPermission
 * objects.
 *
 * @return the new PermissionCollection
 *
 */
public PermissionCollection newPermissionCollection() {
    return new DmtPermissionCollection();
}

// parses the given action string. and returns the corresponding action mask
private static int getMask(String actions) {
    int mask = 0;

if (actions == null)
    throw new NullPointerException("'actions' parameter cannot be null.");

if (actions.equals("*"))
    return Acl.ALL_PERMISSION;

// empty tokens (swallowed by StringTokenizer) are not considered errors
StringTokenizer st = new StringTokenizer(actions, ",");
while (st.hasMoreTokens()) {
    String action = st.nextToken().trim();
    if (action.equalsIgnoreCase(GET)) {
        mask |= Acl.GET;
    } else
        if (action.equalsIgnoreCase(ADD)) {
            mask |= Acl.ADD;
        } else
            if (action.equalsIgnoreCase(REPLACE)) {
                mask |= Acl.REPLACE;
            } else
                if (action.equalsIgnoreCase(DELETE)) {
                    mask |= Acl.DELETE;
                } else
                    if (action.equalsIgnoreCase(EXEC)) {
                        mask |= Acl.EXEC;
                    } else
                        throw new IllegalArgumentException("Invalid action ", + action + ";");
}

if (mask == 0)
    throw new IllegalArgumentException("Action mask cannot be empty.");

return mask;

// generates the canonical string representation of the action list
private static String canonicalActions(int mask) {
    StringBuffer sb = new StringBuffer();
    addAction(sb, mask, Acl.ADD, ADD);
    addAction(sb, mask, Acl.DELETE, DELETE);
    addAction(sb, mask, Acl.EXEC, EXEC);
    addAction(sb, mask, Acl.GET, GET);
    addAction(sb, mask, Acl.REPLACE, REPLACE);
    return sb.toString();
}

// if 'flag' appears in 'mask', appends the 'action' string to the contents
// of 'sb', separated by a comma if needed
private static void addAction(StringBuffer sb, int mask, int flag, String action) {
    if ((mask & flag) != 0) {
        if (sb.length() > 0)
            sb.append(',');
        sb.append(action);
    }
}

// used by DmtPermissionCollection to retrieve the action mask
int getMask() {
    return mask;
}

// returns true if the path parameter of the given DmtPermission is
// implied by the path of this permission, i.e. this path is a prefix of the
// other path, but ends with a *, or the two path strings are equal
boolean impliesPath(DmtPermission p) {
    return prefixPath ? p.path.startsWith(path) : !p.prefixPath && p.path.equals(path);
}

/**
 * Represents a homogeneous collection of DmtPermission objects.
 */
final class DmtPermissionCollection extends PermissionCollection {
    private static final long serialVersionUID = -4172481774562012941L;

    // OPTIMIZE keep a special flag for permissions of "*" path

    private ArrayList perms;

    /**
     * Create an empty DmtPermissionCollection object.
     */
    public DmtPermissionCollection() {
        perms = new ArrayList();
    }

    /**
     * Adds a permission to the DmtPermissionCollection.
     * @param permission the Permission object to add
     * @exception IllegalArgumentException if the permission is not a
     *          DmtPermission
     * @exception SecurityException if this DmtPermissionCollection object has
     *          been marked readonly
     */
    public void add(Permission permission) {
    }
}
if (!(permission instanceof DmtPermission))
throw new IllegalArgumentException("Cannot add permission, invalid permission type: "+ permission);
if (isReadOnly())
throw new SecurityException("Cannot add permission, collection is marked read-only.");

// No need to synchronize because all adds are done sequentially
// before any implies() calls
perms.add(permission);
}

/**
 * Check whether this set of permissions implies the permission specified in
 * the parameter.
 * @param permission the Permission object to compare
 * @return true if the parameter permission is a proper subset of the
 * permissions in the collection, false otherwise
 */
public boolean implies(Permission permission) {
if (!(permission instanceof DmtPermission))
return false;

DmtPermission other = (DmtPermission) permission;

int required = other.getMask();
int available = 0;
int needed = required;

Iterator i = perms.iterator();
while (i.hasNext()) {
DmtPermission p = (DmtPermission) i.next();
if (((needed & p.getMask()) != 0) && p.impliesPath(other)) {
available |= p.getMask();
if ((available & required) == required)
return true;
needed = (required ^ available);
}
}

return false;
}

/**
 * Returns an enumeration of all the DmtPermission objects in the container.
 * The returned value cannot be {code null}.
 *
 * @return an enumeration of all the DmtPermission objects
 */

public Enumeration elements() {
    // Convert Iterator into Enumeration
    return Collections.enumeration(perms);
}
}
/*
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 * limitations under the License.
 */
package org.osgi.service.dmt.security;

import java.security.Permission;
import java.security.PermissionCollection;
import java.util.ArrayList;
import java.util.Collections;
import java.util.Enumeration;
import java.util.Iterator;

/**
 * Indicates the callers authority to create DMT sessions on behalf of a remote
 * management server. Only protocol adapters communicating with management
 * servers should be granted this permission.
 * <p>
 * {@code DmtPrincipalPermission} has a target string which controls the name of
 * the principal on whose behalf the protocol adapter can act. A wildcard is
 * allowed at the end of the target string, to allow using any principal name
 * with the given prefix. The &quot;*" target means the adapter can create
 * a session in the name of any principal.
 * <p>
 * @author $Id: f58885e938ced170c689e746d5326e01c5fa8079 $
 */
public class DmtPrincipalPermission extends Permission {
    private static final long serialVersionUID = 6388752177325038332L;
    // specifies whether the target string had a wildcard at the end
    private static final long serialVersionUID = 6388752177325038332L;
    private final boolean isPrefix;
    public DmtPrincipalPermission() {
    }
    public DmtPrincipalPermission(String target) {
    }
    public boolean implies(Permission p) {
    }
    public boolean equals(Object o) {
    }
    public int hashCode() {
    }
    @Override
    public String toString() {
    }
    @Override
    public void checkPermission(PermissionCollection pc)
    }
    public static final String&
// the target string without the wildcard (if there was one)
private final String principal;

/**
 * Creates a new [DmtPrincipalPermission] object with its name set to
 * the target string. Name must be non-null and non-empty.
 * @param target the name of the principal, can end with [*] to match
 * any principal with the given prefix
 * @throws NullPointerException if [name] is [null]
 * @throws IllegalArgumentException if [name] is empty
 */
public DmtPrincipalPermission(String target) {
    super(target);

    if (target == null)
        throw new NullPointerException("'target' parameter must not be null.");

    if (target.equals(""))
        throw new IllegalArgumentException("'target' parameter must not be empty.");

    isPrefix = target.endsWith("*");
    if (isPrefix)
        principal = target.substring(0, target.length() - 1);
    else
        principal = target;
}

/**
 * Creates a new [DmtPrincipalPermission] object using the 'canonical'
 * two argument constructor. In this version this class does not define any
 * actions, the second argument of this constructor must be "*" so that this
 * class can later be extended in a backward compatible way.
 * @param target the name of the principal, can end with [*] to match
 * any principal with the given prefix
 * @param actions no actions defined, must be "*" for forward compatibility
 * @throws NullPointerException if [name] or [actions] is [null]
 * @throws IllegalArgumentException if [name] is empty or
 *      [actions] is not "*"
 */
public DmtPrincipalPermission(String target, String actions) {
    this(target);

    if (actions == null)
        throw new NullPointerException("'actions' parameter must not be null.");

    isPrefix = actions.endsWith("*");
    if (isPrefix)
        principal = actions.substring(0, actions.length() - 1);
    else
        principal = actions;
if (!actions.equals("*"))
throw new IllegalArgumentException("'actions' parameter must be \"*\".");
}

/**
 * Checks whether the given object is equal to this DmtPrincipalPermission
 * instance. Two DmtPrincipalPermission instances are equal if they have the
 * same target string.
 * *
 * @param obj the object to compare to this DmtPrincipalPermission instance
 * @return [code true] if the parameter represents the same permissions as
 *         this instance
 * */
public boolean equals(Object obj) {
if (obj == this)
return true;

if (!(obj instanceof DmtPrincipalPermission))
return false;

DmtPrincipalPermission other = (DmtPrincipalPermission) obj;

return isPrefix == other.isPrefix && principal.equals(other.principal);
}

/**
 * Returns the action list (always [code \"*\"] in the current version).
 * *
 * @return the action string &quot;*";
 * */
public String getActions() {
return "*";
}

/**
 * Returns the hash code for this permission object. If two
 * DmtPrincipalPermission objects are equal according to the
 * [link #equals(Object)] method, then calling this method on each of the
 * two DmtPrincipalPermission objects must produce the same integer result.
 * *
 * @return hash code for this permission object
 * */
public int hashCode() {
return new Boolean(isPrefix).hashCode() ^ principal.hashCode();
}

/**
 * Checks whether the given object is equal to this DmtPrincipalPermission
 * instance. Two DmtPrincipalPermission instances are equal if they have the
 * same target string.
 * *
 * @param obj the object to compare to this DmtPrincipalPermission instance
 * @return [code true] if the parameter represents the same permissions as
 *         this instance
 * */

* Checks if this DmtPrincipalPermission object implies the specified
* permission. Another DmtPrincipalPermission instance is implied by this
* permission either if the target strings are identical, or if this target
* can be made identical to the other target by replacing a trailing
* "*" with any string.
* @param p the permission to check for implication
* @return true if this DmtPrincipalPermission instance implies the
*         specified permission
*/
public boolean implies(Permission p) {
    if (!(p instanceof DmtPrincipalPermission))
        return false;

    DmtPrincipalPermission other = (DmtPrincipalPermission) p;

    return impliesPrincipal(other);
}

/**
 * Returns a new PermissionCollection object for storing
 * DmtPrincipalPermission objects.
 *
 * @return the new PermissionCollection
 */
public PermissionCollection newPermissionCollection() {
    return new DmtPrincipalPermissionCollection();
}

/*
 * Returns true if the principal parameter of the given
 * DmtPrincipalPermission is implied by the principal of this permission,
 * i.e. this principal is a prefix of the other principal but ends with a *
 * or the two principal strings are equal.
 */
boolean impliesPrincipal(DmtPrincipalPermission p) {
    return isPrefix ? p.principal.startsWith(principal) : !p.isPrefix && p.principal.equals(principal);
}

/*
 * Represents a homogeneous collection of DmtPrincipalPermission objects.
 */
final class DmtPrincipalPermissionCollection extends PermissionCollection {
    private static final long serialVersionUID = -6692103535775802684L;

    private ArrayList perms;
/**
 * Create an empty DmtPrincipalPermissionCollection object.
 */
public DmtPrincipalPermissionCollection() {
perms = new ArrayList();
}

/**
 * Adds a permission to the DmtPrincipalPermissionCollection.
 *
 * @param permission the Permission object to add
 * @exception IllegalArgumentException if the permission is not a
 *            DmtPrincipalPermission
 * @exception SecurityException if this DmtPrincipalPermissionCollection
 *            object has been marked readonly
 */
public void add(Permission permission) {
if (!(permission instanceof DmtPrincipalPermission))
throw new IllegalArgumentException("Cannot add permission, invalid permission type: " + permission);
if (isReadOnly())
throw new SecurityException("Cannot add permission, collection is marked read-only.");

// only add new permission if it is not already implied by the
// permissions in the collection
if (!implies(permission)) {
// remove all permissions that are implied by the new one
Iterator i = perms.iterator();
while (i.hasNext())
if (permission.implies((DmtPrincipalPermission) i.next()))
i.remove();

// no need to synchronize because all adds are done sequentially
// before any implies() calls
perms.add(permission);
}

/**
 * Check whether this set of permissions implies the permission specified in
 * the parameter.
 *
 * @param permission the Permission object to compare
 * @return true if the parameter permission is a proper subset of the
 * permissions in the collection, false otherwise
 */
public boolean implies(Permission permission) {
if (!(permission instanceof DmtPrincipalPermission))
return false;

DmtPrincipalPermission other = (DmtPrincipalPermission) permission;

Iterator i = perms.iterator();
while (i.hasNext())
if (((DmtPrincipalPermission) i.next()).impliesPrincipal(other))
return true;

return false;
}

/**
 * Returns an enumeration of all the DmtPrincipalPermission objects in the
 * container. The returned value cannot be [ @code null ].
 *
 * @return an enumeration of all the DmtPrincipalPermission objects
 */
public Enumeration elements() {
// Convert Iterator into Enumeration
return Collections.enumeration(perms);
}
}

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

package org.osgi.service.dmt;

/**
 * Unchecked illegal state exception. This class is used in DMT because
 * java.lang.IllegalStateException does not exist in CLDC.
 *
 * @author $Id: ab7441ab9ccea82894de416498a66b9376001581 $
 */
public class DmtIllegalStateException extends RuntimeException {

}
private static final long serialVersionUID = 2015244852018469700L;

/**
 * Create an instance of the exception with no message.
 */
public DmtIllegalStateException() {
    super();
}

/**
 * Create an instance of the exception with the specified message.
 * @param message the reason for the exception
 */
public DmtIllegalStateException(String message) {
    super(message);
}

/**
 * Create an instance of the exception with the specified cause exception
 * and no message.
 * @param cause the cause of the exception
 */
public DmtIllegalStateException(Throwable cause) {
    super(cause);
}

/**
 * Create an instance of the exception with the specified message and cause
 * exception.
 * @param message the reason for the exception
 * @param cause the cause of the exception
 */
public DmtIllegalStateException(String message, Throwable cause) {
    super(message, cause);
}

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

package org.osgi.service.event;

import java.io.IOException;
import java.io.ObjectInputStream;
import java.io.ObjectOutputStream;
import java.io.ObjectStreamField;
import java.security.Permission;
import java.security.PermissionCollection;
import java.util.ArrayList;
import java.util.Collections;
import java.util.Enumeration;
import java.util.HashMap;
import java.util.Hashtable;
import java.util.List;
import java.util.Map;

/**
 * A bundle's authority to publish or subscribe to event on a topic.
 * 
 * A topic is a slash-separated string that defines a topic.
 * 
 * For example:
 * 
 * org/osgi/service/foo/FooEvent/ACTION
 * 
 * TopicPermission has two actions: publish and subscribe.
 * 
 * @ThreadSafe
 * @author $Id: f20bc549a406856113998df2068c0fb3e8c0be88 $
 */
public final class TopicPermission extends Permission {
    static final long serialVersionUID = -5855563886961618300L;

    /**
     * The action string publish.
     * 
     * @code TopicPermission has two actions: publish and subscribe.
     * 
     * @ThreadSafe
     * @author $Id: f20bc549a406856113998df2068c0fb3e8c0be88 $
     */
    public final static String PUBLISH = "publish";
/**
 * The action string `subscribe`.
 */
public final static String SUBSCRIBE = "subscribe";

private final static int ACTION_PUBLISH = 0x00000001;
private final static int ACTION_SUBSCRIBE = 0x00000002;
private final static int ACTION_ALL = ACTION_PUBLISH | ACTION_SUBSCRIBE;
private final static int ACTION_NONE = 0;

/**
 * The actions mask.
 */
private transient int action_mask;

/**
 * prefix if the name is wildcarded.
 */
private transient volatile String prefix;

/**
 * The actions in canonical form.
 *
 * @serial
 */
private volatile String actions = null;

/**
 * Defines the authority to publich and/or subscribe to a topic within the
 * EventAdmin service.
 * <p>
 * The name is specified as a slash-separated string. Wildcards may be used.
 * For example:
 * <pre>
 * org/osgi/service/fooFooEvent/ACTION
 * com/isv/*
 * *
 * </pre>
 * *
 * A bundle that needs to publish events on a topic must have the
 * appropriate `TopicPermission` for that topic; similarly, a bundle
 * that needs to subscribe to events on a topic must have the appropriate
 * `TopicPermssion` for that topic.
 * <p>
 * @param name Topic name.
 * @param actions `publish`, `subscribe` (canonical order).
 */
public TopicPermission(String name, String actions) {
    this(name, parseActions(actions));
}

/**
 * Package private constructor used by TopicPermissionCollection.
 * 
 * @param name class name
 * @param mask action mask
 */
TopicPermission(String name, int mask) {
    super(name);
    setTransients(mask);
}

/**
 * Called by constructors and when deserialized.
 * 
 * @param name topic name
 * @param mask action mask
 */
private synchronized void setTransients(final int mask) {
    final String name = getName();
    if ((name == null) || name.length() == 0) {
        throw new IllegalArgumentException("invalid name");
    }
    if ((mask == ACTION_NONE) || ((mask & ACTION_ALL) != mask)) {
        throw new IllegalArgumentException("invalid action string");
    }
    action_mask = mask;
    if (name.equals("*")) {
        prefix = "";
    } else {
        if (name.endsWith("/*")) {
            prefix = name.substring(0, name.length() - 1);
        } else {
            prefix = null;
        }
    }
}

/**
 * Returns the current action mask.
 * 
 * Used by the TopicPermissionCollection class.
 */
* @return Current action mask.
* /
synchronized int getActionsMask() {
    return action_mask;
}

/**
 * Parse action string into action mask.
 *
 * @param actions Action string.
 * @return action mask.
 * /
private static int parseActions(final String actions) {
    boolean seencomma = false;
    int mask = ACTION_NONE;
    if (actions == null) {
        return mask;
    }
    char[] a = actions.toCharArray();
    int i = a.length - 1;
    if (i < 0)
        return mask;
    while (i != -1) {
        char c;
        // skip whitespace
        while ((i != -1) && ((c = a[i]) == ' ' || c == '' || c == '
' || c == '' || c == '	'))
            i--;
        // check for the known strings
        int matchlen;
        if (i >= 8 && (a[i - 8] == 's' || a[i - 8] == 'S')
            && (a[i - 7] == 'u' || a[i - 7] == 'U')
            && (a[i - 6] == 'b' || a[i - 6] == 'B')
            && (a[i - 5] == 's' || a[i - 5] == 'S')
            && (a[i - 4] == 'c' || a[i - 4] == 'C')
            && (a[i - 3] == 'r' || a[i - 3] == 'R')
            && (a[i - 2] == 'i' || a[i - 2] == 'I')
            && (a[i - 1] == 'b' || a[i - 1] == 'B')
            && (a[i] == 'e' || a[i] == 'E')) {
            matchlen = 9;
            mask |= ACTION_SUBSCRIBE;
        }
        else
            if (i >= 6 && (a[i - 6] == 'p' || a[i - 6] == 'P')
                && (a[i - 5] == 'u' || a[i - 5] == 'U')
                && (a[i - 4] == 'b' || a[i - 4] == 'B')
                && (a[i - 3] == 'l' || a[i - 3] == 'L')
                && (a[i - 2] == 'i' || a[i - 2] == 'I')
                && (a[i - 1] == 's' || a[i - 1] == 'S')
                && (a[i] == 'e' || a[i] == 'E')) {
                matchlen = 7;
                mask |= ACTION_SUBSCRIBE;
            }
            else
                if (i >= 4 && (a[i - 4] == 'u' || a[i - 4] == 'U')
                    && (a[i - 3] == 'b' || a[i - 3] == 'B')
                    && (a[i - 2] == 'a' || a[i - 2] == 'A')
                    && (a[i - 1] == 'e' || a[i - 1] == 'E')
                    && (a[i] == 'p' || a[i] == 'P')) {
                    matchlen = 5;
                    mask |= ACTION_SUBSCRIBE;
                }
                else
                    if (i >= 2 && (a[i - 2] == 'n' || a[i - 2] == 'N')
                        && (a[i - 1] == 'a' || a[i - 1] == 'A')
                        && (a[i] == 'c' || a[i] == 'C')) {
                        matchlen = 4;
                        mask |= ACTION_SUBSCRIBE;
                    }
                    else
                        if (i >= 1 && (a[i - 1] == 'a' || a[i - 1] == 'A')
                            && (a[i] == 'c' || a[i] == 'C')) {
                            matchlen = 3;
                            mask |= ACTION_SUBSCRIBE;
                        }
                        else
                            if (i >= 0 && (a[i] == 'c' || a[i] == 'C')) {
                                matchlen = 1;
                                mask |= ACTION_SUBSCRIBE;
                            }
                            else
                                return mask;
        }
    }
    return mask;
}
&& (a[i] == 'h' || a[i] == 'H')) {
    matchlen = 7;
    mask |= ACTION_PUBLISH;
} else {
    // parse error
    throw new IllegalArgumentException("invalid permission: "+ actions);
}
// make sure we didn't just match the tail of a word
// like "ackbarfpublish". Also, skip to the comma.
seencomma = false;
while (i >= matchlen && !seencomma) {
    switch (a[i - matchlen]) {
    case ',':
        seencomma = true;
        /* FALLTHROUGH */
    case ' ':
    case '':
    case '
':
    case '':
    case '	':
        break;
    default :
        throw new IllegalArgumentException("invalid permission: "+ actions);
    }
    i--;
}
// point i at the location of the comma minus one (or -1).
i -= matchlen;
}
if (seencomma) {
    throw new IllegalArgumentException("invalid permission: "+ actions);
}
return mask;

/**
 * Determines if the specified permission is implied by this object.
 *
 * @param <p>
 * This method checks that the topic name of the target is implied by the
 * topic name of this object. The list of [ @code TopicPermission] actions
 * must either match or allow for the list of the target object to imply the
 * target [ @code TopicPermission] action.
 * @</p>
 * @param x/y/*,"publish" -> x/y/z,"publish" is true
public boolean implies(Permission p) {
    if (p instanceof TopicPermission) {
        TopicPermission requested = (TopicPermission) p;
        int requestedMask = requested.getActionsMask();
        if ((getActionsMask() & requestedMask) == requestedMask) {
            String requestedName = requested.getName();
            String pre = prefix;
            if (pre != null) {
                return requestedName.startsWith(pre);
            }
            return requestedName.equals(getName());
        }
    }
    return false;
}

/**
 * Returns the canonical string representation of the
 * {@code TopicPermission} actions.
 *
 * @return Canonical string representation of the {@code TopicPermission} actions.
 */
public String getActions() {
    String result = actions;
    if (result == null) {
        StringBuffer sb = new StringBuffer();
        boolean comma = false;
        int mask = getActionsMask();
        if ((mask & ACTION_PUBLISH) == ACTION_PUBLISH) {
            sb.append(PUBLISH);
            comma = true;
        }
        if ((mask & ACTION_SUBSCRIBE) == ACTION_SUBSCRIBE) {
            sb.append(SUBSCRIBE);
            comma = true;
        }
    }
    return sb.toString();
}
if (comma)
sb.append(',');
sb.append(SUBSCRIBE);
}
actions = result = sb.toString();
}
return result;
}

/**
 * Returns a new [@code PermissionCollection] object suitable for storing
 * [@code TopicPermission] objects.
 *
 * @return A new [@code PermissionCollection] object.
 */
public PermissionCollection newPermissionCollection() {
return new TopicPermissionCollection();
}

/**
 * Determines the equality of two [@code TopicPermission] objects.
 *
 * This method checks that specified [@code TopicPermission] has the same
 * topic name and actions as this [@code TopicPermission] object.
 *
 * @param obj The object to test for equality with this
 *            [@code TopicPermission] object.
 * @return [@code true] if [@code obj] is a [@code TopicPermission], and has
 *         the same topic name and actions as this [@code TopicPermission]
 *         object; [@code false] otherwise.
 */
public boolean equals(Object obj) {
if (obj == this) {
return true;
}
if (!(obj instanceof TopicPermission)) {
return false;
}
TopicPermission tp = (TopicPermission) obj;
return (getActionsMask() == tp.getActionsMask()) && getName().equals(tp.getName());
}

/**
 * Returns the hash code value for this object.
 *
 * @return A hash code value for this object.
 */
public int hashCode() {
```java
int h = 31 * 17 + getName().hashCode();
h = 31 * h + getActions().hashCode();
return h;
}

/**
 * WriteObject is called to save the state of this permission object to a
 * stream. The actions are serialized, and the superclass takes care of the
 * name.
 */
private synchronized void writeObject(java.io.ObjectOutputStream s) throws IOException {
    // Write out the actions. The superclass takes care of the name
    // call getActions to make sure actions field is initialized
    if (actions == null)
        getActions();
    s.defaultWriteObject();
}

/**
 * readObject is called to restore the state of this permission from a
 * stream.
 */
private synchronized void readObject(java.io.ObjectInputStream s) throws IOException, ClassNotFoundException {
    // Read in the action, then initialize the rest
    s.defaultReadObject();
    setTransients(parseActions(actions));
}

/**
 * Stores a set of TopicPermission permissions.
 * @see java.security.Permission
 * @see java.security.Permissions
 * @see java.security.PermissionCollection
 */
final class TopicPermissionCollection extends PermissionCollection {
    static final long serialVersionUID = -614647783533924048L;
    /**
     * Table of permissions.
     * @GuardedBy this
     */
    private transient Map<String, TopicPermission> permissions;
    /**
     * Boolean saying if "*" is in the collection.
     */
    private transient boolean hasWildcard;
```
private boolean all_allowed;

/**
 * Create an empty TopicPermissions object.
 */
public TopicPermissionCollection()
    throws IllegalArgumentException, SecurityException {
    permissions = new HashMap<String, TopicPermission>();
    all_allowed = false;
}

/**
 * Adds a permission to the TopicPermissions objects. The key for the
 * hash is the name.
 *
 * @param permission The TopicPermission object to add.
 *
 * @throws IllegalArgumentException If the permission is not a
 *         TopicPermission instance.
 *
 * @throws SecurityException If this TopicPermissionCollection
 *         object has been marked read-only.
 */
public void add(final Permission permission) {
    if (!(permission instanceof TopicPermission)) {
        throw new IllegalArgumentException("invalid permission: " + permission);
    }
    if (isReadOnly()) {
        throw new SecurityException("attempt to add a Permission to a readonly PermissionCollection");
    }
    final TopicPermission tp = (TopicPermission) permission;
    final String name = tp.getName();
    final int newMask = tp.getActionsMask();
    synchronized (this) {
        final TopicPermission existing = permissions.get(name);
        if (existing != null) {
            final int oldMask = existing.getActionsMask();
            if (oldMask != newMask) {
                permissions.put(name, new TopicPermission(name, oldMask | newMask));
            } else {
                permissions.put(name, tp);
            }
        } else {
            if (!all_allowed) {
                if (name.equals("*"))
                    permissions.put(name, tp);
            }
        }
    }
}
all_allowed = true;

/**
 * Determines if the specified permissions implies the permissions expressed
 * in [ @code permission ].
 *
 * @param permission The Permission object to compare with this
 *        [ @code TopicPermission ] object.
 *
 * @return [ @code true ] if [ @code permission ] is a proper subset of a
 *         permission in the set; [ @code false ] otherwise.
 */
public boolean implies(final Permission permission) {
    if (!(permission instanceof TopicPermission)) {
        return false;
    }
    final TopicPermission requested = (TopicPermission) permission;
    String name = requested.getName();
    final int desired = requested.getActionsMask();
    int effective = 0;
    TopicPermission x;
    // short circuit if the "*" Permission was added
    synchronized (this) {
        if (all_allowed) {
            x = permissions.get("*");
            if (x != null) {
                effective |= x.getActionsMask();
                if ((effective & desired) == desired) {
                    return true;
                }
            }
        }
        x = permissions.get(name);
    }
    // strategy:
    // Check for full match first. Then work our way up the
    // name looking for matches on a/b/*
    if (x != null) {
        // we have a direct hit!
        effective |= x.getActionsMask();
        if ((effective & desired) == desired) {
            return true;
        }
    }
}
// work our way up the tree...
int last;
int offset = name.length() - 1;
while ((last = name.lastIndexOf("/", offset)) != -1) {
    name = name.substring(0, last + 1) + "+*";
    synchronized (this) {
        x = permissions.get(name);
    }
    if (x != null) {
        effective |= x.getActionsMask();
        if ((effective & desired) == desired) {
            return true;
        }
    }
    offset = last - 1;
}
// we don't have to check for "*" as it was already checked
// at the top (all_allowed), so we just return false
return false;

/**
 * Returns an enumeration of all {@code TopicPermission} objects in the
 * container.
 *
 * @return Enumeration of all {@code TopicPermission} objects.
 */
public synchronized Enumeration<Permission> elements() {
    List<Permission> all = new ArrayList<Permission>(permissions.values());
    return Collections.enumeration(all);
}

/* serialization logic */
private static final ObjectStreamField[] serialPersistentFields = {
    new ObjectStreamField("permissions", Hashtable.class),
    new ObjectStreamField("all_allowed", Boolean.TYPE)
};

private synchronized void writeObject(ObjectOutputStream out) throws IOException {
    Hashtable<String, TopicPermission> hashtable = new Hashtable<String, TopicPermission>(permissions);
    ObjectOutputStream.PutField pfields = out.putFields();
    pfields.put("permissions", hashtable);
    pfields.put("all_allowed", all_allowed);
    out.writeFields();
}

private synchronized void readObject(java.io.ObjectInputStream in) throws IOException, ClassNotFoundException {
    ObjectInputStream.GetField gfields = in.readFields();
    Hashtable<String, TopicPermission> hashtable = (Hashtable<String, TopicPermission>) gfields.get("permissions",
                       ObjectStreamField.PutFieldDescriptorripsent fields = out.putFields();
    pfields.put("permissions", hashtable);
    pfields.put("all_allowed", all_allowed);
    out.writeFields();
}

private synchronized void readObject(java.io.ObjectInputStream in) throws IOException, ClassNotFoundException {
    ObjectInputStream.GetField gfields = in.readFields();
    Hashtable<String, TopicPermission> hashtable = (Hashtable<String, TopicPermission>) gfields.get("permissions",
                       ObjectStreamField.PutFieldDescriptorripsent fields = out.putFields();
    pfields.put("permissions", hashtable);
    pfields.put("all_allowed", all_allowed);
    out.writeFields();
}
null);
permissions = new HashMap<String, TopicPermission>(hashtable);
all_allowed = gfields.get("all_allowed", false);
}
}
/*
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* See the License for the specific language governing permissions and
* limitations under the License.
*/
package org.osgi.service.monitor;

import java.io.UnsupportedEncodingException;
import java.security.Permission;
import java.util.StringTokenizer;

/**
* Indicates the callers authority to publish, read or reset
* {code StatusVariable}s, to switch event sending on or off or to start
* monitoring jobs. The target of the permission is the identifier of the
* {code StatusVariable}, the action can be {code read}, {code publish},
* {code reset}, {code startjob}, {code switchevents}, or the combination of
* these separated by commas. Action names are interpreted case-insensitively,
* but the canonical action string returned by {link #getActions()} uses the
* forms defined by the action constants.
* 
* If the wildcard {code *} appears in the actions field, all legal monitoring
* commands are allowed on the designated target(s) by the owner of the
* permission.
* 
* @author $Id: 2899bf825eb4b7708601d99fb39019087deddefb $
*/
public class MonitorPermission extends Permission {

/**
* 
*/
private static final long serialVersionUID = -9084425194463274314L;

/**<p>
 * Holders of [@code MonitorPermission] with the [@code read] action present
 * are allowed to read the value of the [@code StatusVariable]s specified in
 * the permission's target field.
 */
public static final String READ = "read";

/**<p>
 * Holders of [@code MonitorPermission] with the [@code reset] action
 * present are allowed to reset the value of the [@code StatusVariable]s
 * specified in the permission's target field.
 */
public static final String RESET = "reset";

/**<p>
 * Holders of [@code MonitorPermission] with the [@code publish] action
 * present are [@code Monitorable] services that are allowed to publish the
 * [@code StatusVariable]s specified in the permission's target field. Note,
 * that this permission cannot be enforced when a [@code Monitorable]
 * registers to the framework, because the Service Registry does not know
 * about this permission. Instead, any [@code StatusVariable]s published by
 * a [@code Monitorable] without the corresponding [@code publish]
 * permission are silently ignored by [@code MonitorAdmin], and are
 * therefore invisible to the users of the monitoring service.
 */
public static final String PUBLISH = "publish";

/**<p>
 * Holders of [@code MonitorPermission] with the [@code startjob] action
 * present are allowed to initiate monitoring jobs involving the
 * [@code StatusVariable]s specified in the permission's target field.
 * <sp>
 * A minimal sampling interval can be optionally defined in the following
 * form: [@code startjob:n]. This allows the holder of the permission to
 * initiate time based jobs with a measurement interval of at least
 * [@code n] seconds. If [@code n] is not specified or 0 then the holder of
 * this permission is allowed to start monitoring jobs specifying any
 * frequency.
 */
public static final String STARTJOB = "startjob";

/**<p>
 * Holders of [@code MonitorPermission] with the [@code switchevents] action
 * present are allowed to switch event sending on or off for the value of
 * the [@code StatusVariable]s specified in the permission's target field.
 */
public static final String SWITCHEVENTS = "switchevents";

private static final int READ_FLAG = 0x1;
private static final int RESET_FLAG = 0x2;
private static final int PUBLISH_FLAG = 0x4;
private static final int STARTJOB_FLAG = 0x8;
private static final int SWITCHEVENTS_FLAG = 0x10;
private static final int ALL_FLAGS = READ_FLAG | RESET_FLAG | PUBLISH_FLAG | STARTJOB_FLAG | SWITCHEVENTS_FLAG;

private String monId;
private String varId;
private boolean prefixMonId;
private boolean prefixVarId;
private int mask;
private int minJobInterval;

/**
 * Create a [code MonitorPermission] object, specifying the target and
 * actions.
 *<p>
 * The [code statusVariable] parameter is the target of the permission,
 * defining one or more status variable names to which the specified actions
 * apply. Multiple status variable names can be selected by using the
 * wildcard [code *] in the target string. The wildcard is allowed in both
 * fragments, but only at the end of the fragments.
 *<p>
 * For example, the following targets are valid:
 * [code com.mycomp.myapp/queue_length], [code com.mycomp.myapp/*],
 * [code com.mycomp/&amp;#42;/*]/&lt;/code&gt;, &lt;/code&gt;&amp;#42;/*/&lt;/code&gt;,
 * [code &amp;#42;/queue_length]&lt;/code&gt;, &lt;/code&gt;&amp;#42;/queue*/&lt;/code&gt;.
 *<p>
 * The following targets are invalid: [code *.myapp/queue_length],
 * [code com.*.myapp/queue_length], [code *].
 *<p>
 * The [code actions] parameter specifies the allowed action(s):
 * [code read], [code publish], [code startjob], [code reset],
 * [code switchevents], or the combination of these separated by commas.
 * String constants are defined in this class for each valid action. Passing
 * [code *"*" ] as the action string is equivalent to listing all actions.
 *<p>
 * @param statusVariable the identifier of the [code StatusVariable] in
 * [Monitorable_id][StatusVariable_id] format
 * @param actions the list of allowed actions separated by commas, or
 * [code *] for all actions
 * @throws java.lang.IllegalArgumentException if either parameter is
 * [code null], or invalid with regard to the constraints defined
public MonitorPermission(String statusVariable, String actions) throws IllegalArgumentException {
    super(statusVariable);

    if (statusVariable == null)
        throw new IllegalArgumentException("Invalid StatusVariable path 'null'.");

    if (actions == null)
        throw new IllegalArgumentException("Invalid actions string 'null'.");

    int sep = statusVariable.indexOf('/');
    int len = statusVariable.length();

    if (sep == -1)
        throw new IllegalArgumentException("Invalid StatusVariable path: should contain '/' separator.");
    if (sep == 0 || sep == statusVariable.length() - 1)
        throw new IllegalArgumentException("Invalid StatusVariable path: empty monitorable ID or StatusVariable name.");

    prefixMonId = statusVariable.charAt(sep - 1) == '*';
    prefixVarId = statusVariable.charAt(len - 1) == '*';

    monId = statusVariable.substring(0, prefixMonId ? sep - 1 : sep);
    varId = statusVariable.substring(sep + 1, prefixVarId ? len - 1 : len);

    checkId(monId, "Monitorable ID part of the target");
    checkId(varId, "Status Variable ID part of the target");

    minJobInterval = 0;

    if (actions.equals("*"))
        mask = ALL_FLAGS;
    else {
        mask = 0;
        StringTokenizer st = new StringTokenizer(actions, ",");
        while (st.hasMoreTokens()) {
            String action = st.nextToken().trim();
            if (action.equalsIgnoreCase(READ)) {
                addToMask(READ_FLAG, READ);
                } else
                if (action.equalsIgnoreCase(RESET)) {
                addToMask(RESET_FLAG, RESET);
                } else
                if (action.equalsIgnoreCase(PUBLISH)) {
                addToMask(PUBLISH_FLAG, PUBLISH);
                } else
                if (action.equalsIgnoreCase(SWITCHEVENTS)) {


```
addToMask(SWITCHEVENTS_FLAG, SWITCHEVENTS);
  } else
  if (action.toLowerCase().startsWith(STARTJOB)) {
    minJobInterval = 0;

    int slen = STARTJOB.length();
    if (action.length() != slen) {
      if (action.charAt(slen) != ':
        throw new IllegalArgumentException("Invalid action \" + action + ",\") ;

      try {
        minJobInterval = Integer.parseInt(action.substring(slen + 1));
      } catch (NumberFormatException e) {
        throw new IllegalArgumentException("Invalid parameter in startjob action \" + action + ",\") ;
      }
    }
    addToMask(STARTJOB_FLAG, STARTJOB);
  } else
    throw new IllegalArgumentException("Invalid action \" + action + ",");

private void addToMask(int action, String actionString) {
  if ((mask & action) != 0)
    throw new IllegalArgumentException("Invalid action string: \" + actionString + \" appears multiple times.");

  mask |= action;
}

private void checkId(String id, String idName) throws IllegalArgumentException {
  byte[] nameBytes;
  try {
    nameBytes = id.getBytes("UTF-8");
  } catch (UnsupportedEncodingException e) {
    throw new IllegalStateException(e.getMessage());
  }

  if (nameBytes.length > StatusVariable.MAX_ID_LENGTH)
    throw new IllegalArgumentException(idName + " is too long (over " + StatusVariable.MAX_ID_LENGTH + ")
  bytes in UTF-8 encoding.");

  if (id.equals(".”) || id.equals("..")
    throw new IllegalArgumentException(idName + " is invalid.");

  char[] chars = id.toCharArray();
  for (int i = 0; i < chars.length; i++)
if (StatusVariable.SYMBOLIC_NAME_CHARACTERS.indexOf(chars[i]) == -1)
throw new IllegalArgumentException(idName + " contains invalid characters.");
}

/**
 * Create an integer hash of the object. The hash codes of
 * {@code MonitorPermission}s {@code p1} and {@code p2} are the same if
 * {@code p1.equals(p2)}.
 * *
 * @return the hash of the object
 */
public int hashCode() {
return new Integer(mask).hashCode() ^ new Integer(minJobInterval).hashCode() ^ monId.hashCode() ^ new
Boolean(prefixMonId).hashCode() ^ varId.hashCode() ^ new Boolean(prefixVarId).hashCode();
}

/**
 * Determines the equality of two {@code MonitorPermission} objects. Two
 * objects are equal if their target strings are
 * equal and the same set of actions are listed in their action strings.
 * *
 * @param o the object being compared for equality with this object
 * @return {@code true} if the two permissions are equal
 */
public boolean equals(Object o) {
if (!(o instanceof MonitorPermission))
return false;
MonitorPermission other = (MonitorPermission) o;
return mask == other.mask && minJobInterval == other.minJobInterval && monId.equals(other.monId) &&
prefixMonId == other.prefixMonId && varId.equals(other.varId) &&
prefixVarId == other.prefixVarId;
}

/**
 * Get the action string associated with this permission. The actions are
 * returned in the following order: {@code read}, {@code reset},
 * @code publish}, } @code startjob}, } @code switchevents}.
 * *
 * @return the allowed actions separated by commas, cannot be } @code null
 */
public String getActions() {
StringBuffer sb = new StringBuffer();
appendAction(sb, READ_FLAG, READ);
appendAction(sb, RESET_FLAG, RESET);
appendAction(sb, PUBLISH_FLAG, PUBLISH);
appendAction(sb, STARTJOB_FLAG, STARTJOB);
appendAction(sb, SWITCHEVENTS_FLAG, SWITCHEVENTS);

return sb.toString();
}

private void appendAction(StringBuffer sb, int flag, String actionName) {
if ((mask & flag) != 0) {
if (sb.length() != 0)
    sb.append(',');
    sb.append(actionName);

if (flag == STARTJOB_FLAG && minJobInterval != 0)
    sb.append(':').append(minJobInterval);
}

/**
 * Determines if the specified permission is implied by this permission.
 * This method returns [code false] if and only if at least one of the
 * following conditions are fulfilled for the specified permission:
 * <ul>
 * <li>it is not a [code MonitorPermission]</li>
 * <li>it has a broader set of actions allowed than this one</li>
 * <li>it allows initiating time based monitoring jobs with a lower minimal
 * sampling interval</li>
 * <li>the target set of [code Monitorable]s is not the same nor a subset
 * of the target set of [code Monitorable]s of this permission</li>
 * <li>the target set of [code StatusVariable]s is not the same nor a
 * subset of the target set of [code StatusVariable]s of this permission</li>
 * </ul>
 * @param p the permission to be checked
 * @return [code true] if the given permission is implied by this
 *         permission
 */
public boolean implies(Permission p) {
    if (!(p instanceof MonitorPermission))
        return false;
     MonitorPermission other = (MonitorPermission) p;

    if ((mask & other.mask) != other.mask)
        return false;

    if ((other.mask & STARTJOB_FLAG) != 0 && minJobInterval > other.minJobInterval)
        return false;
return implies(monId, prefixMonId, other.monId, other.prefixMonId) && implies(varId, prefixVarId, other.varId, other.prefixVarId);
}

private boolean implies(String id, boolean prefix, String oid, boolean oprefix) {
return prefix ? oid.startsWith(id) : !oprefix && id.equals(oid);
}

1.344 oshi-core 2.6
1.344.1 Available under license :

/**
 * Oshi (https://github.com/dblock/oshi)
 *
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 */
/**
 * Provides a cross-platform implementation to retrieve system information, such
 * as version, memory, CPU, disk, battery, etc.
 */
package oshi;

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1.345 paranamer 2.5.6

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1.346 pax-logging-api 1.8.3

1.347 phoenix client 2.0.2

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1.348 POI 3.7
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1.353 postgresql-9.5 9.5.3

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1.354 protobuf java 2.4.0a

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1.355 psycopg2 2.7.3.1

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1.358 quartz 1.8.4

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1.360 react-cookie 2.0.8

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{
  "author": "Benoit Tremblay <benoit@reactivestack.com>",
  "license": "MIT",
  "scripts": {
    "build": "rimraf lib && babel src -d lib --ignore __tests__"
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1.361 react-progress-button 5.0.4

1.362 react-redux 5.0.5

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  "version": "5.0.0-alpha.6",
  "description": "Redux bindings for React Router",
  "repository": "ReactTraining/react-router",
  "license": "MIT",
  "authors": [
    "Tim Dorr"
  ],
}

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1.382 slf4j-log4j 1.7.21

1.383 slf4j-log4j12 1.6.1

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1.384 snakeyaml 1.17

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1.385 snappy-java 1.0.5

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1.392 spring-amqp 1.6.5

1.393 spring-aop 4.3.13.RELEASE

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1.422 spring-context 4.3.13.RELEASE

1.423 spring-context 4.3.13

1.424 spring-context-support 3.1.2.RELEASE

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1.425 spring-core 3.1.2.RELEASE

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 */

package org.springframework.test.context.junit4.orm.domain;

/**
 * DriversLicense POJO.
 *
 * @author Sam Brannen
 * @since 3.0
/*
   public class DriversLicense {

   private Long id;

   private Long number;

   public DriversLicense() {
   }

   public DriversLicense(Long number) {
   this(null, number);
   }

   public DriversLicense(Long id, Long number) {
   this.id = id;
   this.number = number;
   }

   public Long getId() {
   return this.id;
   }

   protected void setId(Long id) {
   this.id = id;
   }

   public Long getNumber() {
   return this.number;
   }

   public void setNumber(Long number) {
   this.number = number;
   }
   }

   </hibernate-mapping>
</!DOCTYPE hibernate-mapping PUBLIC "-//Hibernate/Hibernate Mapping DTD//EN"
"http://hibernate.sourceforge.net/hibernate-mapping-3.0.dtd">

<hibernate-mapping auto-import="true" default-lazy="false">

<class name="org.springframework.test.context.junit4.orm.domain.DriversLicense" table="drivers_license">
<id name="id" column="id">
<generator class="identity" />
</id>

<property name="number" column="license_number" />
package org.springframework.orm.jpa.domain;

import javax.persistence.Entity;
import javax.persistence.Id;
import javax.persistence.Table;

@Entity
@Table(name="DRIVERS_LICENSE")
public class DriversLicense {

@Id
private int id;

private String serial_number;

protected DriversLicense() {
}

public DriversLicense(String serialNumber) {
    this.serial_number = serialNumber;
}

public String getSerialNumber() {
    return serial_number;
}

}
1.427 spring-core 4.3.13.RELEASE

1.428 spring-core 4.3.13

1.429 spring-data-commons 1.12.5.RELEASE

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1.430 spring-data-commons-core

1.4.1.RELEASE

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1.435 spring-integration-amqp 2.1.3.RELEASE

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1.445 spring-orm 4.3.5.RELEASE

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1.447 spring-oxm 4.3.13.RELEASE

1.448 spring-rabbit 1.7.2.RELEASE
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1.449 spring-rabbit 1.6.5
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1.453 spring-security-acl 3.1.3.RELEASE

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1.455 spring-security-config 3.1.2.RELEASE

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</div>
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<li><a href="/foundation/members.html">Members</a></li>
<li><a href="/foundation/how-it-works.html">Process</a></li>
<li><a href="/foundation/spONSorship.html">Sponsorship</a></li>
<li><a href="/foundation/glossary.html">Glossary</a></li>
<li><a href="/foundation/preFAQ.html">FAQ</a></li>
<li><a href="/foundation/contact.html">Contact</a></li>
</ul>
</li>
<li><a href="/index.html#projects-list">Projects</a></li>
</ul>
</div>
</div>
</header>
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1.459 spring-security-crypto 3.2.3.RELEASE

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1.460 Spring-security-web 4.2.3

1.461 spring-security-web 3.1.2.RELEASE

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1.466 spring-tx 3.0.7.RELEASE

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import javax.persistence.Entity;
import javax.persistence.Id;
import javax.persistence.Table;

@Entity
@Table(name="DRIVERS_LICENSE")
public class DriversLicense {

    @Id
    private int id;

    private String serial_number;

    protected DriversLicense() {
    }

    public DriversLicense(String serialNumber) {
        this.serial_number = serialNumber;
    }

    public String getSerialNumber() {
        return serial_number;
    }

}
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<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE hibernate-mapping PUBLIC
 "-//Hibernate/Hibernate Mapping DTD//EN"
 "http://hibernate.sourceforge.net/hibernate-mapping-3.0.dtd">

<hibernate-mapping auto-import="true" default-lazy="false">
  <class name="org.springframework.test.context.junit4.orm.domain.DriversLicense" table="drivers_license">
    <id name="id" column="id">
      <generator class="identity" />
    </id>
    <property name="number" column="license_number" />
  </class>
</hibernate-mapping>

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/**
 * DriversLicense POJO.
 * 
 * @author Sam Brannen
 * @since 3.0
 * 
 */
public class DriversLicense {

    private Long id;
    private Long number;

    public DriversLicense() {
    }

    public DriversLicense(Long number) {
        this(null, number);
    }

    public DriversLicense(Long id, Long number) {
        this.id = id;
        this.number = number;
    }

    public Long getId() {
        return this.id;
    }

    protected void setId(Long id) {
        this.id = id;
    }

    public Long getNumber() {
        return this.number;
    }

    public void setNumber(Long number) {
        this.number = number;
    }

}
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- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
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1.489 tomcat-embed-core 9.0.10

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1.496 twilio 7.12.0

1.497 ujson 1.35

1.498 unbescape 1.1.0.RELEASE

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1.499 urllib3 1.22

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# Contributions to the urllib3 project

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  * HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
  * NTLM-authenticated HTTPSConnectionPool
  * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
  * Client-verified SSL certificates for HTTPSConnectionPool
  * Response gzip and deflate encoding support
  * Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>
  * Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRIBZDhBFXQB6/>
  * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
  * Bugfixes, suggestions, Requests integration

* georgemarshall <http://github.com/georgemarshall>
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* Thomas Kluyver <thomas@kluyver.me.uk>
  * Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
  * Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>
  * IPv6 url support and test coverage

* Shivaram Lingamneni <slingamm@cs.stanford.edu>
  * Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
  * Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
  * Support for TLS SNI
  * API unification of ssl_version/cert_reqs
  * SSL fingerprint and alternative hostname verification
  * Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
  * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
  * Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
  * Correct six.moves conflict
  * Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
  * Allowed to skip SSL hostname verification

* Cory Benfield <http://lukasa.co.uk/about/>
  * Stream method for Response objects.
  * Return native strings in header values.
  * Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
  * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
  * Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
* Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
  * Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
  * Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
  * Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
  * HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
  * Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <http://dbrgn.ch/>
  * Disabled TLS compression by default on Python 3.2+
  * Disabled TLS compression in pyopenssl contrib module
  * Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
  * Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
  * Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
  * HTTPHeaderDict and associated tests and docs
  * Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
  * Added Timeout examples in docs

* Arthur Grunseid <http://grunseid.com>
  * source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
  * PEP8 Compliance and Linting
  * Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
  * Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
  * Google App Engine documentation
* Aaron Meurer <asmeurer@gmail.com>
  * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
  * Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
  * Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
  * Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
  * Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
  * Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
  * Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
  * IPv6 bugfixes in testsuite

* Jon Wayne Parrott <jonwayne@google.com>
  * App Engine environment tests.

* John Krauss <https://github.com/talos>
  * Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
  * Fix pool-default headers not applying for url-encoded requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
  * Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
  * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
  * Fix low-level exceptions leaking from `HTTPResponse.stream()`.
  * Bugfix for `ConnectionPool.urlopen(release_conn=False)`.
  * Creation of `HTTPConnectionPool.ResponseCls`.

* Predrag Gruevski <https://github.com/obi1kenobi>
  * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
* Bugfix to `ca_cert` file paths.

* Evan Meagher <https://evanmeagher.net>
* Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
* Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
* Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytt@iki.fi>
* Logging efficiency improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
* Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jesse Shapiro <jesse@jesseshapiro.net>
* Various character-encoding fixes/tweaks
* Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
* Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
* Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
* History list to Retry object.
* HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
* Ensure timeouts are not booleans and greater than zero.
* Fixed infinite loop in ```stream``` when `amt=None`.
* Added `length_remaining` to determine remaining data to be read.
* Added `enforce_content_length` to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
* Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
* Don’t retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
* Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
* Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.
* Tim Burke <tim.burke@gmail.com>
  * Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
  * Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
  * Bugfix to pyopenssl vendoring

* [Your name or handle] <[email or website]>
  * [Brief summary of your changes]

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Ty Coon, President of Vice

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1.515 WSO2 API Manager Analytics 2.1.0

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At the bottom of this file is a table that shows what each license indicated below is and where the actual text of the license can be found.

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spring-beans-3.0.7.RELEASE.jar
spring-context-3.0.7.RELEASE.jar
spring-core-3.0.7.RELEASE.jar
spring-expression-3.0.7.RELEASE.jar
spring-web-3.0.7.RELEASE.jar
spring.framework_3.2.9.wso2v1.jar
stax2-api-3.1.4.jar
step2-common-1.0.0-wso2v2.jar
step2-consumer-1.0.0-wso2v2.jar
step2_1.0.0.wso2v2.jar
svn-client-adapter_1.10.9.wso2v1.jar
tcpmon-1.0.jar
tiles-jsp_2.0.5.wso2v1.jar
tomcat-annotations-api-7.0.73.jar
tomcat-catalina-ha_7.0.73.wso2v1.jar
tomcat-el-api_7.0.73.wso2v1.jar
tomcat-jsp-api_7.0.73.wso2v1.jar
tomcat-juli-7.0.73.jar
tomcat-servlet-api_7.0.73.wso2v1.jar
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tranql-connector_1.1.0.wso2v1.jar
tyranus-standalone-client_1.7.0.wso2v1.jar
u2flib-server-core-0.14.0.jar
velocity-1.7.jar
waffle-jna_1.6.0.wso2v5.jar
woden_1.0.0.M9-wso2v1.jar
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wsl4j-1.6.3.jar
wsl4j-1.6.2.wso2v4.jar
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xalan-2.7.2.wso2v2.jar
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xml-apis-1.4.01.jar
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The actual DOM Java Language Binding classes in xml-commons came from:
http://www.w3.org/TR/2004/REC-DOM-Level-3-Core-20040407/java-binding.html

The specification of DOM Level 3’s various parts is at:
http://www.w3.org/TR/2004/REC-DOM-Level-3-Core-20040407/
http://www.w3.org/TR/2004/REC-DOM-Level-3-LS-20040407/
http://www.w3.org/TR/2004/NOTE-DOM-Level-3-XPath-20040226/

The specification of DOM Level 2’s various parts is at:
http://www.w3.org/TR/2000/REC-DOM-Level-2-Events-20001113/
http://www.w3.org/TR/2000/REC-DOM-Level-2-Style-20001113/
http://www.w3.org/TR/2000/REC-DOM-Level-2-Traversal-Range-20001113/
http://www.w3.org/TR/2000/REC-DOM-Level-2-Views-20001113/

The specification of DOM Level 1’s various parts is at:

Links to all available W3C DOM Java Bindings can be found at:
http://www.w3.org/DOM/DOMTR

The actual classes of The Simple API for CSS (SAC) came from:
http://www.w3.org/Style/CSS/SAC/
http://www.w3.org/2002/06/sacjava-1.3.zip

The actual DOM Java Language Binding classes for SMIL came from:
http://dev.w3.org/cvsweb/java/classes/org/w3c/dom/smil/
(both ElementTimeControl.java and TimeEvent.java were taken at revision 1.1)

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Last revised by Reagle $Date: 2005-06-03 18:49:13 -0400 (Fri, 03 Jun 2005) $


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XmlSchema

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XOM

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