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Contents

1.1 commons-collections 3.2.2
   1.1.1 Available under license
1.2 spring-boot 1.4.2
   1.2.1 Available under license
1.3 jackson-databind 2.10.0.pr2
   1.3.1 Available under license
1.4 xmlschema 1.4.5
   1.4.1 Available under license
1.5 yui-compressor 2.4.6
   1.5.1 Available under license
1.6 javax-json 1.0.4
   1.6.1 Available under license
1.7 spring-web 4.3.13.RELEASE
1.8 log4j-api 2.7
   1.8.1 Available under license
1.9 tomcat-embed-websocket 9.0.19
   1.9.1 Available under license
1.10 slf4j-dk14jar 1.4.2
    1.10.1 Available under license
1.11 twilio 7.12.0
1.12 asm 3.1
   1.12.1 Available under license
1.13 spring-security-web 4.2.3
1.14 activiti-image-generator 5.22.0
   1.14.1 Available under license
1.15 spring-jdbc 3.1.2.RELEASE
Open Source Used In Cisco Kinetic for Cities 4.1.0.03

1.15.1 Available under license
1.16 jackson-mrbean 1.7.9
1.16.1 Available under license
1.17 spring-aop 4.3.13.RELEASE
1.18 commons-codec 1.6
1.18.1 Available under license
1.19 mongo-java-driver 3.2.2
1.19.1 Available under license
1.20 jsonlibjdk15 2.4
1.20.1 Available under license
1.21 commons-collections 3.2.1
1.21.1 Available under license
1.22 kafkastream-parser-lib 1.0
1.22.1 Available under license
1.23 javassist 3.18.2-GA
1.23.1 Available under license
1.24 vert-x 3.4.1
1.24.1 Available under license
1.25 javaopenjdk 1.8.0.121
1.25.1 Available under license
1.26 httpmime 4.2.2
1.26.1 Available under license
1.27 jackson-mapper-asl 1.7.1
1.27.1 Available under license
1.28 jstl 1.2
1.29 felix 4.2.1
1.29.1 Available under license
1.30 woodstox-core-asl 4.1.2
1.31 spring-context 4.3.13.RELEASE
1.32 spring-jdbc 4.3.5.RELEASE
1.32.1 Available under license
1.33 apache-ant-within-cglib 1.6.5
1.33.1 Available under license
1.34 mail 1.4.3
1.34.1 Available under license
1.35 spring-web 3.1.2.RELEASE
1.35.1 Available under license
1.36 spring 3.1.2.RELEASE
1.36.1 Available under license
1.37 morphia 1.3.0
  1.37.1 Available under license
1.38 spring-security-config 4.2.12
  1.38.1 Available under license
1.39 spring-security-config 4.2.1.RELEASE
1.40 spring-expression 5.0.12
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  1.41.1 Available under license
1.42 spring-expression 4.3.13.RELEASE
1.43 activiti-process-validation 5.22.0
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  1.44.1 Available under license
1.45 javassist 3.17.1-GA
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1.49 jsr250-api 1.0
  1.49.1 Available under license
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  1.50.1 Available under license
1.51 jjwt 0.4
1.52 whatwg-fetch 2.0.3
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1.53 spring-boot-starter-tomcat 1.5.9.RELEASE
1.54 log4j-slf4j-impl 2.11.2
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1.56 biz-aquite-bnd 1.44.0
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1.57 itext 2.1.7
  1.57.1 Available under license
1.58 jersey-spring 1.8
  1.58.1 Available under license
1.59 tomcat-embed-core 9.0.10
  1.59.1 Available under license
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  1.60.1 Available under license
1.61 mongodb-driver-core 3.2.2
  1.61.1 Available under license
1.62 aspectj-weaver 1.8.13
  1.62.1 Available under license
1.63 jul-to-slf4j 1.7.26
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1.65 kafka 0.8.1.1
  1.65.1 Available under license
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  1.68.1 Available under license
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  1.69.1 Available under license
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  1.71.1 Available under license
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  1.72.1 Available under license
1.73 spring-boot-starter-aop 1.4.7.RELEASE
1.74 kafka CDH4.0
  1.74.1 Available under license
1.75 hibernate-core 3.3.0 SP1
  1.75.1 Available under license
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  1.76.1 Available under license
1.77 poi 3.7
  1.77.1 Available under license
1.78 checker-qual 2.5.2
  1.78.1 Available under license
1.79 error-prone-annotations 2.2.0
1.80 spring-jdbc 4.3.23
1.80.1 Available under license
1.81 geronimo-stax-api-spec 1.0
    1.81.1 Available under license
1.82 spring-boot-starter-log4j2 1.5.9.RELEASE
1.83 spring-retry 1.0.1
    1.83.1 Available under license
1.84 bean-validation-api 1.1.0
1.85 spring-web-mvc 5.1.6
    1.85.1 Available under license
1.86 tomcat-annotations-api 8.5.32
    1.86.1 Available under license
1.87 jettison 1.1
    1.87.1 Available under license
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    1.88.1 Available under license
1.89 httpcore 4.4.8
    1.89.1 Available under license
1.90 ant 1.9.1
    1.90.1 Available under license
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    1.91.1 Available under license
1.92 jackson-xc 1.7.1
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1.94 spring-context 4.3.13
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    1.96.1 Available under license
1.97 commons-db-cp 1.4
    1.97.1 Available under license
1.98 hbase 0.94.12
    1.98.1 Available under license
1.99 tomcat-embed-core 8.5.40
    1.99.1 Available under license
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Open Source Used In Cisco Kinetic for Cities 4.1.0.08

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1.125 netty-handler 4.1.8
  1.125.1 Available under license
1.126 commons-pool 1.5.4
  1.126.1 Available under license
1.127 spring-boot 1.5.10
  1.127.1 Available under license
1.128 bootstrap 4.0.0.alpha
  1.128.1 Available under license
1.129 jgraph-x 1.10.4.1
  1.129.1 Available under license
1.130 spring-context 5.0.12
  1.130.1 Available under license
1.131 activiti-spring 5.11
  1.131.1 Available under license
1.132 wso2-api-gateway 2.0
  1.132.1 Available under license
1.133 spring-retry 1.2.0.RELEASE
  1.133.1 Available under license
1.134 spring-boot-starter-thymeleaf 1.4.7.RELEASE
1.135 slf4j-api 1.7.25
1.136 jarjar-within-cglib 1.0rc8
  1.136.1 Available under license
1.137 stax-api 1.0-2
  1.137.1 Available under license
1.138 clojure 1.7.0
1.139 commons-lang 2.6
  1.139.1 Available under license
1.140 spring-amqp 1.7.2.RELEASE
  1.140.1 Available under license
1.141 activiti-dmn-model 6.0.0
1.142 spring-boot-starter-actuator 1.5.10.RELEASE
1.143 netty 3.10.6
  1.143.1 Available under license
1.144 commons-codec 1.4 DUPLICATE
  1.144.1 Available under license
1.145 spring-boot-starter-log4j2 1.4.7.RELEASE
1.146 spring-boot-starter-web 1.5.9.RELEASE.jar
1.147 vertx-core 3.4.2
   1.147.1 Available under license
1.148 spring-context 3.1.2.RELEASE
   1.148.1 Available under license
1.149 jboss-logging 3.3.0
   1.149.1 Available under license
1.150 joda-time 2.2
   1.150.1 Available under license
1.151 spring-tx 5.0.12
   1.151.1 Available under license
1.152 spring-aop 5.0.12
   1.152.1 Available under license
1.153 mockito-core 2.0.5-beta
   1.153.1 Available under license
1.154 tomcat-embed-el 9.0.19
   1.154.1 Available under license
1.155 hibernate-annotations 3.4.0
   1.155.1 Available under license
1.156 oshi-core 2.6
   1.156.1 Available under license
1.157 spring-jdbc 4.3.13.RELEASE
1.158 vertx-auth-jwt 3.4.1
   1.158.1 Available under license
1.159 aasmallwithincglib 3.3.1
   1.159.1 Available under license
1.160 commons-lang 3.0.1
   1.160.1 Available under license
1.161 apache-felix-framework 4.4.1
   1.161.1 Available under license
1.162 httpcore 4.4.9
   1.162.1 Available under license
1.163 jetty-continuation 8.1.7.v20120910
   1.163.1 Available under license
1.164 netty-transport 4.1.8
   1.164.1 Available under license
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   1.165.1 Available under license
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   1.166.1 Available under license
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   1.167.1 Available under license
1.168 redis 4.0.14
   1.168.1 Available under license
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   1.169.1 Available under license
1.170 jackson-databind 2.6.3
   1.170.1 Available under license
1.171 aspectj-weaver 1.8.9
   1.171.1 Available under license
1.172 jetty-security 8.1.7 v20120910
   1.172.1 Available under license
1.173 dynamicreports-core 2.3.1
   1.173.1 Available under license
1.174 cdp-eti 1.0
   1.174.1 Available under license
1.175 jersey-client 1.8
   1.175.1 Available under license
1.176 antlr-runtimejar 3.1.1
   1.176.1 Available under license
1.177 metrics-core 2.2.0
   1.177.1 Available under license
1.178 apache-http-client 4.3.6
   1.178.1 Available under license
1.179 oozie-client 4.1.0
   1.179.1 Available under license
1.180 spring-web 4.3.7.RELEASE
   1.180.1 Available under license
1.181 activiti-rest 5.22.0
   1.181.1 Available under license
1.182 netty-buffer 4.1.8.Final
   1.182.1 Available under license
1.183 antlr-runtime 3.4
   1.183.1 Available under license
1.184 junit-within-cglib 3.8.1
   1.184.1 Available under license
1.185 hibernate-commons-annotations 4.0.1.Final
1.185.1 Available under license
1.186 netty-common 4.1.8
1.186.1 Available under license
1.187 javax-el-api 3.0.0
1.187.1 Available under license
1.188 spring-integration-core 4.3.14
1.188.1 Available under license
1.189 c3p0 0.9.1.1
1.189.1 Available under license
1.190 commons-discovery 0.2 DUPLICATE
1.190.1 Notifications
1.190.2 Available under license
1.191 mail 1.4.1
1.191.1 Available under license
1.192 javax-mail 1.5.2
1.192.1 Available under license
1.193 mvel2 2.0.12
1.193.1 Available under license
1.194 jcl-over-slf4j 1.7.25
1.195 spring-data-commons 1.13.20
1.195.1 Available under license
1.196 spring-expression 4.3.5.RELEASE
1.196.1 Available under license
1.197 chardet 3.0.4
1.197.1 Available under license
1.198 activiti-engine 5.22.0
1.198.1 Available under license
1.199 spring-orm 4.3.7
1.199.1 Available under license
1.200 activiti-form-api 6.0.0
1.201 avro 1.7.6-cdh5.4.3
1.201.1 Available under license
1.202 antrl 2.7.7
1.202.1 Available under license
1.203 amqp-client 3.6.6
1.203.1 Available under license
1.204 httpclient 4.5.6
1.204.1 Available under license
1.205 jersey-server 1.8
1.205.1 Available under license
1.206 slf4j-api 1.7.5
  1.206.1 Available under license
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  1.207.1 Available under license
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  1.208.1 Available under license
1.209 bson 3.2.2
  1.209.1 Available under license
1.210 jersey-json 1.8
  1.210.1 Available under license
1.211 tomcat-embed-websocket 9.0.10
  1.211.1 Available under license
1.212 apache-commons-logging 1.2
  1.212.1 Available under license
1.213 tomcat-embed-websocket 8.5.32
  1.213.1 Available under license
1.214 bson 3.4.3
1.215 bean-validation-api 1.1.0.Final
  1.215.1 Available under license
1.216 jasper-reports 4.1.3
  1.216.1 Available under license
1.217 pytz 2017.2
  1.217.1 Available under license
1.218 vertx-mail-client 3.4.1
1.219 pax-logging-api 1.8.3
1.220 npm-run-all 4.0.2
  1.220.1 Available under license
1.221 apache-log4j-extras 1.2.17
  1.221.1 Available under license
1.222 hibernate-entitymanager 3.4.0 GA
1.223 cglib-nodep 2.2.2
  1.223.1 Available under license
1.224 jetty-xml 8.1.7.v20120910
  1.224.1 Available under license
1.225 idna 2.6
1.226 jackson-core-asl 1.9.5
  1.226.1 Available under license
1.227 vertx-hazelcast 3.4.1
1.227.1 Available under license
1.228 httpasyncclient 4.0-beta3
   1.228.1 Available under license
1.229 thymeleaf 2.1.5.RELEASE
   1.229.1 Available under license
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1.231 catch-exception 1.0.4
   1.231.1 Available under license
1.232 apache-mime4j 0.6
   1.232.1 Available under license
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1.235 spring-integration-amqp 2.1.3.RELEASE
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   1.236.1 Available under license
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1.238 apache-jakarta-commons-validator 1.3.1
   1.238.1 Available under license
1.239 spring-boot-starter 1.4.2.RELEASE
   1.239.1 Available under license
1.240 aspectjrt 1.8.9
   1.240.1 Available under license
1.241 hibernate-validator 6.0.9
   1.241.1 Available under license
1.242 spdy-jetty-http 8.1.7.v20120910
   1.242.1 Available under license
1.243 spring-beans 4.3.5.RELEASE
   1.243.1 Available under license
1.244 jetty-servlets 8.1.7.v20120910
   1.244.1 Available under license
1.245 spring-security-web 4.2.12
   1.245.1 Available under license
1.246 activiti-bpmn-layout 5.22.0
   1.246.1 Available under license
1.247 antlr-stringtemplate 3.2.1
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1.259.1 Available under license

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1.273.1 Available under license
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1.274.1 Available under license
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1.281.1 Available under license
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1.282.1 Available under license
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1.283.1 Available under license
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1.288 spring-retry 1.1.4.RELEASE
1.288.1 Available under license
1.289 joda-time 2.6
1.289.1 Available under license
1.290 antlr 2.7.7
1.290.1 Available under license
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1.292 jackson-jaxrs 1.9.5
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   1.293.1 Available under license
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Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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1.6 javax-json 1.0.4

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1.11 twilio 7.12.0

1.12 asm 3.1
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1.13 spring-security-web 4.2.3

1.14 activiti-image-generator 5.22.0

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1.15 spring-jdbc 3.1.2.RELEASE

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<title>Eclipse Foundation Software User Agreement</title>
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 */
package org.codehaus.jackson.map;

import org.codehaus.jackson.*;

/**
 * Sub-class of [@link JsonFactory] that will create a proper
* [@link ObjectCodec] to allow seamless conversions between
* Json content and Java objects (POJOs).
* The only addition to regular [@link JsonFactory] currently
* is that [@link ObjectMapper] is constructed and passed as
* the codec to use.
*/
public class MappingJsonFactory
   extends JsonFactory
{
   public MappingJsonFactory()
   {
      this(null);
   }

   public MappingJsonFactory(ObjectMapper mapper)
   {
      super(mapper);
      if (mapper == null) {
         setCodec(new ObjectMapper(this));
      }
   }

   /**
   * We'll override the method to return more specific type; co-variance
   * helps here
   */
   @Override
   public final ObjectMapper getCodec() { return (ObjectMapper) _objectCodec; }
}

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 */
package org.springframework.security.config;

import org.springframework.beans.factory.config.BeanDefinition;
import org.springframework.beans.factory.support.RootBeanDefinition;
import org.springframework.beans.factory.xml.BeanDefinitionParser;
import org.springframework.beans.factory.xml.ParserContext;
import org.springframework.security.config.debug.SecurityDebugBeanFactoryPostProcessor;
import org.w3c.dom.Element;

/**
 * @author Luke Taylor
 */
public class DebugBeanDefinitionParser implements BeanDefinitionParser {
    public BeanDefinition parse(Element element, ParserContext parserContext) {
        // Code implementation
    }
}
RootBeanDefinition debugPP = new RootBeanDefinition(
    SecurityDebugBeanFactoryPostProcessor.class);
parserContext.getReaderContext().registerWithGeneratedName(debugPP);
return null;

1.39 spring-security-config 4.2.1.RELEASE

1.40 spring-expression 5.0.12

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 */

package org.springframework.expression;

/**
 * A bean resolver can be registered with the evaluation context and will kick in
 * for bean references: {@code @myBeanName} and {@code &myBeanName} expressions.
 * The & variant syntax allows access to the factory bean where relevant.
 *
 * @author Andy Clement
 * @since 3.0.3
 * /
 * public interface BeanResolver {

 /**
 * Look up a bean by the given name and return a corresponding instance for it.
 * For attempting access to a factory bean, the name needs a & prefix.
 * @param context the current evaluation context
* @param beanName the name of the bean to look up
* @return an object representing the bean
* @throws AccessException if there is an unexpected problem resolving the bean
*/
Object resolve(EvaluationContext context, String beanName) throws AccessException;

} /*
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*/

package org.springframework.expression;

/**<*
* This exception wraps (as cause) a checked exception thrown by some method that SpEL
* invokes. It differs from a SpelEvaluationException because this indicates the
* occurrence of a checked exception that the invoked method was defined to throw.
* SpelEvaluationExceptions are for handling (and wrapping) unexpected exceptions.
*
* @author Andy Clement
* @since 3.0.3
*/
@SuppressWarnings("serial")
public class ExpressionInvocationTargetException extends EvaluationException {

public ExpressionInvocationTargetException(int position, String message, Throwable cause) {
    super(position, message, cause);
}

public ExpressionInvocationTargetException(int position, String message) {
    super(position, message);
}

public ExpressionInvocationTargetException(String expressionString, String message) {
    super(expressionString, message);
}
public ExpressionInvocationTargetException(String message, Throwable cause) {
    super(message, cause);
}

public ExpressionInvocationTargetException(String message) {
    super(message);
}

1.41 commons-email 1.5
1.41.1 Available under license:

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1.42 spring-expression 4.3.13.RELEASE

1.43 activiti-process-validation 5.22.0

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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>warn</li>
* <li>info</li>
* <li>error</li>
* <li>fatal</li>
* </ol>
*/

package org.apache.commons.logging;
* <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.
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*
* <p>Performance is often a logging concern.
By examining the appropriate property,
a component can avoid expensive operations (producing information
to be logged).
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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>
* <p>Configuration of the underlying logging system will generally be done
external to the Logging APIs, through whatever mechanism is supported by
that system.
*
* @author Juergen Hoeller (for the {code spring-jcl} variant)
* @since 5.0
*/

public interface Log {

/**
 * Is fatal logging currently enabled?
 * <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.
 * @return true if fatal is enabled in the underlying logger.
 */
boolean isFatalEnabled();

/**
 * Is error logging currently enabled?
 * <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.
 * @return true if error is enabled in the underlying logger.
 */

boolean isErrorEnabled();

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

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

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

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

/**
 * Logs a message with fatal log level.
 * @param message log this message
 */
void fatal(Object message);

/**
 * Logs an error with fatal log level.
/**
 * @param message log this message
 * @param t log this cause
 */
void fatal(Object message, Throwable t);

/**
 * Logs a message with error log level.
 * @param message log this message
 */
void error(Object message);

/**
 * Logs an error with error log level.
 * @param message log this message
 * @param t log this cause
 */
void error(Object message, Throwable t);

/**
 * Logs a message with warn log level.
 * @param message log this message
 */
void warn(Object message);

/**
 * Logs an error with warn log level.
 * @param message log this message
 * @param t log this cause
 */
void warn(Object message, Throwable t);

/**
 * Logs a message with info log level.
 * @param message log this message
 */
void info(Object message);

/**
 * Logs an error with info log level.
 * @param message log this message
 * @param t log this cause
 */
void info(Object message, Throwable t);

/**
 * Logs a message with debug log level.
 * @param message log this message
 */
void debug(Object message);

/**
 * Logs an error with debug log level.
 * @param message log this message
 * @param t log this cause
 */
void debug(Object message, Throwable t);

/**
 * Logs a message with trace log level.
 * @param message log this message
 */
void trace(Object message);

/**
 * Logs an error with trace log level.
 * @param message log this message
 * @param t log this cause
 */
void trace(Object message, Throwable t);

}
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1.50 spring-context 4.3.23

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package org.springframework.cache;

import java.util.concurrent.Callable;

/**
 * Interface that defines common cache operations.
 *<p>Note: Due to the generic use of caching, it is recommended that implementations allow storage of values (for example to cache methods that return @code null)).
 *
 * @author Costin Leau
 * @author Juergen Hoeller
 * @author Stephane Nicoll
 * @since 3.1
 */
public interface Cache {

/**
 * Return the cache name.
 */
String getName();

/**
 * Return the underlying native cache provider.
 */
Object getNativeCache();

/**
 * Return the value to which this cache maps the specified key.
 *<p>Returns @code null if the cache contains no mapping for this key;
 * otherwise, the cached value (which may be @code null) will be returned in a @link ValueWrapper].
 * @param key the key whose associated value is to be returned
 * @param the value to which this cache maps the specified key,
 * contained within a @link ValueWrapper] which may also hold
 * a cached @code null value. A straight @code null being
 * returned means that the cache contains no mapping for this key.
 */
* @see #get(Object, Class)
*/

ValueWrapper get(Object key);

/** *
 * Return the value to which this cache maps the specified key,
 * generically specifying a type that return value will be cast to.
 * Note: This variant of { @code get} does not allow for differentiating
 * between a cached { @code null} value and no cache entry found at all.
 * Use the standard { @link #get(Object)} variant for that purpose instead.
 * @param key the key whose associated value is to be returned
 * @param type the required type of the returned value (may be
 * { @code null} to bypass a type check; in case of a { @code null}
 * value found in the cache, the specified type is irrelevant)
 * @return the value to which this cache maps the specified key
 * (which may be { @code null} itself), or also { @code null} if
 * the cache contains no mapping for this key
 * @throws IllegalStateException if a cache entry has been found
 * but failed to match the specified type
 * @since 4.0
 * @see #get(Object)
 */

<T> T get(Object key, Class<T> type);

/** *
 * Return the value to which this cache maps the specified key, obtaining
 * that value from { @code valueLoader} if necessary. This method provides
 * a simple substitute for the conventional “if cached, return; otherwise
 * create, cache and return” pattern.
 * If possible, implementations should ensure that the loading operation
 * is synchronized so that the specified { @code valueLoader} is only called
 * once in case of concurrent access on the same key.
 * If the { @code valueLoader} throws an exception, it is wrapped in
 * a { @link ValueRetrievalException}
 * @param key the key whose associated value is to be returned
 * @return the value to which this cache maps the specified key
 * @throws ValueRetrievalException if the { @code valueLoader} throws an exception
 * @since 4.3
 */

<T> T get(Object key, Callable<T> valueLoader);

/** *
 * Associate the specified value with the specified key in this cache.
 * If the cache previously contained a mapping for this key, the old
 * value is replaced by the specified value.
 * @param key the key with which the specified value is to be associated
 * @param value the value to be associated with the specified key
 */
void put(Object key, Object value);

/**
 * Atomically associate the specified value with the specified key in this cache
 * if it is not set already.
 * <p>This is equivalent to:
 * <pre><code>
 * Object existingValue = cache.get(key);
 * if (existingValue == null) {
 *     cache.put(key, value);
 *     return null;
 * } else {
 *     return existingValue;
 * }
 * </code></pre>
 * except that the action is performed atomically. While all out-of-the-box
 * implementations are able to perform the put atomically,
 * the operation may also be implemented in two steps, e.g. with a check for
 * presence and a subsequent put, in a non-atomic way. Check the documentation
 * of the native cache implementation that you are using for more details.
 * @param key the key with which the specified value is to be associated
 * @param value the value to be associated with the specified key
 * @return the value to which this cache maps the specified key (which may be
 * null), or also null if the cache did not contain any
 * mapping for that key prior to this call. Returning null is therefore
 * an indicator that the given value has been associated with the key.
 * @since 4.1
 */
ValueWrapper putIfAbsent(Object key, Object value);

/**
 * Evict the mapping for this key from this cache if it is present.
 * @param key the key whose mapping is to be removed from the cache
 */
void evict(Object key);

/**
 * Remove all mappings from the cache.
 */
void clear();

/**
 * A (wrapper) object representing a cache value.
 */
interface ValueWrapper {

/**
* Return the actual value in the cache.
 */
Object get();
}

/**
 * Wrapper exception to be thrown from { @link #get(Object, Callable) }
 * in case of the value loader callback failing with an exception.
 * @since 4.3
 */
@SuppressWarnings("serial")
class ValueRetrievalException extends RuntimeException {

private final Object key;

public ValueRetrievalException(Object key, Callable<?> loader, Throwable ex) {
    super(String.format("Value for key '%s' could not be loaded using '%s'", key, loader), ex);
    this.key = key;
}

public Object getKey() {
    return this.key;
}

}

1.51 jjwt 0.4

1.52 whatwg-fetch 2.0.3

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1.53 spring-boot-starter-tomcat
1.5.9.RELEASE

1.54 log4j-slf4j-impl 2.11.2
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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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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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1.69 redux 3.7.2

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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.
- **BCodec**: Identical to the Base64 encoding defined by RFC 1521 and allows a character set to be specified. Issue: 26617. Thanks to Oleg Kalnichevski.
- **QCodec**: 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.
- **Soundex**: Implemented the DIFFERENCE algorithm. Issue: 25243. Thanks to Matthew Inger.

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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1.71 log4j-api 2.8.2

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1.75 hibernate-core 3.3.0 SP1

1.75.1 Available under license :

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     *
     */

package org.hibernate.bytecode.cglib;

import java.lang.reflect.Modifier;
import org.hibernate.repackage.cglib.beans.BulkBean;
import org.hibernate.repackage.cglib.beans.BulkBeanException;
import org.hibernate.repackage.cglib.reflect.FastClass;
import org.hibernate.slf4j.Logger;
import org.hibernate.slf4j.LoggerFactory;
import org.hibernate.bytecode.BytecodeProvider;
import org.hibernate.bytecode.ProxyFactoryFactory;
import org.hibernate.bytecode.ReflectionOptimizer;
import org.hibernate.bytecode.util.FieldFilter;
import org.hibernate.util.StringHelper;

/**
 * Bytecode provider implementation for CGLIB.
 * 
 * @author Steve Ebersole
 */
public class BytecodeProviderImpl implements BytecodeProvider {

private static final Logger log = LoggerFactory.getLogger( BytecodeProviderImpl.class );

public BytecodeProviderImpl() {
log.warn( "The CGLIB BytecodeProvider impl is considered deprecated and not recommended for use" );
}

public ProxyFactoryFactory getProxyFactoryFactory() {
return new ProxyFactoryFactoryImpl();
}

public ReflectionOptimizer getReflectionOptimizer(
    Class clazz,
    String[] getterNames,
    String[] setterNames,
    Class[] types) {
FastClass fastClass;
BulkBean bulkBean;
try {   
    fastClass = FastClass.create( clazz );
bulkBean = BulkBean.create( clazz, getterNames, setterNames, types );
if ( !clazz.isInterface() && !Modifier.isAbstract( clazz.getModifiers() ) ) {
    if ( fastClass == null ) {
        bulkBean = null;
    }
else {
    //test out the optimizer:
    Object instance = fastClass.newInstance();
bulkBean.setPropertyValues( instance, bulkBean.getPropertyValues( instance ) );
}
}
catch( Throwable t ) {
    fastClass = null;
    bulkBean = null;
    String message = "reflection optimizer disabled for: " +
    clazz.getName() +
    " [" +
    StringHelper.unqualify( t.getClass().getName() ) +
    ",: " +
    t.getMessage();

    if (t instanceof BulkBeanException) {
        int index = ( (BulkBeanException) t ).getIndex();
        if (index >= 0) {
            message += " (property " + setterNames[index] + ")";
        }
    }

    log.debug( message );
}

if ( fastClass != null && bulkBean != null ) {
    return new ReflectionOptimizerImpl(;
        new InstantiationOptimizerAdapter( fastClass ),
        new AccessOptimizerAdapter( bulkBean, clazz )
    );
} else {
    return null;
}

public org.hibernate.bytecode.ClassTransformer getTransformer(org.hibernate.bytecode.util.ClassFilter classFilter, FieldFilter fieldFilter) {
    return new CglibClassTransformer( classFilter, fieldFilter )
};

/*
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* 51 Franklin Street, Fifth Floor
* Boston, MA 02110-1301 USA
*
*/

package org.hibernate.bytecode.cglib;

import org.hibernate.bytecode.ReflectionOptimizer;

import java.io.Serializable;

/**
 * ReflectionOptimizer implementation for CGLIB.
 * @author Steve Ebersole
 */
public class ReflectionOptimizerImpl implements ReflectionOptimizer, Serializable {

    private transient InstantiationOptimizerAdapter instantiationOptimizer;
    private transient AccessOptimizerAdapter accessOptimizer;

    public ReflectionOptimizerImpl(InstantiationOptimizerAdapter instantiationOptimizer,
        AccessOptimizerAdapter accessOptimizer) {
        this.instantiationOptimizer = instantiationOptimizer;
        this.accessOptimizer = accessOptimizer;
    }

    public InstantiationOptimizer getInstantiationOptimizer() {
        return instantiationOptimizer;
    }

    public AccessOptimizer getAccessOptimizer() {
        return accessOptimizer;
    }

} /*
 * Hibernate, Relational Persistence for Idiomatic Java
 *
package org.hibernate.bytecode.javassist;

import org.hibernate.bytecode.ProxyFactoryFactory;
import org.hibernate.bytecode.BasicProxyFactory;
import org.hibernate.proxy.ProxyFactory;
import org.hibernate.proxy.pojo.javassist.JavassistProxyFactory;
import org.hibernate.AssertionFailure;
import org.hibernate.HibernateException;
import javassist.util.proxy.MethodFilter;
import javassist.util.proxy.ProxyObject;
import java.lang.reflect.Method;
import java.util.HashMap;

/**
 * A factory for Javassist-based {@link ProxyFactory} instances.
 * 
 * @author Steve Ebersole
 */
public class ProxyFactoryFactoryImpl implements ProxyFactoryFactory {

/**
 * Builds a Javassist-based proxy factory.
 * 
 * @return a new Javassist-based proxy factory.
 */
public ProxyFactory buildProxyFactory() {
    return new JavassistProxyFactory();
}

public BasicProxyFactory buildBasicProxyFactory(Class superClass, Class[] interfaces) {
    return new BasicProxyFactoryImpl( superClass, interfaces );
}

private static class BasicProxyFactoryImpl implements BasicProxyFactory {
    private final Class proxyClass;

    public BasicProxyFactoryImpl(Class superClass, Class[] interfaces) {
        if ( superClass == null && ( interfaces == null || interfaces.length < 1 ) ) {
            throw new AssertionFailure( "attempting to build proxy without any superclass or interfaces" );
        }
        javassist.util.proxy.ProxyFactory factory = new javassist.util.proxy.ProxyFactory();
        factory.setFilter( FINALIZE_FILTER );
        if ( superClass != null ) {
            factory.setSuperclass( superClass );
        }
        if ( interfaces != null && interfaces.length > 0 ) {
            factory.setInterfaces( interfaces );
        }
        proxyClass = factory.createClass();
    }

    public Object getProxy() {
        try {
            ProxyObject proxy = ( ProxyObject ) proxyClass.newInstance();
            proxy.setHandler( new PassThroughHandler( proxy, proxyClass.getName() ) );
            return proxy;
        } catch ( Throwable t ) {
            throw new HibernateException( "Unable to instantiated proxy instance" );
        }
    }

    public boolean isInstance(Object object) {
        return proxyClass.isInstance( object );
    }
}

private static final MethodFilter FINALIZE_FILTER = new MethodFilter() {
    public boolean isHandled(Method m) {
        // skip finalize methods
        return !( m.getParameterTypes().length == 0 && m.getName().equals( "finalize" ) );
    }
};
private static class PassThroughHandler implements MethodHandler {
    private HashMap data = new HashMap();
    private final Object proxiedObject;
    private final String proxiedClassName;

    public PassThroughHandler(Object proxiedObject, String proxiedClassName) {
        this.proxiedObject = proxiedObject;
        this.proxiedClassName = proxiedClassName;
    }

    public Object invoke(Object object, Method method, Method method1, Object[] args) throws Exception {
        String name = method.getName();
        if ("toString".equals( name ) ) {
            return proxiedClassName + "@" + System.identityHashCode( object );
        }
        else if ("equals".equals( name ) ) {
            return proxiedObject == object ? Boolean.TRUE : Boolean.FALSE;
        }
        else if ("hashCode".equals( name ) ) {
            return new Integer( System.identityHashCode( object ) );
        }
        boolean hasGetterSignature = method.getParameterTypes().length == 0 && method.getReturnType() != null;
        boolean hasSetterSignature = method.getParameterTypes().length == 1 && ( method.getReturnType() == null ||
        method.getReturnType() == void.class );
        if (name.startsWith("get") && hasGetterSignature) {
            String propName = name.substring(3);
            return data.get(propName);
        }
        else if (name.startsWith("is") && hasGetterSignature) {
            String propName = name.substring(2);
            return data.get(propName);
        }
        else if (name.startsWith("set") && hasSetterSignature) {
            String propName = name.substring(3);
            data.put(propName, args[0]);
            return null;
        }
        else {
            // todo : what else to do here?
            return null;
        }
    }
}
package org.hibernate.cache.access;

/**
 * Moved up from inner definition on the now deprecated
 * [{@link org.hibernate.cache.CacheConcurrencyStrategy}].
 *
 * @author Steve Ebersole
 */

public interface SoftLock {
}

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 * along with this distribution; if not, write to:
 * Free Software Foundation, Inc.
 * 51 Franklin Street, Fifth Floor
 * Boston, MA 02110-1301 USA
 *
 */

package org.hibernate.bytecode;
import org.hibernate.bytecode.util.ClassFilter;
import org.hibernate.bytecode.util.FieldFilter;
import java.security.ProtectionDomain;

/**
 * Basic implementation of the {@link ClassTransformer} contract.
 * @author Emmanuel Bernard
 * @author Steve Ebersole
 */
public abstract class AbstractClassTransformerImpl implements ClassTransformer {

protected final ClassFilter classFilter;
protected final FieldFilter fieldFilter;

protected AbstractClassTransformerImpl(ClassFilter classFilter, FieldFilter fieldFilter) {
    this.classFilter = classFilter;
    this.fieldFilter = fieldFilter;
}

public byte[] transform(
    ClassLoader loader,
    String className,
    Class classBeingRedefined,
    ProtectionDomain protectionDomain,
    byte[] classfileBuffer) {
    // to be safe...
    className = className.replace( '/', '.' );
    if ( classFilter.shouldInstrumentClass( className ) ) {
        return doTransform( loader, className, classBeingRedefined, protectionDomain, classfileBuffer );
    }
    else {
        return classfileBuffer;
    }
}
protected abstract byte[] doTransform(
    ClassLoader loader,
    String className,
    Class classBeingRedefined,
    ProtectionDomain protectionDomain,
    byte[] classfileBuffer);
}

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 * Free Software Foundation, Inc.
 * 51 Franklin Street, Fifth Floor
 * Boston, MA 02110-1301 USA
 *
 */

package org.hibernate.bytecode.cglib;

import org.hibernate.bytecode.ProxyFactoryFactory;
import org.hibernate.bytecode.BasicProxyFactory;
import org.hibernate.proxy.ProxyFactory;
import org.hibernate.proxy.pojo.cglib.CGLIBProxyFactory;
import org.hibernate.AssertionFailure;
import org.hibernate.HibernateException;
import org.hibernate.repackage.cglib.proxy.Enhancer;
import org.hibernate.repackage.cglib.proxy.CallbackFilter;
import org.hibernate.repackage.cglib.proxy.MethodInterceptor;
import org.hibernate.repackage.cglib.proxy.NoOp;
import org.hibernate.repackage.cglib.proxy.Callback;
import org.hibernate.repackage.cglib.proxy.Factory;
import java.lang.reflect.Method;
import java.util.HashMap;

/**
 * A factory for CGLIB-based {@link ProxyFactory} instances.
 *
 * @author Steve Ebersole
 */
public class ProxyFactoryFactoryImpl implements ProxyFactoryFactory {

/**
 * Builds a CGLIB-based proxy factory.
 *
 * @return a new CGLIB-based proxy factory.
 */
public ProxyFactory buildProxyFactory() {
return new CGLIBProxyFactory();
}

public BasicProxyFactory buildBasicProxyFactory(Class superClass, Class[] interfaces) {
return new BasicProxyFactoryImpl( superClass, interfaces );
}

public static class BasicProxyFactoryImpl implements BasicProxyFactory {
private final Class proxyClass;
private final Factory factory;

public BasicProxyFactoryImpl(Class superClass, Class[] interfaces) {
if ( superClass == null && ( interfaces == null || interfaces.length < 1 ) ) {
throw new AssertionFailure( "attempting to build proxy without any superclass or interfaces" );
}

Enhancer en = new Enhancer();
en.setUseCache( false );
en.setInterceptorDuringConstruction( false );
en.setUseFactory( true );
en.setCallbackTypes( CALLBACK_TYPES );
en.setCallbackFilter( FINALIZE_FILTER );
if ( superClass != null ) {
en.setSuperclass( superClass );
}
if ( interfaces != null && interfaces.length > 0 ) {
en.setInterfaces( interfaces );
}
proxyClass = en.createClass();
try {
factory = ( Factory ) proxyClass.newInstance();
catch ( Throwable t ) {
    throw new HibernateException( "Unable to build CGLIB Factory instance" );
}

public Object getProxy() {
    try {
        return factory.newInstance(
            new Callback[] { new PassThroughInterceptor( proxyClass.getName() ), NoOp.INSTANCE }
        );
    } catch ( Throwable t ) {
        throw new HibernateException( "Unable to instantiate proxy instance" );
    }
}

private static final CallbackFilter FINALIZE_FILTER = new CallbackFilter() {
    public int accept(Method method) {
        if ( method.getParameterTypes().length == 0 && method.getName().equals("finalize") ){
            return 1;
        } else {
            return 0;
        }
    }
};

private static final Class[] CALLBACK_TYPES = new Class[] { MethodInterceptor.class, NoOp.class };

private static class PassThroughInterceptor implements MethodInterceptor {
    private HashMap data = new HashMap();
    private final String proxiedClassName;
    public PassThroughInterceptor(String proxiedClassName) {
        this.proxiedClassName = proxiedClassName;
    }
    public Object intercept(
            Object obj,
            Method method,
            Object[] args,
            MethodProxy proxy) throws Throwable {
        String name = method.getName();
        if ( "toString".equals( name ) ) {
            return proxiedClassName + "@" + System.identityHashCode( obj );
        }
else if ( "equals".equals( name ) ) {
    return args[0] instanceof Factory && ((Factory)args[0]).getCallback(0) == this
        ? Boolean.TRUE
        : Boolean.FALSE;
}
else if ( "hashCode".equals( name ) ) {
    return new Integer( System.identityHashCode( obj ) );
}
boolean hasGetterSignature = method.getParameterTypes().length == 0 && method.getReturnType() != null;
boolean hasSetterSignature = method.getParameterTypes().length == 1 && (method.getReturnType() == null ||
    method.getReturnType() == void.class);
if ( name.startsWith( "get" ) && hasGetterSignature ) {
    String propName = name.substring( 3 );
    return data.get( propName );
}
else if ( name.startsWith( "is" ) && hasGetterSignature ) {
    String propName = name.substring( 2 );
    return data.get( propName );
}
else if ( name.startsWith( "set" ) && hasSetterSignature ) {
    String propName = name.substring( 3 );
    data.put( propName, args[0] );
    return null;
}
else {
    // todo : what else to do here?
    return null;
}

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 */
import java.lang.reflect.Modifier;

import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import org.hibernate.bytecode.BytecodeProvider;
import org.hibernate.bytecode.ClassTransformer;
import org.hibernate.bytecode.ProxyFactoryFactory;
import org.hibernate.bytecode.ReflectionOptimizer;
import org.hibernate.bytecode.util.ClassFilter;
import org.hibernate.bytecode.util.FieldFilter;
import org.hibernate.util.StringHelper;

/**
 * Bytecode provider implementation for Javassist.
 *
 * @author Steve Ebersole
 */
public class BytecodeProviderImpl implements BytecodeProvider {

    private static final Logger log = LoggerFactory.getLogger(BytecodeProviderImpl.class);

    public ProxyFactoryFactory getProxyFactoryFactory() {
        return new ProxyFactoryFactoryImpl();
    }

    public ReflectionOptimizer getReflectionOptimizer(
            Class clazz,
            String[] getterNames,
            String[] setterNames,
            Class[] types) {
        FastClass fastClass;
        BulkAccessor bulkAccessor;
        try {
            fastClass = FastClass.create( clazz );
            bulkAccessor = BulkAccessor.create( clazz, getterNames, setterNames, types );
            if ( !clazz.isInterface() && !Modifier.isAbstract( clazz.getModifiers() ) ) {
                if ( fastClass == null ) {
                    bulkAccessor = null;
                }
            }
        }
    }
}
else {
    // test out the optimizer:
    Object instance = fastClass.newInstance();
    bulkAccessor.setPropertyValues( instance, bulkAccessor.getPropertyValues( instance ) );
    }
    }
    }
    catch ( Throwable t ) {
    fastClass = null;
    bulkAccessor = null;
    String message = "reflection optimizer disabled for: " +
    clazz.getName() +
    " [" +
    StringHelper.unqualify( t.getClass().getName() ) +
    "; " +
    t.getMessage();

    if ( t instanceof BulkAccessorException ) {
    int index = ( ( BulkAccessorException ) t ).getIndex();
    if ( index >= 0 ) {
    message += " (property " + setterNames[index] + ")";
    }
    }

    log.debug( message );
    }

    if ( fastClass != null && bulkAccessor != null ) {
    return new ReflectionOptimizerImpl(
        new InstantiationOptimizerAdapter( fastClass ),
        new AccessOptimizerAdapter( bulkAccessor, clazz )
    );
    }
    else {
    return null;
    }
}

public ClassTransformer getTransformer(ClassFilter classFilter, FieldFilter fieldFilter) {
    return new JavassistClassTransformer( classFilter, fieldFilter );
}

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*
*/
package org.hibernate.bytecode.javassist;

import org.hibernate.bytecode.javassist.ReflectionOptimizer;

import java.io.Serializable;

/**
 * ReflectionOptimizer implementation for Javassist.
 *
 * @author Steve Ebersole
 */
public class ReflectionOptimizerImpl implements ReflectionOptimizer, Serializable {

private final InstantiationOptimizer instantiationOptimizer;
private final AccessOptimizer accessOptimizer;

public ReflectionOptimizerImpl(
InstantiationOptimizer instantiationOptimizer,
   AccessOptimizer accessOptimizer) {
   this.instantiationOptimizer = instantiationOptimizer;
   this.accessOptimizer = accessOptimizer;
}

public InstantiationOptimizer getInstantiationOptimizer() {
   return instantiationOptimizer;
}

public AccessOptimizer getAccessOptimizer() {
   return accessOptimizer;
}
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package org.hibernate.cache.impl;

import java.util.Comparator;
import org.hibernate.cache.CacheDataDescription;
import org.hibernate.mapping.PersistentClass;
import org.hibernate.mapping.Collection;
import org.hibernate.type.VersionType;

/**
 * @inheritDoc
 *
 * @author Steve Ebersole
 */

public class CacheDataDescriptionImpl implements CacheDataDescription {
    private final boolean mutable;
    private final boolean versioned;
    private final Comparator versionComparator;

    public CacheDataDescriptionImpl(boolean mutable, boolean versioned, Comparator versionComparator) {
        this.mutable = mutable;
        this.versioned = versioned;
        this.versionComparator = versionComparator;
    }

    public CacheDataDescriptionImpl(boolean mutable, boolean versioned, Comparator versionComparator) {
        this.mutable = mutable;
        this.versioned = versioned;
        this.versionComparator = versionComparator;
    }
}
this.versioned = versioned;
this.versionComparator = versionComparator;
}

public boolean isMutable() {
return mutable;
}

public boolean isVersioned() {
return versioned;
}

public Comparator getVersionComparator() {
return versionComparator;
}

public static CacheDataDescriptionImpl decode(PersistentClass model) {
return new CacheDataDescriptionImpl(
model.isMutable(),
model.isVersioned(),
model.isVersioned() ? ( ( VersionType ) model.getVersion().getType() ).getComparator() : null
);
}

public static CacheDataDescriptionImpl decode(Collection model) {
return new CacheDataDescriptionImpl(
model.isMutable(),
model.getOwner().isVersioned(),
model.getOwner().isVersioned() ? ( ( VersionType ) model.getOwner().getVersion().getType() ).getComparator() : null
);
}

1.76 mongo-java-driver 3.4.0
1.76.1 Available under license:

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

<link rel="apple-touch-icon" sizes="57x57" href="/favicons/apple-touch-icon-57x57.png">
<link rel="apple-touch-icon" sizes="60x60" href="/favicons/apple-touch-icon-60x60.png">
<link rel="apple-touch-icon" sizes="72x72" href="/favicons/apple-touch-icon-72x72.png">
<link rel="apple-touch-icon" sizes="76x76" href="/favicons/apple-touch-icon-76x76.png">
<link rel="apple-touch-icon" sizes="114x114" href="/favicons/apple-touch-icon-114x114.png">
<link rel="apple-touch-icon" sizes="120x120" href="/favicons/apple-touch-icon-120x120.png">
<link rel="apple-touch-icon" sizes="144x144" href="/favicons/apple-touch-icon-144x144.png">
<link rel="apple-touch-icon" sizes="152x152" href="/favicons/apple-touch-icon-152x152.png">
<link rel="apple-touch-icon" sizes="180x180" href="/favicons/apple-touch-icon-180x180.png">
<link rel="icon" type="image/png" href="/favicons/favicon-32x32.png" sizes="32x32">
<link rel="icon" type="image/png" href="/favicons/favicon-194x194.png" sizes="194x194">
<link rel="icon" type="image/png" href="/favicons/favicon-96x96.png" sizes="96x96">
<link rel="icon" type="image/png" href="/favicons/android-chrome-192x192.png" sizes="192x192">
<link rel="icon" type="image/png" href="/favicons/favicon-16x16.png" sizes="16x16">
<link rel="manifest" href="/favicons/manifest.json">
<link rel="shortcut icon" href="/favicons/favicon.ico">
<meta name="msapplication-TileColor" content="#603cba">
<meta name="msapplication-TileImage" content="/favicons/mstile-144x144.png">
<meta name="msapplication-config" content="/favicons/browserconfig.xml">
<meta name="theme-color" content="#303284">
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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>
</div>
</nav>
</header>

</body>
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 */

package org.springframework.jdbc;

import java.sql.SQLException;

import org.springframework.dao.InvalidDataAccessResourceUsageException;

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/**
* Exception thrown when SQL specified is invalid. Such exceptions always have
* a {@code java.sql.SQLException} root cause.
*
* <p>It would be possible to have subclasses for no such table, no such column etc.
* A custom SQLExceptionTranslator could create such more specific exceptions,
* without affecting code using this class.
*
* @author Rod Johnson
* @see InvalidResultSetAccessException
*/
@SuppressWarnings("serial")
public class BadSqlGrammarException extends InvalidDataAccessResourceUsageException {
private String sql;

/**
* Constructor for BadSqlGrammarException.
* @param task name of current task
* @param sql the offending SQL statement
* @param ex the root cause
*/
public BadSqlGrammarException(String task, String sql, SQLException ex) {
super(task + "; bad SQL grammar [" + sql + "]", ex);
this.sql = sql;
}

/**
* Return the wrapped SQLException.
*/
public SQLException getSQLException() {
return (SQLException) getCause();
}
/**
* Return the SQL that caused the problem.
*/
public String getSql() {
return this.sql;
}
}

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1.83 spring-retry 1.0.1
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1.85 spring-web-mvc 5.1.6

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 */

docs\org.springframework.web.servlet;

/**
 * Provides additional information about a View such as whether it
 * performs redirects.
 *
 * @author Rossen Stoyanchev
 * @since 3.1
 */
public interface SmartView extends View {

 /**
 * Whether the view performs a redirect.
 */
 boolean isRedirectView();
}

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1.93 log4j-core 2.11.2

1.94 spring-context 4.3.13

1.95 jackson-core 2.10.0.pr2
1.95.1 Available under license:

# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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1.96 spring-beans 5.0.12
package org.springframework.beans;

import java.beans.PropertyChangeEvent;
import java.lang.reflect.Array;
import java.lang.reflect.Constructor;
import java.lang.reflect.InvocationTargetException;
import java.lang.reflect.Modifier;
import java.lang.reflect.UndeclaredThrowableException;
import java.security.PrivilegedActionException;
import java.util.ArrayList;
import java.util.Collection;
import java.util.HashMap;
import java.util.Iterator;
import java.util.List;
import java.util.Map;
import java.util.Optional;
import java.util.Set;
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.springframework.core.CollectionFactory;
import org.springframework.core.ResolvableType;
import org.springframework.core.convert.ConversionException;
import org.springframework.core.convert.ConverterNotFoundException;
import org.springframework.core.convert.TypeDescriptor;
import org.springframework.lang.Nullable;
import org.springframework.util.Assert;
import org.springframework.util.ObjectUtils;
import org.springframework.util.StringUtils;

1.96.1 Available under license:

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 */

package org.springframework.beans;

import java.beans.PropertyChangeEvent;
import java.lang.reflect.Array;
import java.lang.reflect.Constructor;
import java.lang.reflect.InvocationTargetException;
import java.lang.reflect.Modifier;
import java.lang.reflect.UndeclaredThrowableException;
import java.security.PrivilegedActionException;
import java.util.ArrayList;
import java.util.Collection;
import java.util.HashMap;
import java.util.Iterator;
import java.util.List;
import java.util.Map;
import java.util.Optional;
import java.util.Set;
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.springframework.core.CollectionFactory;
import org.springframework.core.ResolvableType;
import org.springframework.core.convert.ConversionException;
import org.springframework.core.convert.ConverterNotFoundException;
import org.springframework.core.convert.TypeDescriptor;
import org.springframework.lang.Nullable;
import org.springframework.util.Assert;
import org.springframework.util.ObjectUtils;
import org.springframework.util.StringUtils;
/**
 * A basic [ConfigurablePropertyAccessor] that provides the necessary
 * infrastructure for all typical use cases.
 *
 * This accessor will convert collection and array values to the corresponding
 * target collections or arrays, if necessary. Custom property editors that deal
 * with collections or arrays can either be written via PropertyEditor's
 * [setValue], or against a comma-delimited String via [setAsText],
 * as String arrays are converted in such a format if the array itself is not
 * assignable.
 *
 * @author Juergen Hoeller
 * @author Stephane Nicoll
 * @author Rod Johnson
 * @author Rob Harrop
 * @since 4.2
 * @see registerCustomEditor
 * @see setPropertyValues
 * @see setPropertyValue
 * @see getPropertyValue
 * @see getPropertyType
 * @see BeanWrapper
 * @see PropertyEditorRegistrySupport
 */
public abstract class AbstractNestablePropertyAccessor extends AbstractPropertyAccessor {

/**
 * We'll create a lot of these objects, so we don't want a new logger every time.
 */
private static final Log logger = LogFactory.getLog(AbstractNestablePropertyAccessor.class);

private int autoGrowCollectionLimit = Integer.MAX_VALUE;

@Nullable
Object wrappedObject;

private String nestedPath = "";

@Nullable
Object rootObject;

/** Map with cached nested Accessors: nested path -> Accessor instance */
@Nullable
private Map<String, AbstractNestablePropertyAccessor> nestedPropertyAccessors;

/**
 * Create a new empty accessor. Wrapped instance needs to be set afterwards.
 */
* Registers default editors.
* @see #setWrappedInstance
*
protected AbstractNestablePropertyAccessor() {
    this(true);
}

/**
 * Create a new empty accessor. Wrapped instance needs to be set afterwards.
 * @param registerDefaultEditors whether to register default editors
 * (can be suppressed if the accessor won't need any type conversion)
 * @see #setWrappedInstance
 */
protected AbstractNestablePropertyAccessor(boolean registerDefaultEditors) {
    if (registerDefaultEditors) {
        registerDefaultEditors();
    }
    this.typeConverterDelegate = new TypeConverterDelegate(this);
}

/**
 * Create a new accessor for the given object.
 * @param object object wrapped by this accessor
 */
protected AbstractNestablePropertyAccessor(Object object) {
    registerDefaultEditors();
    setWrappedInstance(object);
}

/**
 * Create a new accessor, wrapping a new instance of the specified class.
 * @param clazz class to instantiate and wrap
 */
protected AbstractNestablePropertyAccessor(Class<?> clazz) {
    registerDefaultEditors();
    setWrappedInstance(BeanUtils.instantiateClass(clazz));
}

/**
 * Create a new accessor for the given object,
 * registering a nested path that the object is in.
 * @param object object wrapped by this accessor
 * @param nestedPath the nested path of the object
 * @param rootObject the root object at the top of the path
 */
protected AbstractNestablePropertyAccessor(Object object, String nestedPath, Object rootObject) {
    registerDefaultEditors();
    setWrappedInstance(object, nestedPath, rootObject);
protected AbstractNestablePropertyAccessor(Object object, String nestedPath, AbstractNestablePropertyAccessor parent) {
    setWrappedInstance(object, nestedPath, parent.getWrappedInstance());
    setExtractOldValueForEditor(parent.isExtractOldValueForEditor());
    setAutoGrowNestedPaths(parent.isAutoGrowNestedPaths());
    setAutoGrowCollectionLimit(parent.getAutoGrowCollectionLimit());
    setConversionService(parent.getConversionService());
}

public void setAutoGrowCollectionLimit(int autoGrowCollectionLimit) {
    this.autoGrowCollectionLimit = autoGrowCollectionLimit;
}

public int getAutoGrowCollectionLimit() {
    return this.autoGrowCollectionLimit;
}

public void setWrappedInstance(Object object) {
    setWrappedInstance(object, "", null);
}

public void setWrappedInstance(Object object) {
    setWrappedInstance(object, "", null);
}
/**
 * @param rootObject the root object at the top of the path
 */
public void setWrappedInstance(Object object, @Nullable String nestedPath, @Nullable Object rootObject) {
    this.wrappedObject = ObjectUtils.unwrapOptional(object);
    Assert.notNull(this.wrappedObject, "Target object must not be null");
    this.nestedPath = (nestedPath != null ? nestedPath : "");
    this.rootObject = (!"".equals(this.nestedPath) ? rootObject : this.wrappedObject);
    this.nestedPropertyAccessors = null;
    this.typeConverterDelegate = new TypeConverterDelegate(this, this.wrappedObject);
}

public final Object getWrappedInstance() {
    Assert.state(this.wrappedObject != null, "No wrapped object");
    return this.wrappedObject;
}

public final Class<?> getWrappedClass() {
    return getWrappedInstance().getClass();
}

/**
 * Return the nested path of the object wrapped by this accessor.
 */
public final String getNestedPath() {
    return this.nestedPath;
}

/**
 * Return the root object at the top of the path of this accessor.
 * @see #getNestedPath
 */
public final Object getRootInstance() {
    Assert.state(this.rootObject != null, "No root object");
    return this.rootObject;
}

/**
 * Return the class of the root object at the top of the path of this accessor.
 * @see #getNestedPath
 */
public final Class<?> getRootClass() {
    return getRootInstance().getClass();
}

@Override
public void setPropertyValue(String propertyName, @Nullable Object value) throws BeansException {
    AbstractNestablePropertyAccessor nestedPa;
    try {
        // Method implementation...
    } catch (Exception e) {
        // Exception handling...
    }
}

@Override
public void setPropertyValue(String propertyName, @Nullable Object value) throws BeansException {
    AbstractNestablePropertyAccessor nestedPa;
    try {
        // Method implementation...
    } catch (Exception e) {
        // Exception handling...
    }
}

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nestedPa = getPropertyAccessorForPropertyPath(propertyName);
}
catch (NotReadablePropertyException ex) {
throw new NotWritablePropertyException(getRootClass(), this.nestedPath + propertyName,
"Nested property in path " + propertyName + ", does not exist", ex);
}
PropertyTokenHolder tokens = getPropertyNameTokens(getFinalPath(nestedPa, propertyName));
nestedPa.setPropertyValue(tokens, new PropertyValue(propertyName, value));
}

@Override
public void setPropertyValue(PropertyValue pv) throws BeansException {
PropertyTokenHolder tokens = (PropertyTokenHolder) pv.resolvedTokens;
if (tokens == null) {
String propertyName = pv.getName();
AbstractNestablePropertyAccessor nestedPa;
try {
nestedPa = getPropertyAccessorForPropertyPath(propertyName);
}
catch (NotReadablePropertyException ex) {
throw new NotWritablePropertyException(getRootClass(), this.nestedPath + propertyName,
"Nested property in path " + propertyName + ", does not exist", ex);
}
tokens = getPropertyNameTokens(getFinalPath(nestedPa, propertyName));
if (nestedPa == this) {
pv.getOriginalPropertyValue().resolvedTokens = tokens;
}
nestedPa.setPropertyValue(tokens, pv);
} else {
setPropertyValue(tokens, pv);
}

protected void setPropertyValue(PropertyTokenHolder tokens, PropertyValue pv) throws BeansException {
if (tokens.keys != null) {
processKeyedProperty(tokens, pv);
}
else {
processLocalProperty(tokens, pv);
}

@SuppressWarnings("unchecked")
private void processKeyedProperty(PropertyTokenHolder tokens, PropertyValue pv) {
Object propValue = getPropertyValue(holdingValue(tokens));
PropertyHandler ph = getLocalPropertyHandler(tokens.actualName);
if (ph == null) {

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throw new InvalidPropertyException(getRootClass(), this.nestedPath + tokens.actualName, "No property handler found");
}
Assert.state(tokens.keys != null, "No token keys");
String lastKey = tokens.keys[tokens.keys.length - 1];

if (propValue.getClass().isArray()) {
Class<?> requiredType = propValue.getClass().getComponentType();
int arrayIndex = Integer.parseInt(lastKey);
Object oldValue = null;
try {
if (isExtractOldValueForEditor() && arrayIndex < Array.getLength(propValue)) {
    oldValue = Array.get(propValue, arrayIndex);
}
Object convertedValue = convertIfNecessary(tokens.canonicalName, oldValue, pv.getValue(),
            requiredType, ph.nested(tokens.keys.length));
int length = Array.getLength(propValue);
if (arrayIndex >= length &
            arrayIndex < this.autoGrowCollectionLimit) {
Class<?> componentType = propValue.getClass().getComponentType();
Object newArray = Array.newInstance(componentType, arrayIndex + 1);
System.arraycopy(propValue, 0, newArray, 0, length);
setPropertyValue(tokens.actualName, newArray);
propValue = getPropertyValue(tokens.actualName);
}
Array.set(propValue, arrayIndex, convertedValue);
}
catch (IndexOutOfBoundsException ex) {
    throw new InvalidPropertyException(getRootClass(), this.nestedPath + tokens.canonicalName,
            "Invalid array index in property path \\
            " + tokens.canonicalName + \\
            ",

    ex);
}
else if (propValue instanceof List) {
Class<?> requiredType = ph.getCollectionType(tokens.keys.length);
List<Object> list = (List<Object>) propValue;
int index = Integer.parseInt(lastKey);
Object oldValue = null;
if (isExtractOldValueForEditor() && index < list.size()) {
    oldValue = list.get(index);
}
Object convertedValue = convertIfNecessary(tokens.canonicalName, oldValue, pv.getValue(),
            requiredType, ph.nested(tokens.keys.length));
int size = list.size();
if (index >= size &
            index < this.autoGrowCollectionLimit) {
for (int i = size; i < index; i++) {
    try {
        list.add(null);
    }
}
catch (NullPointerException ex) {
    throw new InvalidPropertyException(getRootClass(), this.nestedPath + tokens.canonicalName,
"Cannot set element with index " + index + " in List of size " + 
size + ", accessed using property path'' + tokens.canonicalName + 
'": List does not support filling up gaps with null elements");
}

list.add(convertedValue);

else {
    try {
        list.set(index, convertedValue);
    }
    catch (IndexOutOfBoundsException ex) {
        throw new InvalidPropertyException(getRootClass(), this.nestedPath + tokens.canonicalName,
"Invalid list index in property path'" + tokens.canonicalName + '''', ex);
    }
    
}

else if (propValue instanceof Map) {
    Class<?> mapKeyType = ph.getMapKeyType(tokens.keys.length);
    Class<?> mapValueType = ph.getMapValueType(tokens.keys.length);
    Map<Object, Object> map = (Map<Object, Object>) propValue;
    // IMPORTANT: Do not pass full property name in here - property editors
    // must not kick in for map keys but rather only for map values.
    TypeDescriptor typeDescriptor = TypeDescriptor.valueOf(mapKeyType);
    Object convertedMapKey = convertIfNecessary(null, null, lastKey, mapKeyType, typeDescriptor);
    Object oldValue = null;
    if (isExtractOldValueForEditor()) {
        oldValue = map.get(convertedMapKey);
    }
    // Pass full property name and old value in here, since we want full
    // conversion ability for map values.
    Object convertedMapValue = convertIfNecessary(tokens.canonicalName, oldValue, pv.getValue(),
    mapValueType, ph.nested(tokens.keys.length));
    map.put(convertedMapKey, convertedMapValue);
}

else {
    throw new InvalidPropertyException(getRootClass(), this.nestedPath + tokens.canonicalName,
"Property referenced in indexed property path'" + tokens.canonicalName + 
'" is neither an array nor a List nor a Map; returned value was [" + propValue + ""])";
}

private Object getPropertyHoldingValue(PropertyTokenHolder tokens) {
    // Apply indexes and map keys: fetch value for all keys but the last one.
Assert.state(tokens.keys != null, "No token keys");
PropertyTokenHolder getterTokens = new PropertyTokenHolder(tokens.actualName);
getterTokens.canonicalName = tokens.canonicalName;
getterTokens.keys = new String[tokens.keys.length - 1];
System.arraycopy(tokens.keys, 0, getterTokens.keys, 0, tokens.keys.length - 1);

Object propValue;
try {
    propValue = getPropertyValue(getterTokens);
} catch (NotReadablePropertyException ex) {
    throw new NotWritablePropertyException(getRootClass(), this.nestedPath + tokens.canonicalName,
    "Cannot access indexed value in property referenced " +
    "in indexed property path " + tokens.canonicalName + ": returned null");
}

if (propValue == null) {
    // null map value case
    if (isAutoGrowNestedPaths()) {
        int lastKeyIndex = tokens.canonicalName.lastIndexOf('[');
        getterTokens.canonicalName = tokens.canonicalName.substring(0, lastKeyIndex);
        propValue = setDefaultValue(getterTokens);
    } else {
        throw new NullValueInNestedPathException(getRootClass(), this.nestedPath + tokens.canonicalName,
        "Cannot access indexed value in property referenced " +
        "in indexed property path " + tokens.canonicalName + ": returned null");
    }
}
return propValue;

private void processLocalProperty(PropertyTokenHolder tokens, PropertyValue pv) {
    PropertyHandler ph = getLocalPropertyHandler(tokens.actualName);
    if (ph == null || !ph.isWritable()) {
        if (pv.isOptional()) {
            if (logger.isDebugEnabled()) {
                logger.debug("Ignoring optional value for property ", tokens.actualName +
                " - property not found on bean class ", getRootClass().getName() + "]");
            }
            return;
        } else {
            throw createNotWritablePropertyException(tokens.canonicalName);
        }
    }

    Object oldValue = null;
}
```java
try {
  Object originalValue = pv.getValue();
  Object valueToApply = originalValue;
  if (!Boolean.FALSE.equals(pv.conversionNecessary)) {
    if (pv.isConverted()) {
      valueToApply = pv.getConvertedValue();
    }
    else {
      if (isExtractOldValueForEditor() && ph.isReadable()) {
        try {
          oldValue = ph.getValue();
        }
        catch (Exception ex) {
          if (ex instanceof PrivilegedActionException) {
            ex = ((PrivilegedActionException) ex).getException();
          }
          if (logger.isDebugEnabled()) {
            logger.debug("Could not read previous value of property " +
                        this.nestedPath + tokens.canonicalName + ",", ex);
          }
        }
      }
      valueToApply = convertForProperty(
                        tokens.canonicalName, oldValue, originalValue, ph.toTypeDescriptor());
    }
    pv.getOriginalPropertyValue().conversionNecessary = (valueToApply != originalValue);
  }
  ph.setValue(valueToApply);
} catch (TypeMismatchException ex) {
  throw ex;
} catch (InvocationTargetException ex) {
  PropertyChangeEvent propertyChangeEvent = new PropertyChangeEvent(
    getRootInstance(), this.nestedPath + tokens.canonicalName, oldValue, pv.getValue());
  if (ex.getTargetException() instanceof ClassCastException) {
    throw new TypeMismatchException(propertyChangeEvent, ph.getPropertyType(), ex.getTargetException());
  } else {
    Throwable cause = ex.getTargetException();
    if (cause instanceof UndeclaredThrowableException) {
      // May happen e.g. with Groovy-generated methods
      cause = cause.getCause();
    }
    throw new MethodInvocationException(propertyChangeEvent, cause);
  }
} catch (Exception ex) {
  throw ex;
}
```

PropertyChangeEvent pce = new PropertyChangeEvent(
  getRootInstance(), this.nestedPath + tokens.canonicalName, oldValue, pv.getValue());
throw new MethodInvocationException(pce, ex);
}

@Override
@Nullable
public Class<?> getPropertyType(String propertyName) throws BeansException {
try {
  PropertyHandler ph = getPropertyHandler(propertyName);
  if (ph != null) {
    return ph.getPropertyType();
  }
  else {
    // Maybe an indexed/mapped property...
    Object value = getPropertyValue(propertyName);
    if (value != null) {
      return value.getClass();
    }
    // Check to see if there is a custom editor,
    // which might give an indication on the desired target type.
    Class<?> editorType = guessPropertyTypeFromEditors(propertyName);
    if (editorType != null) {
      return editorType;
    }
  }
  catch (InvalidPropertyException ex) {
    // Consider as not determinable.
  }
  return null;
}

@Override
@Nullable
public TypeDescriptor getPropertyTypeDescriptor(String propertyName) throws BeansException {
try {
  AbstractNestablePropertyAccessor nestedPa = getPropertyAccessorForPropertyPath(propertyName);
  String finalPath = getFinalPath(nestedPa, propertyName);
  PropertyTokenHolder tokens = getPropertyNameTokens(finalPath);
  PropertyHandler ph = nestedPa.getLocalPropertyHandler(tokens.actualName);
  if (ph != null) {
    if (tokens.keys != null) {
      if (ph.isReadable() || ph.isWritable()) {
        return ph.nested(tokens.keys.length);
      }
    }
  }
  catch (InvalidPropertyException ex) {
    // Consider as not determinable.
  }
  return null;
}
else {
    if (ph.isReadable() || ph.isWritable()) {
        return ph.toTypeDescriptor();
    }
}

catch (InvalidPropertyException ex) {
    // Consider as not determinable.
    return null;
}

@Override
public boolean isReadableProperty(String propertyName) {
    try {
        PropertyHandler ph = getPropertyHandler(propertyName);
        if (ph != null) {
            return ph.isReadable();
        } else {
            // Maybe an indexed/mapped property...
            getPropertyValue(propertyName);
            return true;
        }
    }
    catch (InvalidPropertyException ex) {
        // Cannot be evaluated, so can't be readable.
    }
    return false;
}

@Override
public boolean isWritableProperty(String propertyName) {
    try {
        PropertyHandler ph = getPropertyHandler(propertyName);
        if (ph != null) {
            return ph.isWritable();
        } else {
            // Maybe an indexed/mapped property...
            getPropertyValue(propertyName);
            return true;
        }
    }
    catch (InvalidPropertyException ex) {
        // Cannot be evaluated, so can't be writable.
    }
}
return false;
}

@Nullable
private Object convertIfNecessary(@Nullable String propertyName, @Nullable Object oldValue, @Nullable Object newValue, @Nullable Class<?> requiredType, @Nullable TypeDescriptor td) throws TypeMismatchException {

Assert.state(this.typeConverterDelegate != null, "No TypeConverterDelegate");
try {
return this.typeConverterDelegate.convertIfNecessary(propertyName, oldValue, newValue, requiredType, td);
} catch (ConverterNotFoundException | IllegalStateException ex) {
    PropertyChangeEvent pce = new PropertyChangeEvent(getRootInstance(), this.nestedPath + propertyName, oldValue, newValue);
    throw new ConversionNotSupportedException(pce, requiredType, ex);
} catch (ConversionException | IllegalArgumentException ex) {
    PropertyChangeEvent pce = new PropertyChangeEvent(getRootInstance(), this.nestedPath + propertyName, oldValue, newValue);
    throw new TypeMismatchException(pce, requiredType, ex);
}

@Nullable
protected Object convertForProperty(String propertyName, @Nullable Object oldValue, @Nullable Object newValue, TypeDescriptor td) throws TypeMismatchException {

return convertIfNecessary(propertyName, oldValue, newValue, td.getType(), td);
}

@Override
@Nullable
public Object getPropertyValue(String propertyName) throws BeansException {
    AbstractNestablePropertyAccessor nestedPa = getPropertyAccessorForPropertyPath(propertyName);
    PropertyTokenHolder tokens = getPropertyNameTokens(getFinalPath(nestedPa, propertyName));
    return nestedPa.getPropertyValue(tokens);
}

@SuppressWarnings("unchecked")
@Nullable
protected Object getPropertyValue(PropertyTokenHolder tokens) throws BeansException {
    String propertyName = tokens.canonicalName;
    String actualName = tokens.actualName;
    PropertyHandler ph = getLocalPropertyHandler(actualName);
    if (ph == null || !ph.isReadable()) {
        throw new NotReadablePropertyException(getRootClass(), this.nestedPath + propertyName);
    }

    return convertIfNecessary(propertyName, oldValue, newValue, td.getType(), td);
}

@Nullable
public Object getPropertyValue(PropertyTokenHolder tokens) throws BeansException {
    String propertyName = tokens.canonicalName;
    String actualName = tokens.actualName;
    PropertyHandler ph = getLocalPropertyHandler(actualName);
    if (ph == null || !ph.isReadable()) {
        throw new NotReadablePropertyException(getRootClass(), this.nestedPath + propertyName);
    }

    return convertIfNecessary(propertyName, oldValue, newValue, td.getType(), td);
}
try {
    Object value = ph.getValue();
    if (tokens.keys != null) {
        if (value == null) {
            if (isAutoGrowNestedPaths()) {
                value = setDefaultValue(new PropertyTokenHolder(tokens.actualName));
            } else {
                throw new NullValueInNestedPathException(getRootClass(), this.nestedPath + propertyName,
                        "Cannot access indexed value of property referenced in indexed " +
                        "property path " + propertyName + ": returned null");
            }
            StringBuilder indexedPropertyName = new StringBuilder(tokens.actualName);
            // apply indexes and map keys
            for (int i = 0; i < tokens.keys.length; i++) {
                String key = tokens.keys[i];
                if (value == null) {
                    throw new NullValueInNestedPathException(getRootClass(), this.nestedPath + propertyName,
                            "Cannot access indexed value of property referenced in indexed " +
                            "property path " + propertyName + ": returned null");
                } else if (value.getClass().isArray()) {
                    int index = Integer.parseInt(key);
                    value = growArrayIfNecessary(value, index, indexedPropertyName.toString());
                    value = Array.get(value, index);
                } else if (value instanceof List) {
                    int index = Integer.parseInt(key);
                    List<Object> list = (List<Object>) value;
                    growCollectionIfNecessary(list, index, indexedPropertyName.toString(), ph, i + 1);
                    value = list.get(index);
                } else if (value instanceof Set) {
                    // Apply index to Iterator in case of a Set.
                    Set<Object> set = (Set<Object>) value;
                    int index = Integer.parseInt(key);
                    if (index < 0 || index >= set.size()) {
                        throw new InvalidPropertyException(getRootClass(), this.nestedPath + propertyName,
                                "Cannot get element with index " + index + " from Set of size " +
                                set.size() + ", accessed using property path " + propertyName + "");
                    }
                    Iterator<Object> it = set.iterator();
                    for (int j = 0; it.hasNext(); j++) {
                        Object elem = it.next();
                        if (j == index) {
                            value = elem;
                        }
                    }
                }
            }
        }
    }
}
else if (value instanceof Map) {
    Map<Object, Object> map = (Map<Object, Object>) value;
    Class<?> mapKeyType = ph.getResolvableType().getNested(i + 1).asMap().resolveGeneric(0);
    // IMPORTANT: Do not pass full property name in here - property editors
    // must not kick in for map keys but rather only for map values.
    TypeDescriptor typeDescriptor = TypeDescriptor.valueOf(mapKeyType);
    Object convertedMapKey = convertIfNecessary(null, null, key, mapKeyType, typeDescriptor);
    value = map.get(convertedMapKey);
}
else {
    throw new InvalidPropertyException(getRootClass(), this.nestedPath + propertyName,
           "Property referenced in indexed property path " + propertyName + 
           " is neither an array nor a List nor a Set nor a Map; returned value was [" + value + "]");
}
indexedPropertyName.append(PROPERTY_KEY_PREFIX).append(key).append(PROPERTY_KEY_SUFFIX);
}
return value;
}

catch (IndexOutOfBoundsException ex) {
    throw new InvalidPropertyException(getRootClass(), this.nestedPath + propertyName,
           "Index of out of bounds in property path " + propertyName + ",", ex);
}

catch (NumberFormatException | TypeMismatchException ex) {
    throw new InvalidPropertyException(getRootClass(), this.nestedPath + propertyName,
           "Invalid index in property path " + propertyName + ",", ex);
}

catch (InvocationTargetException ex) {
    throw new InvalidPropertyException(getRootClass(), this.nestedPath + propertyName,
           "Getter for property " + actualName + "," + thrown exception", ex);
}

catch (Exception ex) {
    throw new InvalidPropertyException(getRootClass(), this.nestedPath + propertyName,
           "Illegal attempt to get property " + actualName + ",", thrown exception", ex);
}

/**
 * Return the PropertyHandler for the specified propertyName, navigating
 * if necessary. Return code null if not found rather than throwing an exception.
 * @param propertyName the property to obtain the descriptor for
 * @return the property descriptor for the specified property, or code null if not found
 */
protected PropertyHandler getPropertyHandler(String propertyName) throws BeansException {
    Assert.notNull(propertyName, "Property name must not be null");
    AbstractNestablePropertyAccessor nestedPa = getPropertyAccessForPropertyPath(propertyName);
    return nestedPa.getLocalPropertyHandler(getFinalPath(nestedPa, propertyName));
}

protected abstract PropertyHandler getLocalPropertyHandler(String propertyName);

protected abstract AbstractNestablePropertyAccessor newNestedPropertyAccessor(Object object, String nestedPath);

protected abstract NotWritablePropertyException createNotWritablePropertyException(String propertyName);

private Object growArrayIfNecessary(Object array, int index, String name) {
    if (!isAutoGrowNestedPaths()) {
        return array;
    }
    int length = Array.getLength(array);
    if (index >= length && index < this.autoGrowCollectionLimit) {
        Class<?> componentType = array.getClass().getComponentType();
        Object newArray = Array.newInstance(componentType, index + 1);
        System.arraycopy(array, 0, newArray, 0, length);
        for (int i = length; i < Array.getLength(newArray); i++) {
            Array.set(newArray, i, newValue(componentType, null, name));
        }
        setPropertyValue(name, newArray);
        Object defaultValue = getPropertyValue(name);
    }
Assert.state(defaultValue != null, "Default value must not be null");
return defaultValue;
} else {
return array;
}
}

private void growCollectionIfNecessary(Collection<Object> collection, int index, String name,
PropertyHandler ph, int nestingLevel) {

if (!isAutoGrowNestedPaths()) {
return;
} int size = collection.size();
if (index >= size && index < this.autoGrowCollectionLimit) {
Class<?> elementType = ph.getResolvableType().getNested(nestingLevel).asCollection().resolveGeneric();
if (elementType != null) {
for (int i = collection.size(); i < index + 1; i++) {
  collection.add(newValue(elementType, null, name));
}
}
}

/**
 * Get the last component of the path. Also works if not nested.
 * @param pa property accessor to work on
 * @param nestedPath property path we know is nested
 * @return last component of the path (the property on the target bean)
 */
protected String getFinalPath(AbstractNestablePropertyAccessor pa, String nestedPath) {
if (pa == this) {
return nestedPath;
} return nestedPath.substring(PropertyAccessorUtils.getLastNestedPropertySeparatorIndex(nestedPath) + 1);
}

/**
 * Recursively navigate to return a property accessor for the nested property path.
 * @param propertyPath property path, which may be nested
 * @return a property accessor for the target bean
 */
@SuppressWarnings("unchecked") // avoid nested generic
protected AbstractNestablePropertyAccessor getPropertyAccessorForPropertyPath(String propertyPath) {
  int pos = PropertyAccessorUtils.getFirstNestedPropertySeparatorIndex(propertyPath); // Handle nested properties recursively.
if (pos > -1) {

String nestedProperty = propertyPath.substring(0, pos);
String nestedPath = propertyPath.substring(pos + 1);
AbstractNestablePropertyAccessor nestedPa = getNestedPropertyAccessor(nestedProperty);
return nestedPa.getPropertyAccessorForPropertyPath(nestedPath);

} else {
return this;
}
}

/**
 * Retrieve a Property accessor for the given nested property.
 * Create a new one if not found in the cache.
 * <p>Note: Caching nested PropertyAccessors is necessary now,
 * to keep registered custom editors for nested properties.
 * @param nestedProperty property to create the PropertyAccessor for
 * @return the PropertyAccessor instance, either cached or newly created
 */
private AbstractNestablePropertyAccessor getNestedPropertyAccessor(String nestedProperty) {
if (this.nestedPropertyAccessors == null) {
this.nestedPropertyAccessors = new HashMap<>();
}
// Get value of bean property.
PropertyTokenHolder tokens = getPropertyNameTokens(nestedProperty);
String canonicalName = tokens.canonicalName;
Object value = getPropertyValue(tokens);
if (value == null || (value instanceof Optional && !((Optional) value).isPresent())) {
if (isAutoGrowNestedPaths()) {
value = setDefaultValue(tokens);
} else {
throw new NullValueInNestedPathException(getRootClass(), this.nestedPath + canonicalName);
}
else {
throw new NullValueInNestedPathException(getRootClass(), this.nestedPath + canonicalName);
}

// Lookup cached sub-PropertyAccessor, create new one if not found.
AbstractNestablePropertyAccessor nestedPa = this.nestedPropertyAccessors.get(canonicalName);
if (nestedPa == null || nestedPa.getWrappedInstance() != ObjectUtils.unwrapOptional(value)) {
if (logger.isTraceEnabled()) {
logger.trace("Creating new nested " + getClass().getSimpleName() + "+ getSimpleName() + " for property " + canonicalName + "]");
}
nestedPa = newNestedPropertyAccessor(value, this.nestedPath + canonicalName +
NESTED_PROPERTY_SEPARATOR);
// Inherit all type-specific PropertyEditors.
copyDefaultEditorsTo(nestedPa);
copyCustomEditorsTo(nestedPa, canonicalName);
this.nestedPropertyAccessors.put(canonicalName, nestedPa);
}
else {
    if (logger.isTraceEnabled()) {
        logger.trace("Using cached nested property accessor for property "+ canonicalName + ":");
    }
    }
return nestedPa;
}

private Object setDefaultValue(PropertyTokenHolder tokens) {
    PropertyValue pv = createDefaultPropertyValue(tokens);
    setPropertyValue(tokens, pv);
    Object defaultValue = getPropertyValue(tokens);
    Assert.state(defaultValue != null, "Default value must not be null");
    return defaultValue;
}

private PropertyValue createDefaultPropertyValue(PropertyTokenHolder tokens) {
    TypeDescriptor desc = getPropertyTypeDescriptor(tokens.canonicalName);
    if (desc == null) {
        throw new NullValueInNestedPathException(getRootClass(), this.nestedPath + tokens.canonicalName,
            "Could not determine property type for auto-growing a default value");
    }
    Object defaultValue = newValue(desc.getType(), desc, tokens.canonicalName);
    return new PropertyValue(tokens.canonicalName, defaultValue);
}

private Object newValue(Class<?> type, @Nullable TypeDescriptor desc, String name) {
    try {
        if (type.isArray()) {
            Class<?> componentType = type.getComponentType();
            // TODO - only handles 2-dimensional arrays
            if (componentType.isArray()) {
                Object array = Array.newInstance(componentType, 1);
                Array.set(array, 0, Array.newInstance(componentType.getComponentType(), 0));
                return array;
            } else {
                return Array.newInstance(componentType, 0);
            }
        } else if (Collection.class.isAssignableFrom(type)) {
            TypeDescriptor elementDesc = (desc != null ? desc.getElementTypeDescriptor() : null);
            return CollectionFactory.createCollection(type, (elementDesc != null ? elementDesc.getType() : null), 16);
        } else if (Map.class.isAssignableFrom(type)) {
            TypeDescriptor keyDesc = (desc != null ? desc.getKeyTypeDescriptor() : null);
            return CollectionFactory.createMap(type, (keyDesc != null ? keyDesc.getType() : null), 16);
        }
    }
}
else {
  Constructor<?> ctor = type.getDeclaredConstructor();
  if (Modifier.isPrivate(ctor.getModifiers())) {
    throw new IllegalAccessException("Auto-growing not allowed with private constructor: " + ctor);
  }
  return BeanUtils.instantiateClass(ctor);
}
}

catch (Throwable ex) {
  throw new NullValueInNestedPathException(getRootClass(), this.nestedPath + name,
  "Could not instantiate property type [" + type.getName() + "] to auto-grow nested property path", ex);
}

/**
* Parse the given property name into the corresponding property name tokens.
* @param propertyName the property name to parse
* @return representation of the parsed property tokens
*/
private PropertyTokenHolder getPropertyNameTokens(String propertyName) {
  String actualName = null;
  List<String> keys = new ArrayList<>(2);
  int searchIndex = 0;
  while (searchIndex != -1) {
    int keyStart = propertyName.indexOf(PROPERTY_KEY_PREFIX, searchIndex);
    searchIndex = -1;
    if (keyStart != -1) {
      int keyEnd = propertyName.indexOf(PROPERTY_KEY_SUFFIX, keyStart +
                                        PROPERTY_KEY_PREFIX.length());
      if (keyEnd != -1) {
        if (actualName == null) {
          actualName = propertyName.substring(0, keyStart);
        }
        String key = propertyName.substring(keyStart + PROPERTY_KEY_PREFIX.length(), keyEnd);
        if (key.length() > 1 && (key.startsWith('"') && key.endsWith('"')) ||
                                (key.startsWith('"') && key.endsWith('"')) ) {
          key = key.substring(1, key.length() - 1);
        }
        keys.add(key);
        searchIndex = keyEnd + PROPERTY_KEY_SUFFIX.length();
      }
    }
  }
  String key = propertyName.substring(keyStart + PROPERTY_KEY_PREFIX.length(), keyEnd);
  if (key.length() > 1 && (key.startsWith('"') && key.endsWith('"'))) {
    key = key.substring(1, key.length() - 1);
  }
  keys.add(key);
  searchIndex = keyEnd + PROPERTY_KEY_SUFFIX.length();
}
}

PropertyTokenHolder tokens = new PropertyTokenHolder(actualName != null ? actualName : propertyName);
if (!keys.isEmpty()) {
  tokens.canonicalName += PROPERTY_KEY_PREFIX +
        StringUtils.collectionToDelimitedString(keys, PROPERTY_KEY_SUFFIX + PROPERTY_KEY_PREFIX) +
        PROPERTY_KEY_SUFFIX;
tokens.keys = StringUtils.toStringArray(keys);
}
return tokens;
}

@Override
public String toString() {
StringBuilder sb = new StringBuilder(getClass().getName());
if (this.wrappedObject != null) {
    sb.append(": wrapping object [").append(ObjectUtils.identityToString(this.wrappedObject)).append("]");
} else {
    sb.append(": no wrapped object set");
}
return sb.toString();
}

protected abstract static class PropertyHandler {
    private final Class<?> propertyType;
    private final boolean readable;
    private final boolean writable;

    public PropertyHandler(Class<?> propertyType, boolean readable, boolean writable) {
        this.propertyType = propertyType;
        this.readable = readable;
        this.writable = writable;
    }

    public Class<?> getPropertyType() {
        return this.propertyType;
    }

    public boolean isReadable() {
        return this.readable;
    }

    public boolean isWritable() {
        return this.writable;
    }

    public abstract TypeDescriptor toTypeDescriptor();

    public abstract ResolvableType getResolvableType();
@Nullable
public Class<? extends Object> getMapKeyType(int nestingLevel) {
    return getResolvableType().getNested(nestingLevel).asMap().resolveGeneric(0);
}

@Nullable
public Class<? extends Object> getMapValueType(int nestingLevel) {
    return getResolvableType().getNested(nestingLevel).asMap().resolveGeneric(1);
}

@Nullable
public Class<? extends Object> getCollectionType(int nestingLevel) {
    return getResolvableType().getNested(nestingLevel).asCollection().resolveGeneric();
}

@Nullable
public abstract TypeDescriptor nested(int level);

@Nullable
public abstract Object getValue() throws Exception;

public abstract void setValue(@Nullable Object value) throws Exception;

protected static class PropertyTokenHolder {
    public PropertyTokenHolder(String name) {
        this.actualName = name;
        this.canonicalName = name;
    }

    public String actualName;

    public String canonicalName;

    @Nullable
    public String[] keys;

    }

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1.102 thymeleaf-spring4 2.1.5.RELEASE

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1.103 blinker 1.4

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1.104 spring-tx 4.3.23

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*/

package org.springframework.transaction;

/**
 * Exception that gets thrown when an invalid isolation level is specified,
* i.e. an isolation level that the transaction manager implementation
* doesn’t support.
*
* @author Juergen Hoeller
* @since 12.05.2003
*/
@SuppressWarnings("serial")
public class InvalidIsolationLevelException extends TransactionUsageException {

/**
 * Constructor for InvalidIsolationLevelException.
 * @param msg the detail message
 */
public InvalidIsolationLevelException(String msg) {
    super(msg);
}
}

1.105 spring-security-crypto 4.2.3.RELEASE

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<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1">
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</head>

<body>

<!- Navigation -->

<header>

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

<div class="container">

<div class="navbar-header">

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

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

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

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

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

</button>

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

</div>

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

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

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

<li class="dropdown">

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

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

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

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

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

<li><a href="/foundation/sponsorship.html/">Sponsorship</a></li>

<li><a href="/foundation/glossary.html/">Glossary</a></li>

<li><a href="/foundation/preFAQ.html/">FAQ</a></li>

</ul>

</li>

</ul>

</div>

</div>

</nav>

</header>

<metas>

<meta name="msapplication-TileImage" content="/favicons/mstile-144x144.png"/>

<meta name="msapplication-config" content="/favicons/browserconfig.xml"/>

<meta name="theme-color" content="#303284"/>

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 */

package org.osgi.application;

import java.util.EventListener;
import org.osgi.framework.*;

/**
 * An ApplicationServiceEvent listener. When a ServiceEvent is
 * fired, it is converted to an ApplicationServiceEvent and it is
 * synchronously delivered to an ApplicationServiceListener.
 *
 * <p>
 * ApplicationServiceListener is a listener interface that may be
 * implemented by an application developer.
 *
 * <p>
 * An ApplicationServiceListener object is registered with the Framework
 * using the ApplicationContext.addServiceListener method.
 * ApplicationServiceListener objects are called with an
 * ApplicationServiceEvent object when a service is registered,
 * modified, or is in the process of unregistering.
 *
 * <p>
 * ApplicationServiceEvent object delivery to
 * 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.
 * ApplicationServiceEvent 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 ApplicationServiceEvent ] 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 ApplicationServiceEvent ] object.
 */
public void serviceChanged(ApplicationServiceEvent event);
}
/*
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*/

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 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
     */
public final static String STOPPING = "STOPPING";

private final String instanceId;

/**
 * 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:
 * '{@code application descriptor PID}&lt;i&gt;&lt;i&gt;index&lt;i&gt;&lt;/i&gt;&lt;/i&gt;&gt; where
 * '{@code application descriptor PID}&lt;i&gt;&lt;i&gt;index&lt;i&gt;&lt;/i&gt;&lt;/i&gt;&gt; is the PID of the corresponding
 * '{@code ApplicationDescriptor}' and '{@code index}&lt;i&gt;&lt;i&gt;index&lt;i&gt;&lt;/i&gt;&lt;/i&gt;&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 '{@code 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.
 * *
 * @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.
 */

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.
 * <p>
 * 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.
 * <p>
 * At the end the [@code ApplicationHandle] must be unregistered. This
 * method should free all the resources related to this
 * [@code ApplicationHandle].
 *<p>
 * 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.
 *<p>
 * @throws SecurityException if the caller doesn't have "lifecycle"
 *         [@code ApplicationAdminPermission] for the corresponding
 *         application.
 *<p>
 * @since 1.1
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();

Delegate delegate;

/**
 * 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 {
    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) {
        throw e;
    } catch (RuntimeException e) {
        throw 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) {
        throw e;
    } catch (RuntimeException e) {
        throw e;
    } catch (Throwable e) {
        throw new RuntimeException(e);
    }
}
package org.osgi.service.component.annotations;

/**
 * Policy for the Reference Policy.
 *
 * @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.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 java.security.PrivilegedAction;
import java.security.PrivilegedAction;
import java.security.PrivilegedAction;
import org.osgi.framework.Bundle;

/**

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---
* DeploymentAdminPermission controls access to the Deployment Admin service.

* 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:

* Wildcards also can be used:

* (signer=*,o=ACME,c=*)

* "cn" and "c" may have an arbitrary value

* (signer=*, o=ACME, c=US)

* Only the value of "o" and "c" are significant

* (signer= *, ou=S &amp; V, o=Tweety Inc., c=US)

* The first element of the certificate chain is not important, only the second
  * (the Distinguished Name of the root certificate)

* (signer=- *, o=Tweety Inc., c=US)

* The same as the previous but '-' represents zero or more certificates,
  * whereas the asterisk only represents a single certificate

* (name=*)
The name of the Deployment Package doesn't matter

The name has to begin with "org.osgi."

The following actions are allowed:

- **list**
  
  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]`.

- **install**
  
  A holder of this permission can install/update deployment packages if the deployment package satisfies the `&lt;filter&gt;` string. See `[@link DeploymentAdmin#installDeploymentPackage]`.

- **uninstall**
  
  A holder of this permission can uninstall deployment packages if the deployment package satisfies the `&lt;filter&gt;` string. See `[@link DeploymentPackage#uninstall()]`.

- **uninstall_forced**
  
  A holder of this permission can forcefully uninstall deployment packages if the deployment package satisfies the `&lt;filter&gt;` 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 &lt;filter&gt; string. See

```java
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

```java
DeploymentPackage#getBundle(String)
DeploymentPackage#getBundleInfos()
DeploymentPackage#getHeader(String)
DeploymentPackage#getResourceHeader(String, String)
DeploymentPackage#getResourceProcessor(String)
DeploymentPackage#getResources()
```

The actions string is converted to lower case before processing.

```java
public final class DeploymentAdminPermission extends Permission {

/**
 * Constant String to the "install" action.
 */

```java
public static final String INSTALL = "install";

```java
/**
 * Constant String to the "list" action.
 */

```java
public static final String INSTALL = "install";

```java
```
public static final String LIST = "list";

/**
 * Constant String to the "uninstall" action.
 * <p>
 * @see DeploymentPackage#uninstall()
 */
public static final String UNINSTALL = "uninstall";

/**
 * Constant String to the "uninstall_forced" action.
 * <p>
 * @see DeploymentPackage#uninstallForced()
 */
public static final String UNINSTALL_FORCED = "uninstall_forced";

/**
 * Constant String to the "cancel" action.
 * <p>
 * @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)
 * @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 " + property + " is not set");

try {
    Class c = Class.forName(pckg + ".DeploymentAdminPermission");
    return c.getDeclaredConstructor(new Class[] {String.class, String.class});
} catch (Exception e) {
    throw new RuntimeException(e);
}

/**
 * Creates a new DeploymentAdminPermission object for the given
 * @param name filter string, must not be null.
 * @param actions action string, must not be null. "+" means all the
 * @param actions action string, must not be null. "+" means all the
 * @throws IllegalArgumentException if the filter is invalid, the list of
 *         actions contains unknown operations or one of the parameters is
 *         null
 */
public DeploymentAdminPermission(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;
    } catch (Throwable e) {
        throw new RuntimeException(e);
    }
}

/**
 * Checks two DeploymentAdminPermission objects for equality. Two permission
 * objects are equal if:
 */
their target filters are semantically equal and their actions are the same

@throws IllegalArgumentException If the given object is not a DeploymentAdminPermission.
* 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".
* <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.
* <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>

* 1. implies 1.
* 2. implies 1.
* 1. doesn't implies 2.
* 3. implies 1.
* 4. implies 5.
*  </pre>

* @param permission Permission to check.
* @return true if this DeploymentAdminPermission object implies the
* specified permission.
* @see java.security.Permission#implies(java.security.Permission)
* @see org.osgi.framework.Filter
*/
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();
}

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: ab7441ab9ceea82894de416498a66b9376001581 $
 */
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);
}

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}`.

* `<p>`
* OSGi 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.
 * @throws IllegalArgumentException if the specified `{@code reference}` is
  * `{@code 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 `ApplicationContext.locateService` or
* `locateServices` methods. If the application is not bound to the
* service yet, this method returns `null`.
*
* @return the service object bound to the listener application or
*        `null` if it isn't bound to this service yet.
*/

public Object getServiceObject() {
    return this.serviceObject;
}

package org.osgi.service.application;

/**
 * This exception is used to indicate problems related to application lifecycle
 * management.
 *
 * `[ApplicationException] object is created by the Application Admin to
 * denote an exception condition in the lifecycle of an application.
 * `[ApplicationException]s should not be created by developers.
 * `[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>`APPLICATION_LOCKED` - The application couldn't be launched
 * because it is locked.</li>
 * <li>`APPLICATION_NOT_LAUNCHABLE` - The application is not in
 * launciable state.</li>
 * <li>`APPLICATION_INTERNAL_ERROR` - An exception was thrown by the
* application or its container during launch.

* &lt;li&gt; [@link #APPLICATION_SCHEDULING_FAILED] - The scheduling of an application failed.&lt;/li&gt;

* &lt;li&gt; [@link #APPLICATION_DUPLICATE_SCHEDULE_ID] - The application scheduling failed because the specified identifier is already in use.&lt;/li&gt;

* &lt;li&gt; [@link #APPLICATION_EXITVALUE_NOT_AVAILABLE] - The exit value is not available for an application instance because the instance has not terminated.&lt;/li&gt;

* &lt;li&gt; [@link #APPLICATION_INVALID_STARTUP_ARGUMENT] - One of the specified startup arguments is invalid, for example its type is not permitted.&lt;/li&gt;

* &lt;/ul&gt;

* @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.
     * @author $Id: 5f2542a639033d6c4f85feaf1cbe7f1f0a9d892f $
     */
    public static final int APPLICATION_LOCKED = 0x01;

    /**
     * The application is not in launchable state, it's
     * [@link ApplicationDescriptor#APPLICATION_LAUNCHABLE] attribute is false.
     * @author $Id: 5f2542a639033d6c4f85feaf1cbe7f1f0a9d892f $
     */
    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() ].
     * @author $Id: 5f2542a639033d6c4f85feaf1cbe7f1f0a9d892f $
     */
    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).
     * @author $Id: 5f2542a639033d6c4f85feaf1cbe7f1f0a9d892f $
     */
    public static final int APPLICATION_SCHEDULING_FAILED = 0x04;

    /**
     * The application scheduling failed because the specified identifier is
     * already in use.
     * @author $Id: 5f2542a639033d6c4f85feaf1cbe7f1f0a9d892f $
     */
    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.
 *
 * @since 1.1
 */

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 ApplicationException with the specified error code.
 *
 * @param errorCode The code of the error
 */

public ApplicationException(int errorCode) {
    this.errorCode = errorCode;
}

/**
 * Creates a 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 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;
}

Open Source Used In Cisco Kinetic for Cities 4.1.0.0706
/**
 * 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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*/

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;
    }

    public String toString() {
        return value;
    }

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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.PermissionCollection;
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
 * { @link DeploymentSession#getDataFile(Bundle)} method during the session (see
 * { @link DeploymentSession}). After the session ends the FilePermissions are
 * withdrawn. The Resource Processor will have { @code FilePermission} with
 * "read", "write" and "delete" actions for the returned { @link 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;
/**
 * Constant String to the "privatearea" action.
 */

public static final String PRIVATEAREA = "privatearea";

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 + ".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
 * 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;
    } catch (Throwable e) {
        throw new RuntimeException(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>
 * 
 * @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!
 * <p>
 * @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 true;
}
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();
}

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 target means the adapter can create
* a session in the name of any principal.
*
* @author $Id: f58885e938ced170c689e746d5326e01c5fa8079 $
*/
public class DmtPrincipalPermission extends Permission {
private static final long serialVersionUID = 638875217732503832L;

// 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 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 [code *] to match
 * any principal with the given prefix
 * @throws NullPointerException if [code name] is [code null]
 * @throws IllegalArgumentException if [code 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 [code *] to match
 * any principal with the given prefix
 * @param actions no actions defined, must be "*" for forward compatibility
 */
public DmtPrincipalPermission(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 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 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 "*" in the current version).
 *
 * @return the action string "*"
 */
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 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
* &quot;*&quot; 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.
* *
* @param p the permission to check for implication
* @return true if this DmtPrincipalPermission instance implies the
*         specified permission
*/
public boolean impliesPrincipal(DmtPrincipalPermission p) {
    return isPrefix ? p.principal.startsWith(principal) : !p.isPrefix && p.principal.equals(principal);
final class DmtPrincipalPermissionCollection extends PermissionCollection {
    private static final long serialVersionUID = -669210353775802684L;

    private ArrayList perms;

    public DmtPrincipalPermissionCollection() {
        perms = new ArrayList();
    }

    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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 * limitations under the License.
 */
package org.osgi.application;

import java.util.Dictionary;
import java.util.Map;
import org.osgi.framework.Constants;
import org.osgi.framework.ServiceRegistration;

/**
 * {@code ApplicationContext} is the access point for an OSGi-aware application
 * to the features of the OSGI Service Platform. Each application instance will
 * have its own {@code ApplicationContext} instance, which will not be reused
 * after destroying the corresponding application instance.
 *<p>
 * Application instances can obtain their {@code ApplicationContext} using the
 * {link Framework#getApplicationContext(Object)} method.
 *<p>
 * The lifecycle of an {@code ApplicationContext} instance is bound to the
 * lifecycle of the corresponding application instance. The
 * {code ApplicationContext} becomes available when the application is started
 * and is invalidated when the application instance is stopped (i.e. the
 * "stop" method of the application activator object returned). All method calls
 * (except {link getApplicationId()} and {link getInstanceId()}) to an
 * invalidated context object result an {code IllegalStateException}.
 *
 * @see org.osgi.application.Framework
 *
 * @author $Id: 51dddaaacd80155f9c1b38fe6fd6211a466447d4a $
 */

public interface ApplicationContext {

/**
 * Adds the specified {link ApplicationServiceListener} object to this
 * context application instance's list of listeners. The specified
 * {code referenceName} is a reference name specified in the descriptor of
 * the corresponding application. The registered {code listener} will only
 * receive the {link ApplicationServiceEvent}s related to the referred
 * service.
 *<p>
 * If the {code listener} was already added, calling this method will
 * overwrite the previous registration.
 *<p>
 *
 * @param listener The
 * @link org.osgi.application.ApplicationServiceListener} to be
 * added. It must not be {code null}
 * @param referenceName the reference name of a service from the descriptor
 * of the corresponding application. It must not be {code null}.
 */
* @throws java.lang.IllegalArgumentException If there is no service in the application descriptor with the specified referenceName.
*/
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 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.
 * <p>
 * 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 referenceNames and array of service reference names from the descriptor of the corresponding application. It must not be null and it must not be empty.
 * @throws java.lang.IllegalStateException If this context application instance has stopped.
 * @throws java.lang.NullPointerException If listener or referenceNames is null
 * @throws java.lang.IllegalArgumentException If referenceNames array is empty or it contains unknown references
 */
public void addServiceListener(ApplicationServiceListener listener, String[] referenceNames) throws java.lang.IllegalArgumentException;

/**
 * Removes the specified ApplicationServiceListener object from this context application instance's list of listeners.
 * <p>
 * If listener is not contained in this context application instance's list of listeners, this method does nothing.
 * 
 * @param listener The ApplicationServiceListener object to
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.
 * Note: this method can safely be called on an invalid ApplicationContext as well.
 *
 * @see org.osgi.service.application.ApplicationHandle#getInstanceId()
 *
 * @return 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.
 * Note: this method can safely be called on an invalid 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 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 null
 */
* @return A service object for the referenced service or "null" if
*       the reference cardinality is 0..1 or 0..n and no bound service is
*       available.
* @throws java.lang.NullPointerException If "null" is
*       specified.
* @throws java.lang.IllegalArgumentException If there is no service in the
*       application descriptor with the specified "null".
* @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
 * "null".
 *
 * @param referenceName The name of a reference as specified in a reference
 *        element in this context application's description. It must not be
 *        "null".
 * @return An array of service objects for the referenced service or
 *        "null" if the reference cardinality is 0..1 or 0..n and no
 *        bound service is available.
 * @throws java.lang.NullPointerException If "null" is
 *        specified.
 * @throws java.lang.IllegalArgumentException If there is no service in the
 *        application descriptor with the specified "null".
 * @throws java.lang.IllegalStateException If this context application
 *        instance has stopped.
 */
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 "String", which must not be "null" or empty
 * (""), the value can be any object
 * including "null".
 * * @return a "Map" containing the startup arguments. It can
 *       be "null".
 * @throws java.lang.IllegalStateException If this context application
 *       instance has stopped.
 */
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 {@code locateService} or
* {@code locateServices} methods.
*
* @param serviceObject A service object the application is bound to. It
* must not be null.
* @return The service properties associated with the specified service
* object.
* @throws NullPointerException if the specified serviceObject is
* null
* @throws IllegalArgumentException if the application is not bound to the
* specified service object or it is not a service object at all.
* @throws java.lang.IllegalStateException If this context application
* instance has stopped.
*/
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
* BundleContext#getServiceReferences(String, String)
* or BundleContext#getServiceReference(String)
* method. Other applications can locate this service by using
* #locateService(String) or #locateServices(String) method,
* if they declared their dependence on the registered service.
*
* An application can register a service object that implements the
* ServiceFactory interface to have more
* flexibility in providing service objects to other applications or
* bundles.
*
* The following steps are required to register a service:
* <ol>
* <li>If service is not a ServiceFactory, an
* IllegalArgument exception is thrown if service is not an
* all the classes named.</li>
* <li>The Framework adds these service properties to the specified
* Dictionary (which may be null): a property named
* Constants#SERVICE_ID identifying the
* registration number of the service and a property named
* [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
* [REGISTERED] is fired. This event
* triggers the corresponding [ApplicationServiceEvent] to be
* delivered to the applications that registered the appropriate listener.</li>
* <li>A [ServiceRegistration] object for this registration is
* returned.</li>
* </ul>

* @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
* [OBJECTCLASS]. This parameter
* must not be [code null].
* @param service The service object or a [ServiceFactory] object.
* @param properties The properties for this service. The keys in the
* properties object must all be [code String] objects. See
* [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
* [ServiceRegistration#setProperties(Dictionary)]
* method must be called. The set of properties may be [code null]
* if the service has no properties.
* @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:
* <ul>
* <li>[code service] is [code null].</li>
* <li>[code service] is
* not a [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
* [ServicePermission] to register the service for all the
* named classes and the Java Runtime Environment supports
* permissions.
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 clazz The class name under which the service can be located. It
 *      must not be @code null
 * @param service The service object or a @code ServiceFactory object.
 * @param properties The properties for this service.
 *
 * @return A @code 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 the
 *      named class in @code clazz</li>
 *      <li>@code properties} contains case variants of the same key name</li>
 *      </ul>
 *
 * @throws NullPointerException if @code clazz} is @code null
 *
 * @throws java.lang.SecurityException If the caller does not have the
 *      ServicePermission to register the service the named class
 *      and the Java Runtime Environment supports permissions.
 *
 * @throws java.lang.IllegalStateException If this ApplicationContext is no
 *      longer valid.
 */
public ServiceRegistration registerService(String clazz, Object service, Dictionary properties);
*/

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.
 *
 */

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 {code 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);
    }
}
public final String getApplicationId() {
    return pid;
}

public abstract boolean matchDNChain(String pattern);

/**
 * This method verifies whether the specified [@code pattern] matches the
 * Distinguished Names of any of the certificate chains used to authenticate
 * this application.
 * @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
 */
* further changes in the property values nor will the update of the Map
* change the corresponding service property.
*
* @param locale the locale string, it may be null, the value null means the
* default locale. If the provided locale is the empty String ( 
* { @code ""} then raw (non-localized) values are returned.
*
* @return copy of the service properties of this application descriptor
* service, according to the specified locale. If locale is null
* then the default locale's properties will be returned. (Since
* service properties are always exist it cannot return null.)
*
* @throws IllegalStateException if the application descriptor is
* unregistered
* /
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) {
        }
    }
    /*
    * 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.
*
* @param locale the locale to be used for localizing the properties. If
* @code null the default locale should be used. If it is the empty
* String (@code "") then raw (non-localized) values should be
* returned.
*
* @return the application model specific and/or container implementation
* specific properties of this application descriptor.
*
* @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.
* 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
* 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() method.</li>
* </ul>
* The caller has to have ApplicationAdminPermission(applicationPID,
* "launch") in order to be able to perform this operation.
* 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.triggerevent 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.

@throws SecurityException if the caller doesn't have "lifecycle" ApplicationAdminPermission for the application.

@throws ApplicationException if starting the application failed

@throws IllegalStateException 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`)

```
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;
    } catch (SecurityException se) {
        throw se;
    } catch (ApplicationException ae) {
        throw ae;
    }
```

/**
 * Called by launch() to create and start a new instance in an application
 * model specific way. It also creates and registers the application handle
 * to represent the newly created and started instance and registers 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.
 * <p>
 * @param arguments the startup parameters of the new application instance,
 * may be null
 * <p>
 * @return the registered application model specific application handle for
 * the newly created and started instance.
 * <p>
 * @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.
 * <p>
 * @return true, if the application is launchable according to the
 * container, false otherwise.
 * <p>
 * @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 schedule.
 * <p>
 * The [code Map] argument of the method contains startup arguments for the
 * application. The keys used in the Map must be non-null, non-empty
* {code String} objects. The argument values must be of primitive types,
* wrapper classes of primitive types, {code String} or arrays or
* collections of these.
* <p>
The created schedules have a unique identifier within the scope of this
* {code ApplicationDescriptor}. This identifier can be specified in the
* {code scheduleId} argument. If this argument is {code null}, the
* identifier is automatically generated.
* <p>
* @param scheduleId the identifier of the created schedule. It can be
*        {code 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
* <p>
* @throws NullPointerException if the topic is {code null}
* @throws InvalidSyntaxException if the specified {code eventFilter} is
*        not syntactically correct
* @throws ApplicationException if the schedule couldn't be created. The
*        possible error codes are
*        <ul>
*        <li>{@link ApplicationException#APPLICATION_DUPLICATE_SCHEDULE_ID} if
*            the specified {code scheduleId} is already used for this
*            {code ApplicationDescriptor}</li><li>{@link ApplicationException#APPLICATION_SCHEDULING_FAILED} if the
*                scheduling failed due to some internal reason (e.g. persistent
*                storage error).</li><li>{@link ApplicationException#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"
*        ApplicationAdminPermission for the application.
* @throws IllegalStateException if the application descriptor is
*        unregistered
* @throws IllegalArgumentException if the specified {code Map} contains
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 IllegalStateException */
        throw se; /* otherwise throw the caught SecurityException */
    }
}

/**
 * Sets the lock state of the application. If an application is locked then
 * launching a new instance is not possible. It does not affect the already
 * launched instances.
 * @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 caught SecurityException */
    }
    lockSpecific();
}

/**
 * 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
 */
 protected abstract void lockSpecific();
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 catched 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();

Delegatedelegate;

/**
 * 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 StringName;
static Classimplementation;
static MethodsetApplicationDescriptor;
static MethodisLocked;
static Methodlock;
static Methodunlock;
static Methodschedule;
static Methodlaunch;

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());
}
	ry {
    setApplicationDescriptor = implementation.getMethod("setApplicationDescriptor", new Class[] {
        ApplicationDescriptor.class, String.class });
} catch (NoSuchMethodException e) {
    throw new NoSuchMethodError(e.toString());
}

return null;

Object target;
}

void setApplicationDescriptor(ApplicationDescriptor d, String pid) {
    try {
        try {
            setApplicationDescriptor.invoke(target, new Object[] {d, pid});
        } catch (InvocationTargetException e) {
            throw e.getTargetException();
        } catch (Error e) {
            throw e;
        }
    } catch (Exception e) {
        throw e;
    }
}

Delegate() throws Exception {
    target = AccessController.doPrivileged(new PrivilegedExceptionAction() {
        public Object run() throws Exception {
            return implementation.newInstance();
        }
    });
}

void setApplicationDescriptor(ApplicationDescriptor d, String pid) {
    try {
        try {
            setApplicationDescriptor.invoke(target, new Object[] {d, pid});
        } catch (InvocationTargetException e) {
            throw e.getTargetException();
        } catch (Error e) {
            throw e;
        }
    } catch (Exception e) {
        throw e;
    }
}

Object target;
catch (RuntimeException e) {
    throw 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) {
            throw e.getTargetException();
        }
    } 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) {
            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.getCause();
        }
    } catch (InvalidSyntaxException e) {
        throw e;
    } catch (ApplicationException e) {
        throw e;
    } catch (Error e) {
        throw e;
    } catch (InvocationTargetException e) {
        throw e.getCause();
    } catch (ApplicationException e) {
        throw e;
    } catch (Error e) {
        throw e;
    } catch (InvocationTargetException e) {
        throw e.getCause();
    } 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.getCause();
        }
    } catch (ApplicationException e) {
        throw e;
    } catch (Error e) {
        throw e;
    } catch (InvocationTargetException e) {
        throw e.getCause();
    } 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.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: 8d063b34f0b7e467b8bf7ecd8b8e6d42384fdcb7 $
 * @since 1.2
 */

public final class ConfigurationPermission extends BasicPermission {
    static final long serialVersionUID = 5716868734811965383L;

    /**
     * Provides permission to create new configurations for other bundles as
     * @ThreadSafe
     * @author $Id: 8d063b34f0b7e467b8bf7ecd8b8e6d42384fdcb7 $
     * @since 1.2
     */

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         * Provides permission to create new configurations for other bundles as
         */

    public final class ConfigurationPermission extends BasicPermission {
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    public final class ConfigurationPermission extends BasicPermission {
        static final long serialVersionUID = 5716868734811965383L;

        /**
         * Provides permission to create new configurations for other bundles as
         */

    public final class ConfigurationPermission extends BasicPermission {
* 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 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 - 5] == '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 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);
    break;
}
}

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();
if (i + 2 < size) // if there are more
// substrings, increment
// over the string we just
// matched; otherwise need
// to do the last substr
// check
i++;
}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 */
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 {@code true} if {@code obj} is equivalent to this
 *         {@code ConfigurationPermission}; {@code 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
 * {ConfigurationPermission} actions.
 * <p>
 * Always returns present {ConfigurationPermission} actions in the
 * following order: {value #CONFIGURE}, {value #TARGET}
 * @return Canonical string representation of the
 *         {ConfigurationPermission} actions.
 */
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();
    }
    actions = result = sb.toString();
    return result;
}

/**
 * Returns a new {PermissionCollection} object suitable for storing
 * {ConfigurationPermission}s.
 * @return A new {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 ConfigurationPermission permissions.
 * @see java.security.Permission
 * @see java.security.Permissions
 * @see java.security.PermissionCollection
 */
final class ConfigurationPermissionCollection extends PermissionCollection {
  static final long serialVersionUID = -6917638867081695839L;
  /**
   * 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
 * in { @code permission }.
 * 
 * @param permission The Permission object to compare with this
 * { @code ConfigurationPermission } object.
 * @return { @code true } if { @code permission } is a proper subset of a
 * permission in the set; { @code false } otherwise.
 */
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);
}

/* serialization logic */
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);
    }
}

/*
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 *
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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
 * *
 *   http://www.apache.org/licenses/LICENSE-2.0
*/
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}.
 * <p>
 * {@code CoordinationPermission} has three actions: {@code initiate},
 * {@code participate} and {@code admin}.
 * <p>
 * @ThreadSafe
 * @author $Id: 13aa34e4ea5f268a315be475fa8bb7b2718415bd $
 */
public final class CoordinationPermission extends BasicPermission
{
    private static final long serialVersionUID = 1L;

    /**
     * A bundle's authority to create or use a {@link Coordination}.
     * <p>
     * {@code CoordinationPermission} has three actions: {@code initiate},
     * {@code participate} and {@code admin}.
     * <p>
     * @ThreadSafe
     * @author $Id: 13aa34e4ea5f268a315be475fa8bb7b2718415bd $
     */
    public final class CoordinationPermission extends BasicPermission
    {
        private static final long serialVersionUID = 1L;
    }
public final static String INITIATE = "initiate";

public final static String PARTICIPATE = "participate";

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.
 *
 * @serial
 */
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 {@code CoordinationPermission} object.
  *
  * This constructor must only be used to create a permission that is going
  * to be checked.
  *
  * Examples:
  *
  * <pre>
  * (coordination.name=com.acme.*)
  * (&(signer=\*,o=ACME,c=US)(coordination.name=com.acme.*))
  * (signer=\*,o=ACME,c=US)
  * </pre>
  *
  * <p>
  * When a signer key is used within the filter expression the signer value
  * must escape the special filter chars ('*', '(, ')'.
  *
  * 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>
  * Filter attribute names are processed in a case sensitive manner.
  *
  * @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.
  */
  public 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.
  */
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 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.
 */
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;
            }
    }
    return mask;
}
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] == 'T')
&& (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 '' :
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;
}

/**
 * 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;
    }
}

/**
 * Determines if the specified permission is implied by this object.
 * @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;
    throw new IllegalArgumentException("invalid permission: "+ actions);
}
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 [@code true} if the specified permission is implied by this
 * object; [@code 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
 * [@code CoordinationPermission] actions.
 *
 * Returns the canonical string representation of the
 * @param requested Canonical string representation of the
 * [ @code 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
 * actions as this
 */
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();
    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 [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;
}
final class SignerProperty {
    private final Bundle bundle;
    private final String pattern;

    public SignerProperty(String pattern) {
        this.pattern = pattern;
        this.bundle = null;
    }

    public SignerProperty(Bundle bundle) {
        this.bundle = bundle;
        this.pattern = null;
    }

    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.
 *
 * @return true if constructed with a bundle that 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 @code 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 allAllowed;
    /**
     * 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 CoordinationPermission object to add.
     * @throws IllegalArgumentException If the specified permission is not a
     *         CoordinationPermission instance or was constructed with a
     *         Bundle object.
     * @throws SecurityException If this
     *         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);
        }
        permissions.put(cp.getName(), cp);
    }
}
final String name = cp.getName();
synchronized (this) {
    Map<String, CoordinationPermission> pc = permissions;
    final CoordinationPermission existing = pc.get(name);
    if (existing != null) {
        final CoordinationPermission existing = pc.get(name);
        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);
    }
}

if (!all_allowed) {
    if (name.equals("*")) {
        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 CoordinationPermission } 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 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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 *
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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:
 * 
 */
* 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.
* </p>

* 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>
 * 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 \ ] character. For example
 * the URI [@code "/a*/"] matches [@code "/a"], [@code "/a"],
 * [@code "/a/b"], etc. while [@code "/a/\"] matches [@code "/a"] only.
 * 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 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 \n            else
                i++;
        }
        i++;
    }
path = sb.toString();
}

private void checkUri(String dmtUri) throws IllegalArgumentException {
if (!Uri.isValidUri(dmtUri))
throw new IllegalArgumentException("dmtUri' parameter does not " + "contain a valid URL.");
if (!Uri.isAbsoluteUri(dmtUri))
throw new IllegalArgumentException("dmtUri' parameter does not " + "contain an absolute URL.");
}

/**
 * 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:
 * <ul>
 * <li>it is not a DmtPermission</li>
 * <li>its set of actions contains an action not allowed by this permission</li>
 * <li>the set of nodes defined by its path contains a node not defined by
 * the path of this permission</li>
 * </ul>
 *
 * @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
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 {

    // 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
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 read, publish, reset, startjob,
 * or the combination of these separated by commas. Action names are interpreted case-insensitively,
 * but the canonical action string returned by getActions() uses the
 * forms defined by the action constants.
 * <p>
 * If the wildcard * 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 {

/*
 public Enumeration elements() {
 // Convert Iterator into Enumeration
 return Collections.enumeration(perms);
 }
 */

/*
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 */

*/
private static final long serialVersionUID = -9084425194463274314L;

/**
 * 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";

/**
 * 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";

/**
 * 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";

/**
 * 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.
 * <p>
 * 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";

/**
 * 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;/&amp;#42;/queue_length&gt;, @code com.mycomp.*&amp;#42;/queue_length&gt;.
 * <p>
 * The following targets are invalid: [@code *.myapp/queue_length],
 * [@code com.*.myapp/*], [@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 above and in the documentation of the used actions */

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
                        throw new IllegalArgumentException("Invalid action: ", actions);
        }
    }
}
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());
    } // never happens, "UTF-8" must always be supported
    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
 * [@code MonitorPermission] 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.
 * @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)
private boolean implies(String id, boolean prefix, String oid, boolean oprefix) {
    return prefix ? oid.startsWith(id) : !oprefix && id.equals(oid);
}
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 schedule] implies [@code lifecycle]
     */
    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.
     * @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
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.
 *
 * @see ApplicationDescriptor
 * @see org.osgi.framework.AdminPermission
 */
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 `implies` method to insert the application ID of the current application into the permission being checked. This enables the evaluation of the `<<SELF>>` pseudo targets.

* @param applicationId the ID of the current application.
* @return the permission updated with the ID of the current application
*/

```java
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 `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
 * `ApplicationAdminPermission(String, String)`)</li>
 * <li>The implied `otherPermission` was created for a particular
 * `ApplicationDescriptor` (see
 * `ApplicationAdminPermission(ApplicationDescriptor, String)`)</li>
 * <li>the filter of this permission matches the filter in the `otherPermission`.</li>
 * <li>The list of permitted actions in this permission contains all actions
 * required in the `otherPermission`.</li>
 * </ul>
 * Otherwise the method returns false.
 * @param otherPermission the implied permission
 * @return true if this permission implies the `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;

        if (filter.equals("<<SELF>>")) {
            if (other.applicationID == null)
                return false; /* it cannot be, this might be a bug */

        } 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 String applicationID;
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();
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 Stringpattern;
private ApplicationDescriptorappDesc;
/**
* @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;

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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.util.Map;

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 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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 * limitations under the License.
 */
* 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.  
* <p>  
* Each [@code ScheduledApplication] instance has an identifier which is unique  
* within the scope of the application being scheduled.  
* <p>  
* [@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 $</p>  
* public interface ScheduledApplication {  

  /**  
   * The property key for the identifier 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 unregistered
 */
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();

/**
public void remove();
}

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
     * static and 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
     * static and dynamic reference policies. When a new target service for a reference
     * becomes available, references having the greedy 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.
     */
    GREEDY("greedy"),

    @see ReferencePolicy#RELUCTANT
* 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.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

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* 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: c6a01d2c5e33287b1fd6b40fedca908e9dd072 $
*/
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 { @code * } to match
 * any principal identifier with the given prefix
 * @throws NullPointerException if { @code name} is { @code null}
 * @throws IllegalArgumentException if { @code name} 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
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 " + ";\n" + ";");
}

/**
 * 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
 *
 * @return false;
 */
public boolean equals(Object obj) {
    if (obj == this)
        return true;

    if (!(obj instanceof AlertPermission))
        return false;

    AlertPermission other = (AlertPermission) obj;

    return isPrefix == other.isPrefix && serverId.equals(other.serverId);
}

/**
 * Returns the action list (always [ @code * ] in the current version).
 *
 * @return { @code true } if the parameter represents the same permissions as
 *         this instance
 *
 * @return "*";
 */
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

```java
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 \"*\" with any
 * string.
 *
 * @param p the permission to check for implication
 * @return true if this AlertPermission instance implies the specified
 *         permission
 *
 */
```java
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
 */
```java
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.
 *
 */
```java
boolean impliesServer(AlertPermission p) {
    return isPrefix ? p.serverId.startsWith(serverId) : !isPrefix && p.serverId.equals(serverId);
}
final class DmtAlertPermissionCollection extends PermissionCollection {
    private static final long serialVersionUID = 2288462124510043429L;

    private ArrayList perms;

    public DmtAlertPermissionCollection() {
        perms = new ArrayList();
    }

    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, 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() {
    // Convert Iterator into Enumeration
    return Collections.enumeration(perms);
}

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 * 
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 */
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:
 * 
 * <pre>
 * org/osgi/service/foo/FooEvent/ACTION
 * </pre>
 * 
 * [@code TopicPermission] has two actions: [@code publish] and
 * [@code subscribe].
 * 
 * [@ThreadSafe
 * @author $Id: f20bc549a406856113998df2068c0fb3e8c0be88 $
 * public final class TopicPermission extends Permission {
 * static final long serialVersionUID = -5855638869616183000L;
 * /**
 * The action string [@code publish].
 * */
 * public final static String PUBLISH = "publish";
 * /**
 * The action string [@code 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 publish 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:
 * <p>
 * org/osgi/service/fooFooEvent/ACTION
 * com/isv/*
 * *
 * <pre>
 * *
 * A bundle that needs to publish events on a topic must have the
 * appropriate [@code TopicPermission] for that topic; similarly, a bundle
 * that needs to subscribe to events on a topic must have the appropriate
 * [@code TopicPermission] for that topic.
 * <p>
 * *
 * @param name Topic name.
 * @param actions [@code publish], [@code 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.
* <p>
* 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')
                ) {
            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')
                    {
                matchlen = 7;
                mask |= ACTION_PUBLISH;
            }
        }
    }
    return mask;
}
// 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 '\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;
}
/**
* Determines if the specified permission is implied by this object.
*
* <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.
*
* <pre>
* x/y/*,&quot;publish&quot; -&gt; x/y/z,&quot;publish&quot; is true
* *,&quot;subscribe&quot; -&gt; x/y,&quot;subscribe&quot; is true
* *,&quot;publish&quot; -&gt; x/y,&quot;subscribe&quot; is false
* x/y,&quot;publish&quot; -&gt; x/y/z,&quot;publish&quot; is false
* </pre>
*

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* @param p The target permission to interrogate.
* @return [true] if the specified [TopicPermission] action is
* implied by this object; [false] otherwise.
*/
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
 * [TopicPermission] actions.
 *
 * <p>
 * Always returns present [TopicPermission] actions in the following
 * order: [publish],[subscribe].
 *
 * @return Canonical string representation of the [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) {
            if (comma)
                sb.append(',');
            sb.append(SUBSCRIBE);
        }
        actions = result = sb.toString();
    }
    return result;
}
*/
* 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() {
    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 {@code 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.
     * @serial
     * @GuardedBy this
     */
    private boolean all_allowed;
}

/**
 * Open Source Used In Cisco Kinetic for Cities 4.1.0.0810
* Create an empty TopicPermissions object.

 */
public TopicPermissionCollection() {
    permissions = new HashMap<String, TopicPermission>();
    all_allowed = false;
}

/**
 * Adds a permission to the { @code TopicPermission} objects. The key for the
 * hash is the name.
 *
 * @param permission The { @code TopicPermission} object to add.
 *
 * @throws IllegalArgumentException If the permission is not a
 *         { @code TopicPermission} instance.
 *
 * @throws SecurityException If this { @code 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("*"))
                    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;
        }
    }
    x = permissions.get(name);
    // 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", null);
    permissions = new HashMap<String, TopicPermission>(hashtable);
    all_allowed = gfields.get("all_allowed", false);
}
1.115 jaxb-api 2.2

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The JAXB expert group has wide industry participation with Oracle as the EG lead. The initial specification (JAXB 1.0) was JSR-31 and was released in March 2003.

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import org.springframework.boot.diagnostics;

import org.springframework.core.ResolvableType;

/**
 * Abstract base class for most {@code FailureAnalyzer} implementations.
 * @param <T> the type of exception to analyze
 * @author Andy Wilkinson
 * @author Phillip Webb
 * @since 1.4.0
 */
public abstract class AbstractFailureAnalyzer<T extends Throwable>
        implements FailureAnalyzer {

    @Override
    public FailureAnalysis analyze(Throwable failure) {
        T cause = findCause(failure, getCauseType());
        if (cause != null) {
            return analyze(failure, cause);
        }
        return null;
    }

    /**
     * Returns an analysis of the given {@code failure}, or {@code null} if no analysis was possible.
     * @param rootFailure the root failure passed to the analyzer
     * @param cause the actual found cause
     * @return the analysis or {@code null}
     */
    protected abstract FailureAnalysis analyze(Throwable rootFailure, T cause);

    /**
     * Return the cause type being handled by the analyzer. By default the class generic
     * is used.
     */
}
@return the cause type
*/

@SuppressWarnings("unchecked")
protected Class<? extends T> getCauseType() {
return (Class<? extends T>) ResolvableType
       .forClass(AbstractFailureAnalyzer.class, getClass()).resolveGeneric();
}

@SuppressWarnings("unchecked")
protected final <E extends Throwable> T findCause(Throwable failure, Class<E> type) {
while (failure != null) {
    if (type.isInstance(failure)) {
        return (T) failure;
    }
    failure = failure.getCause();
}
return null;
}

---

**1.128 bootstrap 4.0.0.alpha**

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1.129 jgraph-x 1.10.4.1

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1.130 spring-context 5.0.12

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package org.springframework.core;

/**
 * Common interface for managing aliases. Serves as super-interface for
 * {@link org.springframework.beans.factory.support.BeanDefinitionRegistry}.
 * @author Juergen Hoeller
 * @since 2.5.2
 */
public interface AliasRegistry {

/**
 * Given a name, register an alias for it.
 * @param name the canonical name
 * @param alias the alias to be registered
 */
* @throws IllegalStateException if the alias is already in use
* and may not be overridden
*/
void registerAlias(String name, String alias);

/**
 * Remove the specified alias from this registry.
 * @param alias the alias to remove
 * @throws IllegalStateException if no such alias was found
 */
void removeAlias(String alias);

/**
 * Determine whether this given name is defines as an alias
 * (as opposed to the name of an actually registered component).
 * @param name the name to check
 * @return whether the given name is an alias
 */
boolean isAlias(String name);

/**
 * Return the aliases for the given name, if defined.
 * @param name the name to check for aliases
 * @return the aliases, or an empty array if none
 */
String[] getAliases(String name);

}

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1.132 wso2-api-gateway 2.0

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Open Source Used In Cisco Kinetic for Cities 4.1.0.01027

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1.133 spring-retry 1.2.0.RELEASE

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1.135 slf4j-api 1.7.25

1.136 jarjar-within-cglib 1.0rc8
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1.147 vertx-core 3.4.2

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1.150 joda-time 2.2
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1.151 spring-tx 5.0.12

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/**
 * Exception thrown when the creating of a CCI Record failed because
 * the connector doesn't support the desired CCI Record type.
 *
 * @author Juergen Hoeller
 * @since 1.2
 */
@SuppressWarnings("serial")
public class RecordTypeNotSupportedException extends InvalidDataAccessResourceUsageException {

/**
 * Constructor for RecordTypeNotSupportedException.
 *
 * @param msg message
 * @param ex ResourceException root cause
 */
public RecordTypeNotSupportedException(String msg, ResourceException ex) {
    super(msg, ex);
}

package org.springframework.aop;

import org.aopalliance.aop.Advice;

/**
 * Base interface holding AOP <b>advice</b> (action to take at a joinpoint)
 * and a filter determining the applicability of the advice (such as
 * a pointcut). <i>This interface is not for use by Spring users, but to
 * allow for commonality in support for different types of advice.</i>
 *<p>
 * <b>Spring AOP is based around <b>around</b> advice delivered via method
 * <b>interception</b>, compliant with the AOP Alliance interception API.
 * The Advisor interface allows support for different types of advice,
 * such as <b>before</b> and <b>after</b> advice, which need not be
 * implemented using interception.
 *<p>
 * @author Rod Johnson
 * @author Juergen Hoeller
 */

public interface Advisor {
/**
 * Common placeholder for an empty [@code Advice] to be returned from
 * [@link #getAdvice()] if no proper advice has been configured (yet).
 * @since 5.0
 */
Advice EMPTY_ADVICE = new Advice() {};

/**
 * Return the advice part of this aspect. An advice may be an
 * interceptor, a before advice, a throws advice, etc.
 * @return the advice that should apply if the pointcut matches
 * @see org.aopalliance.intercept.MethodInterceptor
 * @see BeforeAdvice
 * @see ThrowsAdvice
 * @see AfterReturningAdvice
 */
Advice getAdvice();

/**
 * Return whether this advice is associated with a particular instance
 * (for example, creating a mixin) or shared with all instances of
 * the advised class obtained from the same Spring bean factory.
 * Note that this method is not currently used by the framework.
 * Typical Advisor implementations always return [@code true].
 * Use singleton/prototype bean definitions or appropriate programmatic
 * proxy creation to ensure that Advisors have the correct lifecycle model.
 * @return whether this advice is associated with a particular target instance
 */
boolean isPerInstance();

}

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 */
/**
 * Provides a cross-platform implementation to retrieve system information, such
 * as version, memory, CPU, disk, battery, etc.
 */
package oshi;

1.157 spring-jdbc 4.3.13.RELEASE

1.158 vertx-auth-jwt 3.4.1
1.158.1 Available under license :

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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.
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], 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.

<h1>Continuation Usage</h1>

A continuation object is obtained for a request by calling the factory method [@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.

<h3>Suspend/Resume Usage</h3>
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.

<pre>
<b>Filter/Servlet:</b>
// 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 ...

<b>Async Handler:</b>
// when the waited for event happens
continuation.setAttribute("results",event);
continuation.resume();

<b>Filter/Servlet:</b>
// when the request is redispached
</pre>
* 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.
* </p>
* <p>
* 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 redispach the request as if {@link #resume()} had been called,
* except that {@link #isExpired()} will be true and {@link #isResumed()} will be false.
* </p>
* 
* @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}.
    *
    * 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>
    *
    * 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:
* <ul>
* <li>a call to [@link #resume()].</li>
* <li>a call to [@link #complete()].</li>
* <li>the timeout expires.</li>
* </ul>
* 
* Typically suspend with no arguments is uses when a call to [@link #resume()]
* is expected. If a call to [@link #complete()] is expected, then the
* [@link #suspend(ServletResponse)] method should be used instead of this method.
* 
* @exception IllegalStateException
* If the request cannot be suspended
*/
void suspend();

/* -------------------------------------------------------------- */
/*** *
* Suspend the processing of the request and associated
* [@link ServletResponse].
*
* 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).
* */
* 
* 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:
* <ul>
* <li>a call to [@link #resume()].</li>
* <li>a call to [@link #complete()].</li>
* <li>the timeout expires.</li>
* </ul>
* 
* Typically suspend with a response argument is uses when a call to [@link #complete()]
* is expected. If a call to [@link #resume()] is expected, then the
* [@link #suspend()] method should be used instead of this method.
* */
* 
* Filters that may wrap the response object should check [@link isResponseWrapped()]
* to decide if they should destroy/finish the wrapper. If [@link isResponseWrapped()]
* 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 #getServletRequest()]
* @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.
 *
 * 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
**
boolean isResumed();

/**
 * @return true after a request has been redispached as the result of a
 *         timeout. Returns false after any subsequent call to suspend.
 */
boolean isExpired();

/**
 * @return true while the request is within the initial dispatch to the
 *         filter chain and/or servlet. Will return false once the calling
 *         thread has returned to the container after suspend has been
 *         called and during any subsequent redispatch.
 */
boolean isInitial();

/**
 * Is the suspended response wrapped.
 * <p>
 * Filters that wrap the response object should check this method to
 * determine if they should destroy/finish the wrapped response. If
 * the request was suspended with a call to \{@link #suspend(ServletResponse)\}
 * that passed the wrapped response, then the filter should register
 * a \{@link ContinuationListener\} to destroy/finish the wrapped response
 * during a call to \{@link ContinuationListener#onComplete(Continuation)\}.
 * @return True if \{@link #suspend(ServletResponse))\ has been passed a
 *         \{@link ServletResponseWrapper\} instance.
 */
boolean isResponseWrapped();

/**
 * Get the suspended response.
 * @return the \{@link ServletResponse\} passed to \{@link #suspend(ServletResponse)\}.
 */
ServletResponse getServletResponse();

/**
 * Add a ContinuationListener.
 */
* @param listener
void addContinuationListener(ContinuationListener listener);

/** Get a request attribute.
 * This method is a convenience method to call the [link 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 [link 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 [link ContinuationThrowable]
 * which is caught either by the container or the [link 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>
 * @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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<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;
}
p.list {
  margin-left: 0.5in;
  margin-top: 0.05em;
  margin-bottom: 0.05em;
}
</style>
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1.174 cdp-etl 1.0

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 */

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/**
 * 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 <tt>FULL_CONTROL</tt>
 * @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 <tt>FULL_CONTROL</tt>
 */
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.fs.permission;

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

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

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

    /**
     * Begin parsing permission stored in modeStr
     *
     * @param modeStr Permission mode, either octal or symbolic
     * @param symbolic Use-case specific symbolic pattern to match against
     * @throws IllegalArgumentException if unable to parse modeStr
     */
    public PermissionParser(String modeStr, Pattern symbolic, Pattern octal)
        throws IllegalArgumentException {
        Matcher matcher = null;
        if ((matcher = symbolic.matcher(modeStr)).find()) {
            applyNormalPattern(modeStr, matcher);
        } else if ((matcher = octal.matcher(modeStr)).matches()) {
            applyOctalPattern(modeStr, matcher);
        } else {
            throw new IllegalArgumentException(modeStr);
        }
    }

    private void applyNormalPattern(String modeStr, Matcher matcher) {
        // Are there multiple permissions stored in one chmod?
        boolean commaSeperated = false;
        for (int i = 0; i < 1 || matcher.end() < modeStr.length(); i++) {
            if (i > 0 && (!commaSeperated || matcher.find())) {
                applyNormalPattern(modeStr, matcher);
            } else if (!matcher.end() < modeStr.length()) {
                applyOctalPattern(modeStr, matcher);
            } else {
                throw new IllegalArgumentException(modeStr);
            }
        }
    }

    private void applyOctalPattern(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())) {
                applyNormalPattern(modeStr, matcher);
            } else if (!matcher.end() < modeStr.length()) {
                applyOctalPattern(modeStr, matcher);
            } else {
                throw new IllegalArgumentException(modeStr);
            }
        }
    }
}
throw new IllegalArgumentException(modeStr);
}

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

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

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

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

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

short mode = 0;

for (char c : matcher.group(3).toCharArray()) {
    switch (c) {
        case 'r':
            mode |= 4;
            break;
        case 'w':
            mode |= 2;
            break;
        case 'x':
            mode |= 1;
            break;
        default:
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;
  }

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

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

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

    String str = matcher.group(2);
    userMode = Short.valueOf(str.substring(0, 1));
    groupMode = Short.valueOf(str.substring(1, 2));
    othersMode = Short.valueOf(str.substring(2, 3));
protected int combineModes(int existing, boolean exeOk) {
    return combineModeSegments(stickyBitType, stickyMode, (existing >>> 9), false) << 9 |
    combineModeSegments(userType, userMode, (existing >>> 6) & 7, exeOk) << 6 |
    combineModeSegments(groupType, groupMode, (existing >>> 3) & 7, exeOk) << 3 |
    combineModeSegments(othersType, othersMode, existing & 7, exeOk);
}

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

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

    switch (type) {
        case '+' : mode = mode | existing; break;
        case '-' : mode = (~mode) & existing; break;
        case '=' : break;
        default  : throw new RuntimeException("Unexpected");
    }

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

    return mode;
}

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

import 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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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.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;

    /**
     * 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.hashCode(owner, group, stickyBit, entries);
}

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

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

    /**
     * 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;
    }
}
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;
}

/**
 * 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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*/
package org.apache.hadoop.fs.permission;
import java.util.Iterator;
import java.util.List;
import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;
import com.google.common.collect.Lists;
/**
* AclUtil contains utility methods for manipulating ACLs.
*/
@InterfaceAudience.LimitedPrivate({"HDFS", "MapReduce"})
@InterfaceStability.Unstable
public final class AclUtil {
/**
* Given permissions and extended ACL entries, returns the full logical ACL.
*
* @param perm FsPermission containing permissions
* @param entries List<AclEntry> containing extended ACL entries
* @return List<AclEntry> containing full logical ACL
*/
public static List<AclEntry> getAclFromPermAndEntries(FsPermission perm,
List<AclEntry> entries) {

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

// Owner entry implied by owner permission bits.
List.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;
  } else if (curEntry.getScope() == AclEntryScope.ACCESS) {
    hasAccessAcl = true;
    acl.add(curEntry);
  }
}

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

// Other entry implied by other bits.
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.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;
        }
    }

    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. <b>Do not use.</b> */
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})+"\n                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;
    }
    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: ");
if (actions != null) {
    str.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
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.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(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;
        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
     */
}
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 [AclEntry] parsed
 */
public static List<AclEntry> parseAclSpec(String aclSpec, boolean includePermission) {
List<AclEntry> aclEntries = new ArrayList<AclEntry>();
Collection<String> aclStrings = StringUtils.getStringCollection(aclSpec, ",");
for (String aclStr : aclStrings) {
    AclEntry aclEntry = parseAclEntry(aclStr, includePermission);
    aclEntries.add(aclEntry);
}
return aclEntries;

/**
 * Parses a string representation of an ACL into a AclEntry object.
 *
 * @param aclStr
 *     String representation of an ACL. Example: "user:foo:rw-"
 * @param includePermission
 *     for setAcl operations this will be true. i.e. Acl should include
 *     permissions. But for removeAcl operation it will be false. i.e. Acl should not
 *     contain permissions.
 *     Example: "user:foo,group:bar,mask::"
 * @return Returns an {@link AclEntry} object
 */
public static AclEntry parseAclEntry(String aclStr, boolean includePermission) {
    AclEntry.Builder builder = new AclEntry.Builder();
    // Here "::" represent one empty string. StringUtils.getStringCollection() will ignore this.
    String[] split = aclStr.split(":");
    if (split.length == 0) {
        throw new HadoopIllegalArgumentException("Invalid <aclSpec> : "+ aclStr);
    }
    int index = 0;
    if ("default".equals(split[0])) {
        // default entry
        index++;
        builder.setScope(AclEntryScope.DEFAULT);
    }
    if (split.length <= index) {
        throw new HadoopIllegalArgumentException("Invalid aclSpec : " + aclStr);
    }
    AclEntryType aclType = null;
    try {
        aclType = Enum.valueOf(AclEntryType.class, split[index].toUpperCase());
    }
    catch (EnumConstantNotPresentException e) { /* do nothing */ }
    return builder.setAclEntryType(aclType).build();
}
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.toString();
}
return buf.substring(0, buf.length()-1);  // remove last ,
}
}

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include/winstdint.h is included only for Windows Client support, as follows:

// ISO C9x compliant stdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
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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*");
final short umaskMode;
public UmaskParser(String modeStr) throws IllegalArgumentException {
super(modeStr, umaskSymbolicPattern, chmodOctalPattern);
umaskMode = (short)combineModes(0, false);
}

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/**
 * 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 java.util.regex.Pattern;
import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;
import org.apache.hadoop.fs.FileStatus;
/**
* Parse a permission mode passed in from a chmod command and apply that
* mode against an existing file.
*/
@InterfaceAudience.Private
@InterfaceStability.Unstable
public class ChmodParser extends PermissionParser {
private static Pattern chmodOctalPattern =
Pattern.compile("^\\s*[+]?([01]?)([0-7]{3})\\s*$");
private static Pattern chmodNormalPattern =
Pattern.compile("\\G\\s*([ugoa]*)([+=-]+)([rwxXt]+)([,\\s]*)\\s*");
public ChmodParser(String modeStr) throws IllegalArgumentException {
super(modeStr, chmodNormalPattern, chmodOctalPattern);
}

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

return (short)combineModes(existing, exeOk);
}

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 */
import java.util.Collections;
import java.util.List;

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

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

    /**
     * Creates a new ScopedAclEntries from the given list. It is assumed that the
     * list is already sorted such that all access entries precede all default
     * entries.
     *
     * @param aclEntries List<AclEntry> to separate
     */
    public ScopedAclEntries(List<AclEntry> aclEntries) {
        int pivot = calculatePivotOnDefaultEntries(aclEntries);
        if (pivot != PIVOT_NOT_FOUND) {
            accessEntries = pivot != 0 ? aclEntries.subList(0, pivot) :
                                    Collections.<AclEntry>emptyList();
            defaultEntries = aclEntries.subList(pivot, aclEntries.size());
        } else {
            accessEntries = aclEntries;
            defaultEntries = Collections.emptyList();
        }
    }
/**
 * Returns access entries.
 *
 * @return List<AclEntry> containing just access entries, or an empty list if
 * there are no access entries
 */
public List<AclEntry> getAccessEntries() {
    return accessEntries;
}

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

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

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 */

package org.apache.hadoop.fs.permission;

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

/**
 * Store permission related information.
 */
@InterfaceAudience.LimitedPrivate({"HDFS", "MapReduce"})
@InterfaceStability.Unstable
public class PermissionStatus implements Writable {
   static final WritableFactory FACTORY = new WritableFactory() {
      @Override
      public Writable newInstance() { return new PermissionStatus(); }
   };
   static {                                      // register a ctor
      WritableFactories.setFactory(PermissionStatus.class, FACTORY);
   }
   /** Create an immutable {@link PermissionStatus} object. */
   public static PermissionStatus createImmutable(
      String user, String group, FsPermission permission) {
      return new PermissionStatus(user, group, permission) {
         @Override
         public PermissionStatus applyUMask(FsPermission umask) {
            throw new UnsupportedOperationException();
         }
      };
   }
   /**
    * Store permission related information.
    */
   @Override
   public void write(DataOutput out) throws IOException {
      // Write user, group, and permission
   }
   @Override
   public void readFields(DataInput in) throws IOException {
      // Read user, group, and permission
   }
}

// Create an immutable PermissionStatus object.
PermissionStatus immutableStatus = PermissionStatus.createImmutable("user", "group", FsPermission.READ);

// Write the immutable object to a stream.
DataOutputStream os = new DataOutputStream(new FileOutputStream("output.dat"));
immutableStatus.write(os);

// Read the object back from the stream.
DataInputStream is = new DataInputStream(new FileInputStream("output.dat"));
PermissionStatus readStatus = new PermissionStatus(is);

// Use the read object.
String user = readStatus.getUser();
String group = readStatus.getGroup();
FsPermission permission = readStatus.getPermission();
@Override
public void readFields(DataInput in) throws IOException {
    throw new UnsupportedOperationException();
}

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

private PermissionStatus() {}}

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

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

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

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

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

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

@Override
public void write(DataOutput out) throws IOException {

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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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>getCause</tt> method). (A <tt>null</tt> value is permitted, and indicates that the cause is nonexistent or unknown.)
     */
    public AccessControlException(String s, Throwable cause) {
        super(s, cause);
    }

    // Required by @link java.io.Serializable.
}
public AccessControlException(Throwable cause) {
    super(cause);
}

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JUnit

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 */

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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;
}

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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
/**
 * 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."
                + " with value " + confUmask + " as " + type + " umask.";
            LOG.warn(error);

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

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

public boolean getStickyBit() {
    return stickyBit;
}

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

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

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

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

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

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

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

/**
 * Create a FsPermission from a Unix symbolic permission string
 * @param unixSymbolicPermission e.g. "-rw-rw-rw-
 */
public static FsPermission valueOf(String unixSymbolicPermission) {
    if (unixSymbolicPermission == null) {
        return null;
    }
    else if (unixSymbolicPermission.length() != MAX_PERMISSION_LENGTH) {
        throw new IllegalArgumentException(String.format(
            "length != %d(unixSymbolicPermission=%s)",
            MAX_PERMISSION_LENGTH, unixSymbolicPermission));
    }
    int n = 0;
    for(int i = 1; i < unixSymbolicPermission.length(); i++) {
        n = n << 1;
        char c = unixSymbolicPermission.charAt(i);
        n += (c == '-' || c == 'T' || c == 'S') ? 0: 1;
    }
    // Add sticky bit value if set
    if(unixSymbolicPermission.charAt(9) == 't' ||
        unixSymbolicPermission.charAt(9) == 'T')
        n += 01000;

    return new FsPermission((short)n);
}

private static class ImmutableFsPermission extends FsPermission {


public ImmutableFsPermission(short permission) {
    super(permission);
}

@Override
public FsPermission applyUMask(FsPermission umask) {
    throw new UnsupportedOperationException();
}

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

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package org.springframework.orm;

import org.springframework.dao.OptimisticLockingFailureException;

/**
 * Exception thrown on an optimistic locking violation for a mapped object.
 * Provides information about the persistent class and the identifier.
 * @author Juergen Hoeller
 * @since 13.10.2003
 */
@SuppressWarnings("serial")
public class ObjectOptimisticLockingFailureException extends OptimisticLockingFailureException {

private Object persistentClass;

private Object identifier;

/**
 * Create a general ObjectOptimisticLockingFailureException with the given message,
 * without any information on the affected object.
 * @param msg the detail message
 * @param cause the source exception
 */
public ObjectOptimisticLockingFailureException(String msg, Throwable cause) {
    super(msg, cause);
}
**
* Create a new ObjectOptimisticLockingFailureException for the given object,
* with the default "optimistic locking failed" message.
* @param persistentClass the persistent class
* @param identifier the ID of the object for which the locking failed
*/
public ObjectOptimisticLockingFailureException(Class<?> persistentClass, Object identifier) {
    this(persistentClass, identifier, null);
}

/**
* Create a new ObjectOptimisticLockingFailureException for the given object,
* with the default "optimistic locking failed" message.
* @param persistentClass the persistent class
* @param identifier the ID of the object for which the locking failed
* @param cause the source exception
*/
public ObjectOptimisticLockingFailureException(
    Class<? extends PersistentObject> persistentClass, Object identifier, Throwable cause) {

    this(persistentClass, identifier,
        "Object of class [" + persistentClass.getName() + "] with identifier [" + identifier + "]: optimistic locking failed", cause);
}

/**
* Create a new ObjectOptimisticLockingFailureException for the given object,
* with the given explicit message.
* @param persistentClass the persistent class
* @param identifier the ID of the object for which the locking failed
* @param msg the detail message
* @param cause the source exception
*/
public ObjectOptimisticLockingFailureException(
    Class<? extends PersistentObject> persistentClass, Object identifier, String msg, Throwable cause) {

    super(msg, cause);  
    this.persistentClass = persistentClass;  
    this.identifier = identifier;  
}

/**
* Create a new ObjectOptimisticLockingFailureException for the given object,
* with the default "optimistic locking failed" message.
* @param persistentClassName the name of the persistent class
* @param identifier the ID of the object for which the locking failed
*/
public ObjectOptimisticLockingFailureException(String persistentClassName, Object identifier) {
/**
 * Create a new ObjectOptimisticLockingFailureException for the given object,
 * with the default "optimistic locking failed" message.
 * @param persistentClassName the name of the persistent class
 * @param identifier the ID of the object for which the locking failed
 * @param cause the source exception
 */

public ObjectOptimisticLockingFailureException(
        String persistentClassName, Object identifier, Throwable cause) {
    this(persistentClassName, identifier, null);
}

/**
 * Create a new ObjectOptimisticLockingFailureException for the given object,
 * with the given explicit message.
 * @param persistentClassName the name of the persistent class
 * @param identifier the ID of the object for which the locking failed
 * @param msg the detail message
 * @param cause the source exception
 */

public ObjectOptimisticLockingFailureException(
        String persistentClassName, Object identifier, String msg, Throwable cause) {
    super(msg, cause);
    this.persistentClass = persistentClassName;
    this.identifier = identifier;
}

/**
 * Return the persistent class of the object for which the locking failed.
 * If no Class was specified, this method returns null.
 */

public Class<?> getPersistentClass() {
    return (this.persistentClass instanceof Class ? (Class<?>) this.persistentClass : null);
}

/**
 * Return the name of the persistent class of the object for which the locking failed.
 * Will work for both Class objects and String names.
 */

public String getPersistentClassName() {

if (this.persistentClass instanceof Class) {
    return ((Class<?>) this.persistentClass).getName();
}
return (this.persistentClass != null ? this.persistentClass.toString() : null);

/**
 * Return the identifier of the object for which the locking failed.
 */
public Object getIdentifier() {
    return identifier;
}

1.200 activiti-form-api 6.0.0

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1.202 antlr 2.7.7

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1.206 slf4j-api 1.7.5

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1.207 log4j-slf4j-impl 2.6.2

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1.210 jersey-json 1.8

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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.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"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
      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
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      root function must still compute square roots.)

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

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.
5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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 Section 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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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.

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
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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.

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   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.

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3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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

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

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

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

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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.

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1.222 hibernate-entitymanager 3.4.0 GA

1.223 cglib-nodep 2.2.2
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ASM: a very small and fast Java bytecode manipulation framework

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1.235 spring-integration-amqp

2.1.3.RELEASE

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1.3.1

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    xsi:schemaLocation="http://jboss.org/xml/ns/javax/validation/configuration validation-configuration-1.1.xsd"
    version="1.1">
  
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  <property
      name="hibernate.validator.constraint_mapping_contributors">org.hibernate.validator.test.cfg.ConstraintMappingContributorConfiguredInValidationXmlTest$MyConstraintMappingContributor2</property>

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Other developers who have contributed code are:

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 */
1.263 httpcore 4.4.5

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1.264 xmlcommonsexternalcomponents

1.0.b2

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(last updated $Date: 2002/01/31 23:13:42 $)

1.265 spring-web 4.3.5

1.266 jackson-core 2.6.3

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Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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</head>

<body>

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<span class="icon-bar"></span>
</button>
</div>
</div>
</nav>
</header>
</body>
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Last revised by Reagle $Date: 2005-06-03 18:49:13 -0400 (Fri, 03 Jun 2005) $

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1.276 hibernate-validator 5.2.5.Final
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1.283 spring-web 5.0.12
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    */

    package org.springframework.http.codec.multipart;

    /**
    * Specialization of @link Part for a form field.
    *
    * @author Rossen Stoyanchev
    * @since 5.0
    */
    public interface FormFieldPart extends Part {
/**
 * Return the form field value.
 */

String value();

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1.284 httpclient 4.5.8

1.285 j2objc-annotations 1.1

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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.  
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Low-level Unicode bidi/shaping properties access.
Java port of ubidi_props.h/c.
This locale data is based on the ICU’s Vietnamese locale data (rev. 1.38) found at:


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<code>Replaceable</code> is an interface representing a string of characters that supports the replacement of a range of itself with a new string of characters. It is used by APIs that change a piece of text while retaining metadata. Metadata is data other than the Unicode characters returned by char32At(). One example of metadata is style attributes; another is an edit history, marking each character with an author and revision number.

An implicit aspect of the <code>Replaceable</code> API is that during a replace operation, new characters take on the metadata of the old characters. For example, if the string "the <b>bold</b> font" has range (4, 8) replaced with "strong", then it becomes "the <b>strong</b> font".

<code>Replaceable</code> specifies ranges using a start offset and a limit offset. The range of characters thus specified includes the characters at offset start..limit-1. That is, the start offset is inclusive, and the limit offset is exclusive.

<code>Replaceable</code> also includes API to access characters in the string: <code>length()</code>, <code>charAt()</code>, <code>char32At()</code>, and <code>extractBetween()</code>.

For a subclass to support metadata, typical behavior of <code>replace()</code> is the following:

<ul>
<li>Set the metadata of the new text to the metadata of the first character replaced</li>
<li>If no characters are replaced, use the metadata of the previous character</li>
<li>If there is no previous character (i.e. start == 0), use the following characters</li>
<li>If there is no following character (i.e. the replaceable was empty), use default metadata</li>
<li>If the code point U+FFFF is seen, it should be interpreted as a special marker having no metadata</li>
</ul>
If this is not the behavior, the subclass should document any differences.

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@author Alan Liu
@stable ICU 2.0

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<code>ReplaceableString</code> is an adapter class that implements the <code>Replaceable</code> API around an ordinary <code>StringBuffer</code>.

<p><em>Note:</em> This class does not support attributes and is not intended for general use. Most clients will need to implement { @link Replaceable } in their text representation class.

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@see Replaceable
@author Alan Liu
@stable ICU 2.0

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import java.io.Serializable;

/**
* Legacy security code; do not use.
* /
public abstract class Permission implements Guard, Serializable {
    public Permission(String name) { }

    public final String getName() { return null; }

    public void checkGuard(Object obj) throws SecurityException { }

    public PermissionCollection newPermissionCollection() {
        return new AllPermissionCollection();
    }

    public abstract String getActions();

    public abstract boolean implies(Permission permission);
}
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1.286 hibernate-validator 5.4.2.Final

1.287 spring-web-mvc -4.3.5.RELEASE
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1.292 jackson-jaxrs 1.9.5

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1.311 spring-security-core 4.2.3

1.312 ognl 3.2.6

1.313 jopt-simple 3.2
1.313.1 Available under license :

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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.*;

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();
}
```java
@Override
public String toString() {
    return options.toString();
}
}

1.314 vertx-auth-jwt 3.3.3

1.314.1 Available under license:

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 */

/**
 * == The JWT auth provider
 *
 * This component contains an out of the box a JWT implementation. To use this project, add the following
 * dependency to the _dependencies_ section of your build descriptor:
 *
 * * Maven (in your `pom.xml`):
 *
 * [source,xml,subs="+attributes"]
 * 
 * <dependency>
 *   <groupId>${maven.groupId}</groupId>
 *   <artifactId>${maven.artifactId}</artifactId>
 *   <version>${maven.version}</version>
 * </dependency>
 * 
 *
 * * Gradle (in your `build.gradle` file):
 *
 * [source,groovy,subs="+attributes"]
 * 
 */
* compile '${maven.groupId}:${maven.artifactId}:${maven.version}’

* JSON Web Token is a simple way to send information in the clear (usually in a URL) whose contents can be
  * verified to
  * be trusted. JWT are well suited for scenarios as:

  * In a Single Sign-On scenario where you want a separate authentication server that can then send user
    * information in a trusted way.
  * Stateless API servers, very well suited for simple page applications.
  * etc...

* Before deciding on using JWT, it's important to note that JWT does not encrypt the payload, it only signs it. You
  * should not send any secret information using JWT, rather you should send information that is not secret but needs to
  * be verified. For instance, sending a signed user id to indicate the user that should be logged in would work great!
  * Sending a user's password would be very, very bad.

* Its main advantages are:

  * It allows you to verify token authenticity.
  * It has a json body to contain any variable amount of data you want.
  * It's completely stateless.

* To create an instance of the provider you use {@link io.vertx.ext.auth.jwt.JWTAuth}. You specify the
  * configuration in a JSON object.

* Here's an example of creating a JWT auth provider:

```
[source,java]
----
{@link examples.AuthJWTExamples#example6}
----
```

* A typical flow of JWT usage is that in your application you have one end point that issues tokens, this end point
  * should be running in SSL mode, there after you verify the request user, say by its username and password you
  * would do:

```
[source,java]
----
{@link examples.AuthJWTExamples#example7}
----
```

* // TODO show example of authentication and authorisation with JWT and explain how the permission string passed
  * // in authorisation maps to the claims in the JW token
The JWT keystore file

This auth provider requires a keystore in the classpath or in the filesystem with either a `https://docs.oracle.com/javase/8/docs/api/javax/crypto/Mac.html[javax.crypto.Mac]` or a `https://docs.oracle.com/javase/8/docs/api/java/security/Signature.html[java.security.Signature]` in order to sign and verify the generated tokens.

The implementation will, by default, look for the following aliases, however not all are required to be present. As a good practice `HS256` should be present:

- `HS256`: HMAC using SHA-256 hash algorithm
- `HS384`: HMAC using SHA-384 hash algorithm
- `HS512`: HMAC using SHA-512 hash algorithm
- `RS256`: RSASSA using SHA-256 hash algorithm
- `RS384`: RSASSA using SHA-384 hash algorithm
- `RS512`: RSASSA using SHA-512 hash algorithm
- `ES256`: ECDSA using P-256 curve and SHA-256 hash algorithm
- `ES384`: ECDSA using P-384 curve and SHA-384 hash algorithm
- `ES512`: ECDSA using P-521 curve and SHA-512 hash algorithm

When no keystore is provided the implementation falls back in unsecure mode and signatures will not be verified, this is useful for the cases where the payload if signed and or encrypted by external means.

Generate a new Keystore file

The only required tool to generate a keystore file is `keytool`, you can now specify which algorithms you need by running:

```
keytool -genseckey -keystore keystore.jceks -storetype jceks -storepass secret -keyalg HMacSHA256 -keysize 2048 -alias HS256 -keypass secret
keytool -genseckey -keystore keystore.jceks -storetype jceks -storepass secret -keyalg HMacSHA384 -keysize 2048 -alias HS384 -keypass secret
keytool -genseckey -keystore keystore.jceks -storetype jceks -storepass secret -keyalg HMacSHA512 -keysize 2048 -alias HS512 -keypass secret
keytool -genkey -keystore keystore.jceks -storetype jceks -storepass secret -keyalg RSA -keysize 2048 -alias RS256 -keypass secret -sigalg SHA256withRSA -dname "CN=,OU=,O=,L=,ST=,C=" -validity 360
keytool -genkey -keystore keystore.jceks -storetype jceks -storepass secret -keyalg RSA -keysize 2048 -alias RS384 -keypass secret -sigalg SHA384withRSA -dname "CN=,OU=,O=,L=,ST=,C=" -validity 360
keytool -genkey -keystore keystore.jceks -storetype jceks -storepass secret -keyalg RSA -keysize 2048 -alias RS512 -keypass secret -sigalg SHA512withRSA -dname "CN=,OU=,O=,L=,ST=,C=" -validity 360
keytool -genkeypair -keystore keystore.jceks -storetype jceks -storepass secret -keyalg EC -keysize 256 -alias ES256 -keypass secret -sigalg SHA256withECDSA -dname "CN=,OU=,O=,L=,ST=,C=" -validity 360
keytool -genkeypair -keystore keystore.jceks -storetype jceks -storepass secret -keyalg EC -keysize 256 -alias ES384 -keypass secret -sigalg SHA384withECDSA -dname "CN=,OU=,O=,L=,ST=,C=" -validity 360
keytool -genkeypair -keystore keystore.jceks -storetype jceks -storepass secret -keyalg EC -keysize 256 -alias ES512 -keypass secret -sigalg SHA512withECDSA -dname "CN=,OU=,O=,L=,ST=,C=" -validity 360
```
* keytool -genkeypair -keystore keystore.jceks -storetype jceks -storepass secret -keyalg EC -keysize 256 -alias
* ES512 -keypass secret -sigalg SHA512withECDSA -dname "CN=,OU=,O=,L=,ST=,C=" -validity 360
* ----
* @Document(fileName = "index.adoc")
* ModuleGen(name = "vertx-auth-jwt", groupPackage = "io.vertx")
package io.vertx.ext.auth.jwt;
import io.vertx.codegen.annotations.ModuleGen;
import io.vertx.docgen.Document;
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1.322 netty-codec-http 4.1.8.Final

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 */

package org.springframework.web.servlet;

/**
 * Provides additional information about a View such as whether it
 * performs redirects.
 * @author Rossen Stoyanchev
 * @since 3.1
public interface SmartView extends View {

    /**
     * Whether the view performs a redirect.
    */
    boolean isRedirectView();
}

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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/
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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-Traversals-20001113/
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The specification of DOM Level 1’s various parts is at:
http://www.w3.org/TR/1998/REC-DOM-Level-1-19981001/level-one.html.html

Links to all available W3C DOM Java Bindings can be found at:
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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/
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License for Dirent API for Microsoft Visual Studio used in the C implementation:
Source from:
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This product includes code from the Jackson library.

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

JsonStringEncoder from 1.9.13 has been copied into this project from jackson-core-asl:
<init>(S)VCodeLineNumberTableLocalVariableTablethisImmutableFsPermissionInnerClassesDLorg/apache/hadoop/fs/permission/FsPermission$ImmutableFsPermission;
permissionS
readFields(Ljava/io/DataInput;)VinLjava/io/DataInput;

Exceptions
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SourceFileAccessControlException.java
DeprecatedRuntimeVisibleAnnotationsLjava/lang/Deprecated;*PublicInnerClasses;Lorg/apache/hadoop/classification/InterfaceAudience$Public;,Stable<Lorg/apache/hadoop/classification/InterfaceStability$Stable;Permission denied.6org/apache/hadoop/fs/permission/AccessControlExceptionjava/io/IOException-
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THE SOFTWARE.
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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using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;

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+ */
+
+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;
diff --git a/lang/java/tools/src/test/java/org/apache/avro/tool/TestDataFileRepairTool.java
b/lang/java/tools/src/test/java/org/apache/avro/tool/TestDataFileRepairTool.java
index abd9683..70c3667 100644
--- a/lang/java/tools/src/test/java/org/apache/avro/tool/TestDataFileRepairTool.java
+++ b/lang/java/tools/src/test/java/org/apache/avro/tool/TestDataFileRepairTool.java
@@ -1,3 +1,20 @@
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+ */
+package org.apache.avro.tool;

import java.io.ByteArrayOutputStream;

---
1.7.9.5
3F
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-
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+ */

package org.apache.avro.tool;

import java.io.ByteArrayOutputStream;

---
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+ */

package org.apache.avro.tool;

import java.io.ByteArrayOutputStream;
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From 08e342c6af8f184b5d1633ce9abe46e4b44f1d32 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
---
.../src/main/java/org/apache/avro/Conversion.java | 18 ++++++++++++++++++
.../src/main/java/org/apache/avro/Conversions.java | 18 ++++++++++++++++++
.../src/main/java/org/apache/avro/LogicalType.java | 18 ++++++++++++++++++
.../main/java/org/apache/avro/LogicalTypes.java | 18 ++++++++++++++++++
.../java/org/apache/avro/data/TimeConversions.java | 18 ++++++++++++++++++
.../org/apache/avro/TestCircularReferences.java | 18 ++++++++++++++++++
.../test/java/org/apache/avro/TestLogicalType.java | 18 ++++++++++++++++++
.../org/apache/avro/data/TestTimeConversions.java | 18 ++++++++++++++++++
.../avro/generic/TestGenericLogicalTypes.java | 18 ++++++++++++++++++
.../avro/reflect/TestReflectLogicalTypes.java | 18 ++++++++++++++++++
10 files changed, 180 insertions(+)

diff --git a/lang/java/avro/src/main/java/org/apache/avro/Conversion.java
b/lang/java/avro/src/main/java/org/apache/avro/Conversion.java
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.math.BigDecimal;

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
// index f3750e7..14408d9 100644
// --- a/lang/java/avro/src/main/java/org/apache/avro/Conversions.java
// +++ b/lang/java/avro/src/main/java/org/apache/avro/Conversions.java
// @@ -1,3 +1,21 @@
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// */

package org.apache.avro;

import java.math.BigDecimal;

import java.nio.ByteBuffer;


diff --git a/lang/java/avro/src/main/java/org/apache/avro/LogicalType.java
b/lang/java/avro/src/main/java/org/apache/avro/LogicalType.java
index 3b18fe7..d701693 100644
--- a/lang/java/avro/src/main/java/org/apache/avro/LogicalType.java
+++ b/lang/java/avro/src/main/java/org/apache/avro/LogicalType.java
@@ -1,3 +1,21 @@
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+ */
+
package org.apache.avro;

import org.apache.avro.generic.GenericData;

diff --git a/lang/java/avro/src/main/java/org/apache/avro/LogicalTypes.java
b/lang/java/avro/src/main/java/org/apache/avro/LogicalTypes.java
index 5c7daf4..3f96340 100644
--- a/lang/java/avro/src/main/java/org/apache/avro/LogicalTypes.java
+++ b/lang/java/avro/src/main/java/org/apache/avro/LogicalTypes.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;

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 1b90eae2..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;

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 1b90eae2..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.generic;

import java.io.File;

diff --git 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
index 01ebba1..283433b 100644
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 */

package org.apache.avro.reflect;

import java.io.File;

//

1.7.9.5
3K

7
ImmutableFsPermissionInnerClasses

LOG

Lorg/apache/commons/logging/Log;FACTORY

&Lorg/apache/hadoop/io/WritableFactory;MAX_PERMISSION_LENGTH

ConstantValue

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

Permissions

readFields(Ljava/io/DataInput;)VinLjava/io/DataInput;readC(Ljava/io/DataInput;)Lorg/apache/hadoop/fs/permission/FsPermission;ptoShort()SstoExtendedShortequals(Ljava/lang/Object;)ZthatobjLjava/lang/Object;hashCode()ItoString()Ljava/lang/String;str2Ljava/lang/StringBuilder;str

applyUMask^(Lorg/apache/hadoop/fs/permission/FsPermission;)Lorg/apache/hadoop/fs/permission/FsPermission;umaskgetUMaskV(Lorg/apache/hadoop/conf/Configuration;)Lorg/apache/hadoop/fs/permission/FsPermission;typeerror

orae$Ljava/lang/IllegalArgumentException;

confUmaskoldUmaskconf&Lorg/apache/hadoop/conf/Configuration;getStickyBit()Z
getAclBitgetEncryptedBitsetUMaskW(Lorg/apache/hadoop/conf/Configuration;Lorg/apache/hadoop/fs/permission/FsPermission;)V

getDefaultValue(Lorg/apache/hadoop/fs/permission/FsPermission;
getDirDefaultFileDefaultCachePoolDefaultValueOfB(Ljava/lang/String;)Lorg/apache/hadoop/fs/permission/FsPermission;cCiunixSymbolicPermission3(Lorg/apache/hadoop/fs/permission/FsPermission$1;)Vx00Lorg/apache/hadoop/fs/permission/FsPermission$1;<clinit>

SourceFileFsPermission.javaRuntimeVisibleAnnotationsPublic:Lorg/apache/hadoop/classification/InterfaceAudience 
ecPublic;Stable<Lorg/apache/hadoop/classification/InterfaceStability$Stable;fgBorg/apache/hadoop/fs/permission/FsPermission$ImmutableFsPermissionfpRSTUSVWfnynzp+org/apache/hadoop/fs/permission/UmaskParserf
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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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+ * distributed with this work for additional information
+ * regarding copyright ownership. The ASF licenses this file
+ * to you under the Apache License, Version 2.0 (the
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+ * with the License. You may obtain a copy of the License at
+ *
+ * http://www.apache.org/licenses/LICENSE-2.0
+ *
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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.avro;

/*
 */
package org.apache.avro;

1.327 activiti-engine 6.0.0

1.328 activiti-bpmn-converter 6.0.0

1.329 hazelcast 3.7.8
1.329.1 Available under license:

22;com/hazelcast/security/permission/AtomicReferencePermission4com/hazelcast/security/permission/InstancePer-
missionAtomicReferencePermission.javaREADIMODIFYALL<Ljava/lang/String;Ljava/lang/String;>V
this=Lcom/hazelcast/security/permission/AtomicReferencePermission:nameLjava/lang/String;actions[Ljava/lang/Str-
инг;initMask([Ljava/lang/String;)IallLjava/lang/Stringequals(Ljava/lang/Object;)Z
create"read$modify$destroy(actionmask
ConstantValueCodeLocalVariableTableLineNumberTable

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null
INTERCEPTALL.<init>((Ljava/lang/String;[Ljava/lang/String;)V
this1Lcom/hazelcast/security/permission/MapPermission;nameLjava/lang/String;actions[Ljava/lang/String;initMask([Ljava/lang/String;)I all$java/lang/String&equals(Ljava/lang/Object;)Z
"*create,destroy.put0remove2read4listen6lock8index:intercept<actionmask
ConstantValueCodeLocalVariableTableLineNumberTable
StackMapTable
SourceFile!@ @
@
@@ @ AI*+,B C
!!!A=*N-66-2:%+++
=+/=1+=
n3+=5+=J7= =89+=+=;&;+=+==DB"> ?Cb%&"("(+0,7-A.H/R0Y1c2k3u4)56789:<&?D)##E
2F/com/hazelcast/security/permission/MapPermission4com/hazelcast/security/permission/InstancePermissionMapPermission.javaPUTIREMOVEREADLISTEN LOCK@INDEX
INTERCEPTALL.<init>((Ljava/lang/String;[Ljava/lang/String;)V
this1Lcom/hazelcast/security/permission/MapPermission;nameLjava/lang/String;actions[Ljava/lang/String;initMask([Ljava/lang/String;)I all$java/lang/String&equals(Ljava/lang/Object;)Z
"*create,destroy.put0remove2read4listen6lock8index:intercept<actionmask
ConstantValueCodeLocalVariableTableLineNumberTable
StackMapTable
SourceFile!@ @
@
@@ @ AI*+,B C
!!!A=*N-66-2:%+++
=+/=1+=
n3+=5+=J7= =89+=+=;&;+=+==DB"> ?Cb%&"("(+0,7-A.H/R0Y1c2k3u4)56789:<&?D)##E
22:com/hazelcast/security/permission/CountDownLatchPermission4com/hazelcast/security/permission/InstancePermissionCountDownLatchPermission.javaREADMODIFYALL.<init>((Ljava/lang/String;[Ljava/lang/String;)V
this1Lcom/hazelcast/security/permission/CountDownLatchPermission;nameLjava/lang/String;actions[Ljava/lang/String;initMask([Ljava/lang/String;)I all$java/lang/String&equals(Ljava/lang/Object;)Z
"create"destroy&modify(actionmask
ConstantValueCodeLocalVariableTableLineNumberTable
StackMapTable
SourceFile!,,.
-1*+, /
-o=+N-66^2:)!#
=4%!=
=#!
=node."O*oom+: !""#%/6(@)G*Q+x-b-g!n00$1
this5Lcom/hazelcast/security/permission/ActionConstants$4;createA(Ljava/lang/String;[Ljava/lang/String;Ljava/security/Permission;0com/hazelcast/security/permission/ListPermission((Ljava/lang/String;[Ljava/lang/String;Ljava/lang/String;V
nameLjava/lang/String;actions[Ljava/lang/String;CodeLocalVariableTableLineNumberTable
SourceFileEnclosingMethodInnerClasses0/*TH
Y+,

W!
2EIcom/hazelcast/security/permission/AllPermissions$AllPermissionsCollection"java/security/PermissionCollection
AllPermissions.java0com/hazelcast/security/permission/AllPermissions$AllPermissionsCollectionKcom/hazelcast/se-
curity/permission/AllPermissions$AllPermissionsCollection$1
ALL_PERMISSIONS2Lcom/hazelcast/security/permission/AllPermissions;allZ<init>()V
thisKLcom/hazelcast/security/permission/AllPermissions$AllPermissionsCollection;Z<V
addLjava/security/Permission;V
permissionLjava/security/Permission;implies(Ljava/security/Permission;);Zelements()Ljava/util/Enumeration;N(Lco-
m/hazelcast/security/permission/AllPermissions$AllPermissionsCollection;V

!hashCode()Ljava/lang/IdentityHashCode;Ljava/lang/Object;Ljava/lang/IdentityHashCode;Ljava/lang/Class;+)
(+objLjava/lang/Object;othertoString()Ljava/lang/String;<allow all permissions>2
access$000N(Lcom/hazelcast/security/permission/AllPermissions$AllPermissionsCollection;)Zx0
access$1004(Lcom/hazelcast/security/permission/AllPermissions;9<clinit>
CodeLocalVariableTableLineNumberTable
StackMapTableSignature5(Ljava/util/Enumeration<Ljava/security/Permission;>;>
SourceFileInnerClasses1
=
='?
?@=F
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?BCD=R
+**

?HIK@=9*>?O=3
Y*>?TAB#$=D*
>?@A%&=0++*+,+M*,> 00-.?"klno
qrtu@
@01=3?>z45=/*>6?;78=:;=#Y<.?<CD
2"3com/hazelcast/security/permission/ActionConstants$2java/lang/ObjectCcom/hazelcast/security/permission/Actio-
nConstants$PermissionFactoryActionConstants.java1com/hazelcast/security/permission/ActionConstantsPermission
Factory<init>()V

this5Lcom/hazelcast/security/permission/ActionConstants$2:createA(Ljava/lang/String;Ljava/lang/String;)Ljava/se-
curity/Permission;/com/hazelcast/security/permission/MapPermission((Ljava/lang/String;Ljava/lang/String;)V
nameLjava/lang/String;actions[Ljava/lang/String;CodeLocalVariableTableLineNumberTable
SourceFileEnclosingMethodInnerClasses0/*HH
Y+,

K!
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21com/hazelcast/security/permission/ActionConstants.java\nObjectActionConstants.java
Ccom/hazelcast/security/permission/ActionConstants$PermissionFactory
PermissionFactory.java
4com/hazelcast/security/permission/ActionConstants$17
4com/hazelcast/security/permission/ActionConstants$15

ACTION_ALLLjava/lang/String;all-
ACTION_CREATEmake0ACTION_DESTROYdestroy3
ACTION_MODIFYmodify6ACTION_READread9
ACTION_REMOVEmove<ACTION_LOCKlock?
ACTION_LISTENlistenBACTION_RELEASEreleaseE
ACTION_ACQUIREacquireH
ACTION_PUTputK
ACTION_ADDaddNACTION_INDEXindexQ
ACTION_INTERCEPTinterceptTACTION_PUBLISHpublishW
LISTENER_INSTANCEinstanceZLISTENER_MEMBERmember|LISTENER_MIGRATION

migration PERMISSION_FACTORY_MAPP.java/util/Map;hjava/util/Map\nLjava/lang/String;Lcom/hazelcast/security/permission/ActionConstants$PermissionFactory;\n\nVef
ghz:impl:queueService
*ghz:impl:queueService
g8(Ljava/lang/Object;Ljava/lang/Object;)Ljava/lang/Object;K
ghz:impl:mapService
*ghz:impl:mapService
ghz:impl:multiMapService
&ghz:impl:listService
S
ghz:impl:setService
"ghz:impl:atomicLongService
ghz:impl:countDownLatchService
ghz:impl:semaphoreService
ghz:impl:topicService
ghz:impl:lockService
ghz:impl:executorService
ghz:impl:idGeneratorService
ghz:impl:mapReduceService
ghz:impl:replicatedMapService
ghz:impl:atomicReferenceService
ghz:impl:cacheService

xg"No permissions found for service: zappend-(Ljava/lang/String;)Ljava/lang/StringBuilder;|

x~toString()Ljava/lang/String;v
x(Ljava/lang/String;)V
va(Ljava/lang/String;Ljava/lang/String;)Ljava/security/Permission;0
nameserviceNameactions[Ljava/lang/String;permissionFactoryELcom/hazelcast/security/permission/ActionConstants$PermissionFactory;\nc\njava/util/HashMap
ghz:impl:queueService
*ghz:impl:multiMapService
&ghz:impl:listService
S
ghz:impl:setService
"ghz:impl:atomicLongService
ghz:impl:countDownLatchService
ghz:impl:semaphoreService
ghz:impl:topicService
ghz:impl:lockService
ghz:impl:executorService
ghz:impl:idGeneratorService
ghz:impl:mapReduceService
ghz:impl:replicatedMapService
ghz:impl:atomicReferenceService
ghz:impl:cacheService

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ghz:impl:ringbufferService

ConstantValueSignatureCodeLocalVariableTableLineNumberTable
StackMapTable
SourceFileInnerClasses


this6Lcom/hazelcast/security/permission/ActionConstants$17;createA(Ljava/lang/String;[Ljava/lang/String;)Ljava/security/Permission;5com/hazelcast/security/permission/MapReducePermission((Ljava/lang/String;[Ljava/lang/String;)V

nameLjava/lang/String;actions[Ljava/lang/String;CodeLocalVariableTableLineNumberTable
SourceFileEnclosingMethodInnerClasses0/*H

2*5com/hazelcast/security/permission/MapReducePermission4com/hazelcast/security/permission/InstancePermissionMapReducePermission.javaALLI<init>((Ljava/lang/String;[Ljava/lang/String;)V

this7Lcom/hazelcast/security/permission/MapReducePermission;nameLjava/lang/String;actions[Ljava/lang/String;initMask([Ljava/lang/String;]alljava/lang/Stringequals(Ljava/lang/Object;)Z

createdestroy actionmask
ConstantValueCodeLocalVariableTableLineNumberTable
StackMapTable
SourceFile!$
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Open Source Used In Cisco Kinetic for Cities 4.1.0.02754

&'(*%,--F.R-X0`1k. - &CDh=*J+M*+,+-,+-<L*O,OUi*=>?=VW+X?(YZ];;
> @A.B.Ek
@[h/*c?j\b*_<h*+'<h*<`<`<a>ajOPQRhN*++*J+M*O,O*O*,+i N>?Nbc/d'?J:WXZ[
]^ a-b=d/e?gJhLjk
e.h#QYflj 1
2=com/hazelcast/security/permission/ClusterPermissionCollection"java/security/PermissionCollection
ClusterPermissionCollection.javapersmljava/util/Set;+Ljava/util/Set<Ljava/security/Permission;>
permClassLjava/lang/Class.;Ljava/lang/Class<Ljava/security/Permission;>;<init>()V
java/util/HashSet
this?Lcom/hazelcast/security/permission/ClusterPermissionCollection;(Ljava/lang/Class;)Vadd(Ljava/security/Permission;)V
isReadOnly()Z
java/lang/SecurityException )ClusterPermissionCollection is read-only!"(Ljava/lang/String;)V$
!%java/lang/Object.getClass()Ljava/lang/Class;)*
(equals(Ljava/lang/Object;)Z-
(/3com/hazelcast/security/permission/ClusterPermissionCollection<Ljava/security/Permission;)Z34
5
java/util/HashSet java/security/Permission;
shouldAddZ(Ljava/security/PermissionCollection;)Viterator(Ljava/util/Iterator;@A8Bjava/util/IteratorDhasNextF
EGnext()Ljava/lang/Object;IJEKjava/security/PermissionM
Oppermisions$Ljava/security/PermissionCollection;
N5compactremoveV
EWsetReadOnlyY
Zpermission0Ljava/util/Iterator<Ljava/security/Permission;>;:(Ljava/util/Iterator:elements()Ljava/util/Enumeration:jav
autil/Collectionenumenablement:(Ljava/util/Collection;Ljava/util/Enumeration;de
cfgetPermissions()Ljava/util/Enumeration<Ljava/util/Collection;Ljava/util/Enumeration;de
cltoString()Ljava/lang/String;java/lang/StringBuilderp
q'ClusterPermissionCollection [permClass=sappend-(Ljava/lang/String;)Ljava/lang/StringBuilder;u
qw-(Ljava/lang/Object;)Ljava/lang/StringBuilder;u
qm-JClusterPermissionCollection [permClass=sappend-(Ljava/lang/String;)Ljava/lang/StringBuilder;u
qz]no
q~
SignatureCodeLocalVariableTableLineNumberTableLocalVariableTypeTable1(Ljava/lang/Class++;Ljava/security/P
ermission;>;:);V
StackMapTable5()Ljava/util/Enumeration<Ljava/security/Permission;>;:-
()Ljava/util/Iterator<Ljava/security/Permission;>;;
SourceFile!
K**Y* !g**Y*+
$/%&K*
!Y#&**+,0
+2e=*+6*+:*W KK;<3>=*/3?0J2@?A*
!Y#&+++CM,H,LNN*-P 8Q<AARS56898;=:;@=E34,*CM,H,LNN+T
Q<,..<A%B'D*E
EU
;z*
!Y#&*CL+HT+LNM>*C:H&LN...,T>++X*[4QQ.<D<0B3>z_];_]pBIJLM$N.O0PQQ'RbSeUhlV1WrYuZy[ENE)
1.330 proxytoys 1.0
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- apacheds-xdbm-search-1.5.7.jar
- apacheds-xdbm-tools-1.5.7.jar
- apacheds_1.5.7.wso2v4.jar
- asm-3.3.1.jar
- asm_1.5.3.wso2v1.jar
- asm_3.1.0.wso2v1.jar
- axiom_1.2.11.wso2v1.jar
- axion_1.0.0.M3-dev-wso2v1.jar
- axis2-jaxbri_1.6.1.wso2v11.jar
- axis2-jaxbri_1.6.1.wso2v19.jar
- axis2-jibx_1.6.1.wso2v11.jar
- axis2-jaxbri_1.6.1.wso2v20.jar
- axis2-transport-mail_1.1.0.wso2v13.jar
- axis2_1.6.1.wso2v20.jar
- backport-util-concurrent_3.1.0.wso2v1.jar
- bcel_5.2.0.wso2v1.jar
- bcprov-jdk14-138.jar
- bcprov-jdk15-132.jar
- bcprov-jdk15on-1.52.jar
- bcprov-jdk15on-1.52.0.wso2v1.jar
- cassandra-thrift_1.12.13.wso2v4.jar
- cglib_2.2.0.wso2v1.jar
- com.google.gson_2.3.1.jar
- com.google.gson_2.7.0.jar
- com.google.guava_19.0.0.jar
- commons-beanutils-1.7.0.jar
- commons-cli_1.2.0.wso2v1.jar
- commons-collections_3.2.1.jar
- commons-collections_3.2.2.wso2v1.jar
- commons-codec_1.4.0.wso2v1.jar
- commons-collections-1.6.0.wso2v1.jar
- commons-dbcp_1.4.0.wso2v1.jar
- commons-digester-1.8.jar
- commons-fileupload_1.3.2.wso2v1.jar
- commons-httpclient_3.1.0.wso2v3.jar
- commons-io_2.4.0.wso2v1.jar
- commons-lang_2.6.0.wso2v1.jar
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- commons-logging-1.1.1.jar
- commons-pool_1.5.6.wso2v1.jar
- commons-primitives_1.0.0.wso2v1.jar
- compass_2.0.1.wso2v2.jar
- cors-filter_1.7.0.wso2v1.jar
- csrfguard_3.1.0.wso2v2.jar

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jabinbundle: apache2 466
jabinbundle: apache2 479
jabinbundle: apache2 478
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bundle: apache2 6220
jar: bsd 1268
bundle: bsd 1438
bundle: bsd 735
bundle: apache2 8489
bundle: apache2 2826
bundle: apache2 6219
bundle: apache2 8488
bundle: apache2 6218
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bundle: apache2 4381
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bundle: apache2 1007
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org.wso2.identity.styles_5.3.0.jar  bundle  apache2  10410
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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:
http://www.w3.org/TR/SVG11/java.html

1.333 spring-oxm 4.3.23
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package org.springframework.oxm;

import java.lang.reflect.Type;

/**
 * Subinterface of { @link Marshaller} that has support for Java 5 generics.
 *
 * @author Arjen Poutsma
 * @since 3.0.1
 */
public interface GenericMarshaller extends Marshaller {

/**
 * Indicates whether this marshaller can marshal instances of the supplied generic type.
 * @param genericType the type that this marshaller is being asked if it can marshal
 * @return { @code true} if this marshaller can indeed marshal instances of the supplied type;
 * { @code false} otherwise
 */
boolean supports(Type genericType);
}

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PCRE is a library of functions to support regular expressions whose syntax
and semantics are as close as possible to those of the Perl 5 language.

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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, and a
just-in-time compiler that can be used to optimize pattern matching. These
are both optional features that can be omitted when the library is built.

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PCRE JUST-IN-TIME COMPILATION SUPPORT

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zlib.h -- interface of the 'zlib' general purpose compression library
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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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1.338 dom4j 2.1.1

1.339 spring-boot-starter 1.5.9.RELEASE

1.340 hadoop 5.11.0
1.340.1 Available under license:

```
<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$1;)V0/*
*3Y
, 3-org/apache/hadoop/fs/permission/TestStickyBit.java/lang/ObjectTestStickyBit.java-
org/apache/hadoop/hdfs/MiniDFSCluster$Builder%org/apache/hadoop/hdfs/MiniDFSClusterBuilder11Lorg/apache/hadoop/security/UserGroupInformation;user2cluster'Lorg/apache/hadoop/hdfs/MiniDFSCluster;conf&Lorg/apache/hadoop/conf/Configuration;hdfs!Lorg/apache/hadoop/fs/FileSystem;hdfsAsUser1hdfsAsUser2<init>()V
this$Lorg/apache/hadoop/fs/permission/TestStickyBit;initjava/lang/Exception$Lorg/junit/BeforeClass;{org/apache/hadoop/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/fs/FileSystem;hdfsAsUser1hdfsAsUser2<init>()V
@B
getFileSystem0()Lorg/apache/hadoop/hdfs/DistributedFileSystem;DE
```
Open Source Used In Cisco Kinetic for Cities 4.1.0.02990

F: org/apache/hadoop/hdfs/DistributedFileSystem
org/junit/Assert: assertTrue()
M: O
TW:
Y: []
Z: setupLorg/junit/Before; org/apache/hadoop/fs/Path: b/d(Ljava/lang/String;)V
U:
cg: org/apache/hadoop/fs/FileSystem
jm:"[Lorg/apache/hadoop/fs/FileStatus;org/apache/hadoop/fs/FileStatus:getPath()Lorg/apache/hadoop/fs/Path; st: rудelete(Lorg/apache/hadoop/fs/Path;Z)Z
wx: jystat(Lorg/apache/hadoop/fs/FileStatus:arr$len$Ii$shutdownLorg/junit/AfterClass;java/io/Closeable
org/apache/hadoop/fs/io/IOUtilscleanup7(Lorg/apache/commons/logging/Log;[Ljava/io/Closeable;)V
confirmCanAppendD(Lorg/apache/hadoop/conf/Configuration;Lorg/apache/hadoop/fs/Path;)V
foo0(Lorg/apache/hadoop/fs/Path;Ljava/lang/String;)V
,org/apache/hadoop/fs/permission/FsPermission(S)V
setPermissionL(Lorg/apache/hadoop/fs/Path;Lorg/apache/hadoop/fs/permission/FsPermission;)V
jappendF(Lorg/apache/hadoop/fs/Path;);Lorg/apache/hadoop/fs/FSDataOutputStream;
j: Some more data: java/lang/StringgetBytes()[B
'org/apache/hadoop/fs/FSDataOutputStream:write([B)V
close java/lang/Throwable: p
Lorg/apache/hadoop/fs/Path;file: file2h)Lorg/apache/hadoop/fs/FSDataOutputStream:confirmDe-
letingFiles java/io/IOException: org/apache/hadoop/security/UserGroupInformation:getShortUserName()Ljava/lang/
String;

getStatus>(Lorg/apache/hadoop/fs/Path;)Lorg/apache/hadoop/fs/FileStatus;
getOwner
r: assertEqua: ls(Ljava/lang/Object;Ljava/lang/Object;)V
M: Shouldn't be able to delete someone else's file with SB onfailf
M1: org/apache/hadoop/security/AccessControlException:
getMessage
get

sticky bit: contains(Ljava/lang/CharSequence;)Z
java/lang/StringBuilder
user=-(Ljava/lang/String;)Ljava/lang/StringBuilder;
getUser: Name
toString
path="-(Ljava/lang/Object;Ljava/lang/StringBuilder;
"parent="getP: arnt
cioE java/io/IOException:confirmStickyBitDoesnPropagatebarmkdirs(Lorg/apache/hadoop/fs/Path;)Z
j
getPermission0(Lorg/apache/hadoop/fs/permission/FsPermission;
getStickyBit()Z
assertFalse
<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>
<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/FsPermission.html" target="_top">Frames</a></li>
<li><a href="FsPermission.html" target="_top">No Frames</a></li>
</ul>
<ul class="navList id="allclasses_navbar_top">
<li><a href="../../../../allclasses-noframe.html">All Classes</a></li>
</ul>
<div>
<script type="text/javascript">--
allClassesLink = document.getElementById("allclasses_navbar_top");
if(window==top) {
    allClassesLink.style.display = "block";
} else {
    allClassesLink.style.display = "none";
}
//-->
</script>
</div>
a name="skip-navbar_top"
<!-- -->
</a></div>
<!-- END OF TOP NAVBAR ======== -->
<div class="header">
<h2 title="Uses of Class org.apache.hadoop.fs.permission.FsPermission" class="title">Uses of Class org.apache.hadoop.fs.permission.FsPermission</h2>
<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/FsPermission.html" title="class in org.apache.hadoop.fs.permission">FsPermission</a></span><span class="tabEnd"></span></caption>
<tr>
</table>
</ul>
</div>
</div>
<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>Supporting classes for metrics instrumentation.</td>
</tr>
<tr>
<td>org.apache.hadoop.fs.azure</td>
<td>A distributed implementation of FileSystem for reading and writing files on Azure Block Storage.</td>
</tr>
<tr>
<td>org.apache.hadoop.fs.ftp</td>
<td></td>
</tr>
<tr>
<td>org.apache.hadoop.fs.permission</td>
<td>This package provides support for HDFS permission and ACL.</td>
</tr>
<tr>
<td>org.apache.hadoop.fs.s3</td>
<td>A distributed, block-based implementation of FileSystem that uses Amazon S3 as a backing store.</td>
</tr>
<tr>
<td>org.apache.hadoop.fs.s3native</td>
<td></td>
</tr>
</tbody>
</table>
A distributed implementation of FileSystem for reading and writing files on Amazon S3.

### Uses of FsPermission in org.apache.hadoop.fs

<table>
<thead>
<tr>
<th>Modifier and Type</th>
<th>Field and Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>static</td>
<td>FileContext.DEFAULT_PERM</td>
</tr>
<tr>
<td>Default permission for directory and symlink</td>
<td></td>
</tr>
</tbody>
</table>

In previous versions, this default permission was also used to create files, so files created end up with ugo+x permission.
Default permission for directory

Default permission for file

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

- `FileStatus.getPermission()`: Get FsPermission associated with the file.

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

- `FileContext.getUMask()`: Get UMask.
<th class="colLast" scope="col">Method and Description</th>
</tr>
</tbody><tr class="altColor">
<td class="colFirst"><code>static <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#create(org.apache.hadoop.fs.FileSystem,%20org.apache.hadoop.fs.Path,%20org.apache.hadoop.fs.permission.FsPermission)">create</a></strong>(<a href="../../../../../../org/apache/hadoop/fs/FileSystem.html" title="class in org.apache.hadoop.fs">FileSystem</a>&nbsp;fs,<a href="../../../../../../org/apache/hadoop/fs/Path.html" title="class in org.apache.hadoop.fs">Path</a>&nbsp;file,<a href="../../../../../../org/apache/hadoop/fs/permission/FsPermission.html" title="class in org.apache.hadoop.fs.permission">FsPermission</a>&nbsp;permission)</code><div class="block">create a file with the provided permission
The permission of the file is set to be the provided permission as in
setPermission, not permission&~umask
It is implemented using two RPCs.</div></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">FilterFileSystem.</span><code><strong><a href="../../../../../../org/apache/hadoop/fs/FilterFileSystem.html#create(org.apache.hadoop.fs.Path,%20org.apache.hadoop.fs.permission.FsPermission,%20boolean,%20int,%20short,%20long,%20org.apache.hadoop.util.Progressable)" title="interface in org.apache.hadoop.util">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,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>&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">RawLocalFileSystem.</span><code><strong><a href="../../../../../../org/apache/hadoop/fs/RawLocalFileSystem.html#create(org.apache.hadoop.fs.Path,%20org.apache.hadoop.fs.permission.FsPermission,%20boolean,%20int,%20short,%20long,%20org.apache.hadoop.util.Progressable)" title="interface in org.apache.hadoop.util">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&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)></td>
</tr>
</tbody></table>
</div>
</div>
org.apache.hadoop.fs.permission">FsPermission</a>&nbsp;permission,
  boolean&nbsp;overwrite,
  int&nbsp;bufferSize,
  short&nbsp;replication,
  long&nbsp;blockSize,
  &lt;a href="../../../org/apache/hadoop/util/Progressable.html" title="interface in
org.apache.hadoop.util">Progressable</a>&nbsp;progress)&nbsp;</code>&nbsp;</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">ChecksumFileSystem.</span><code><strong><a href="../../../org/apache/hadoop/fs/ChecksumFileSystem.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,
FsPermission,&nbsp;overwrite,
int&nbsp;bufferSize,
short&nbsp;replication,
long&nbsp;blockSize,
&la...
Create an FSDataOutputStream at the indicated Path with write-progress reporting.

Create an FSDataOutputStream at the indicated Path with write-progress reporting.
Create an FSDataOutputStream at the indicated Path with a custom checksum option

The specification of this method matches that of
AbstractFileSystem.create(Path, EnumSet, Options.CreateOpts...) except that the opts have been declared explicitly.

The specification of this method matches that of
AbstractFileSystem.create(Path, EnumSet, Options.CreateOpts...) except that the opts have been declared explicitly.

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AbstractFileSystem.create(Path, EnumSet, Options.CreateOpts...) except that the opts have been declared explicitly.

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AbstractFileSystem.create(Path, EnumSet, Options>CreateOpts...) except that the opts have been declared explicitly.
<table>
<thead>
<tr>
<th>Class</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>ChecksumFileSystem</td>
<td><code>createNonRecursive(Path f, FsPermission perm, boolean overwrite, int bufferSize, short replication, long blockSize, Progressable progress)</code></td>
</tr>
<tr>
<td>FileSystem</td>
<td><code>createNonRecursive(Path f, FsPermission perm, boolean overwrite, int bufferSize, short replication, long blockSize, Progressable progress)</code></td>
</tr>
<tr>
<td>FilterFileSystem</td>
<td>createNonRecursive(Path f, FsPermission permission, EnumSet&lt;CreateFlag&gt; flags, int bufferSize, short replication, long blockSize, Progressable progress)</td>
</tr>
<tr>
<td>-----------------</td>
<td>---------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>RawLocalFileSystem</td>
<td>createNonRecursive(Path f, FsPermission permission, EnumSet&lt;CreateFlag&gt; flags, int bufferSize, short replication, long blockSize, Progressable progress)</td>
</tr>
</tbody>
</table>

*Deprecated.*
<table>
<thead>
<tr>
<th>FileSystem.createNonRecursive(Path, FsPermission, EnumSet, int, short, long, Progressable)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deprecated. API only for 0.20-append.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FileSystem.createOutputStreamWithMode(Path, boolean, FsPermission)</th>
</tr>
</thead>
<tbody>
<tr>
<td>API only for 0.20-append.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FileContext.mkdir(Path, FsPermission, boolean)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Make(create) a directory and all the non-existent parents.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Abstract void</th>
</tr>
</thead>
<tbody>
<tr>
<td>Make(create) a directory and all the non-existent parents.</td>
</tr>
<tr>
<td>Class</td>
</tr>
<tr>
<td>--------------------------------------------</td>
</tr>
<tr>
<td>AbstractFileSystem</td>
</tr>
<tr>
<td>FileSystem</td>
</tr>
<tr>
<td>FilterFileSystem</td>
</tr>
<tr>
<td>RawLocalFileSystem</td>
</tr>
</tbody>
</table>

The specification of this method matches that of `FileContext.mkdir(Path, FsPermission, boolean)` except that the Path must be fully qualified and the permission is absolute (i.e., `false`).
Open Source Used In Cisco Kinetic for Cities 4.1.0.03005

```java
abstract boolean FileSystem.mkdirs(Path f, FsPermission permission)

Make the given file and all non-existent parents into directories.
```

```java
protected boolean RawLocalFileSystem.mkOneDirWithMode(Path p, File p2f, FsPermission permission)
```

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

```java
protected FSDataOutputStream FileSystem.createNewPath(Path f, FsPermission permission, EnumSet<CreateFlag> flag, int bufferSize, short replication, long blockSize, Progressable progress, Options.ChecksumOpt checksumOpt)
```

```java
FileOutputStream createStream(Path f, FsPermission permission, EnumSet<CreateFlag> flag, int bufferSize, short replication, long blockSize, Progressable progress, Options.ChecksumOpt checksumOpt, Progressable progressable)
```
<table>
<thead>
<tr>
<th>Method</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>primitiveCreate(Path f, FsPermission absolutePermission, EnumSet&lt;CreateFlag&gt; flag, int bufferSize, short replication, long blockSize, Progressable progress, Options.ChecksumOpt checksumOpt)</code></td>
<td>This method is deprecated.</td>
</tr>
<tr>
<td><code>primitiveMkdir(Path f, FsPermission absolutePermission)</code></td>
<td>This method is deprecated.</td>
</tr>
<tr>
<td><code>primitiveMkdir(Path f, FsPermission absolutePermission, boolean createParent)</code></td>
<td>This method is deprecated.</td>
</tr>
<tr>
<td>FileUtil</td>
<td>static void setPermission(File, FsPermission)</td>
</tr>
<tr>
<td>----------</td>
<td>---------------------------------------------</td>
</tr>
<tr>
<td>FileStatus</td>
<td>protected void setPermission(FsPermission)</td>
</tr>
<tr>
<td>FilterFileSystem</td>
<td>void setPermission(Path, FsPermission)</td>
</tr>
<tr>
<td>RawLocalFileSystem</td>
<td>void setPermission(Path, FsPermission)</td>
</tr>
<tr>
<td>ChecksumFileSystem</td>
<td>void setPermission(Path, FsPermission)</td>
</tr>
</tbody>
</table>

Set permissions to the required value.

Sets permission.

Use the command chmod to set permission.

Use the command chmod to set permission.
### `FileContext.setPermission(Path, FsPermission)`

- **Return Type:** `void`
- **Parameters:**
  - `Path f`: The path to set the permission for.
  - `FsPermission permission`: The permission to set.

#### Description:
Set permission of a path.

### `AbstractFileSystem.setPermission(Path, FsPermission)`

- **Return Type:** `abstract void`
- **Parameters:**
  - `Path f`: The path to set the permission for.
  - `FsPermission permission`: The permission to set.

#### Description:
The specification of this method matches that of `FileContext.setPermission(Path, FsPermission)` except that `Path f` must be for this file system.

### `FileSystem.setPermission(Path, FsPermission)`

- **Return Type:** `void`
- **Parameters:**
  - `Path p`: The path to set the permission for.
  - `FsPermission permission`: The permission to set.

#### Description:
Set permission of a path.

### `FileContext.setUMask(FsPermission)`

- **Return Type:** `void`
- **Parameters:**
  - `FsPermission newUmask`: The new umask to set.

#### Description:
Set umask of a path.
Set umask to the supplied parameter.

Constructors in `org.apache.hadoop.fs.FileStatus` with parameters of type `org.apache.hadoop.fs.permission.FsPermission`:

- Constructor for file systems on which symbolic links are not supported.

```java
FileStatus(long length, boolean isdir, int block_replication, long blocksize, long modification_time, long access_time, FsPermission permission, String owner, String group, Path path)
```

“Constructor for file systems on which symbolic links are not supported”
<table>
<thead>
<tr>
<th>Method</th>
<th>Parameters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Constructor</td>
<td><code>LocatedFileStatus(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, BlockLocation[] locations)</code></td>
</tr>
</tbody>
</table>

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

- `FsPermission()` with parameters of type `FsPermission`.
- `FsPermission()` in `org.apache.hadoop.fs.adl/package-summary.html`.

## Methods in `org.apache.hadoop.fs.adl` package

- `Methods in `org.apache.hadoop.fs.adl` package with parameters of type `FsPermission`.
- `Methods in `org.apache.hadoop.fs.adl` package with parameters of type `BlockLocation[]`.

---

Title: Open Source Used In Cisco Kinetic for Cities 4.1.0.03010
<table>
<thead>
<tr>
<th>Modifier and Type</th>
<th>Method and Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>FSDataOutputStream</code></td>
<td><code>AdlFileSystem.create(Path f, FsPermission permission, boolean overwrite, int bufferSize, short replication, long blockSize)</code></td>
</tr>
<tr>
<td></td>
<td>Create call semantic is handled differently in case of ADL.</td>
</tr>
</tbody>
</table>

```
<code>
public FSDataOutputStream create(Path f, FsPermission permission, boolean overwrite, int bufferSize, short replication, long blockSize)

*Create call semantic is handled differently in case of ADL.*
</code>
```

<table>
<thead>
<tr>
<th><code>FSDataOutputStream</code></th>
<th><code>AdlFileSystem.createNonRecursive(Path f, FsPermission permission, EnumSet flags, int bufferSize, short replication, long blockSize)</code></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Deprecated.</strong> Since ADL only supports Java 1.2. For ADL 0.20, use <code>create(Path f, FsPermission permission, boolean overwrite, int bufferSize, short replication, long blockSize)</code>.</td>
</tr>
</tbody>
</table>

```
<code>
public FSDataOutputStream createNonRecursive(Path f, FsPermission permission, EnumSet flags, int bufferSize, short replication, long blockSize)

*API only for 0.20-append.*
</code>
```
<tr class="altColor">
<td class="colFirst"><code>boolean</code></td>
<td class="colLast"><span class="strong">AdlFileSystem.</span><code><strong><a href="../../../../../../org/apache/hadoop/fs/adl/AdlFileSystem.html#mkdirs(org.apache.hadoop.fs.Path,%20org.apache.hadoop.fs.permission.FsPermission)"
>mkdirs</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><div class="block">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)"
isetPermission</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><div class="block">Set permission of a path.</div></td>
</tr>

<li class="blockList"><a name="org.apache.hadoop.fs.azure">
</a>
<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">&nbsp;</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/FSDataOutputStream.html" title="class in org.apache.hadoop.fs">FSDataOutputStream</a></code></td>
</tr>
</tbody>
</table>
</li>
<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>

<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>
<table>
<thead>
<tr>
<th>Modifier and Type</th>
<th>Method and Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>boolean</code></td>
<td><code>NativeAzureFileSystem.mkdirs(Path f, FsPermission permission)</code></td>
</tr>
<tr>
<td><code>boolean</code></td>
<td><code>NativeAzureFileSystem.mkdirs(Path f, FsPermission permission, boolean noUmask)</code></td>
</tr>
<tr>
<td><code>void</code></td>
<td><code>NativeAzureFileSystem.setPermission(Path p, FsPermission permission)</code></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Modifier and Type</th>
<th>Method and Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>boolean</code></td>
<td><code>org.apache.hadoop.fs.ftp.setPermission(Path p, FsPermission permission)</code></td>
</tr>
</tbody>
</table>

### Uses of `FsPermission` 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>void</code></td>
<td><code>org.apache.hadoop.fs.permission.setPermission(Path p, FsPermission permission)</code></td>
</tr>
<tr>
<td>Class</td>
<td>Description</td>
</tr>
<tr>
<td>------------------------------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td><code>FSDataOutputStream</code></td>
<td>A stream obtained via this call must be closed before using other APIs of</td>
</tr>
<tr>
<td></td>
<td>this class or else the invocation will block.</td>
</tr>
<tr>
<td><code>boolean</code></td>
<td></td>
</tr>
<tr>
<td><code>mkdirs</code></td>
<td></td>
</tr>
</tbody>
</table>

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

- **Modifier and Type**: `class org.apache.hadoop.fs.permission.FsCreateModes` for `FsCreateModes` in `org.apache.hadoop.fs.permission`
- **Class and Description**: `class in org.apache.hadoop.fs.permission` for `org.apache.hadoop.fs.permission.FsCreateModes` in `org.apache.hadoop.fs.permission`

**Table**: Uses of `FsPermission` in `org.apache.hadoop.fs.permission`<br>
<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>class org.apache.hadoop.fs.permission.FsCreateModes</code></td>
<td><code>Modifier and Type</code>: <code>class org.apache.hadoop.fs.permission.FsCreateModes</code> in <code>org.apache.hadoop.fs.permission</code></td>
</tr>
<tr>
<td><code>class org.apache.hadoop.fs.permission.FsPermission</code></td>
<td><code>Class and Description</code>: <code>class in org.apache.hadoop.fs.permission</code> for <code>org.apache.hadoop.fs.permission.FsCreateModes</code> in <code>org.apache.hadoop.fs.permission</code></td>
</tr>
</tbody>
</table>
A class that stores both masked and unmasked create modes and is a drop-in replacement for masked permission.

Methods that return `FsPermission`:

<table>
<thead>
<tr>
<th>Modifier and Type</th>
<th>Method and Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>FsPermission</code></td>
<td><code>applyUMask(FsPermission umask)</code></td>
</tr>
<tr>
<td><code>static FsPermission</code></td>
<td><code>applyUMask(FsPermission mode, FsPermission umask)</code></td>
</tr>
<tr>
<td><code>static FsPermission</code></td>
<td><code>createImmutable(short permission)</code></td>
</tr>
</tbody>
</table>

Create from unmasked mode and umask:

Create an immutable object.

Object
<tr class="rowColor">
<td class="colFirst"><code>static <a href="../../../../../../org/apache/hadoop/fs/permission/FsPermission.html" title="class in org.apache.hadoop.fs.permission">FsPermission</a></code></td>
<td class="colLast"><span class="strong">FsPermission.</span><code><strong><a href="../../../../../../org/apache/hadoop/fs/permission/FsPermission.html#getCachePoolDefault()">getCachePoolDefault()</a></strong>()</code>
<div class="block">Get the default permission for cache pools.</div></td>
</tr>
<tr class="rowColor">
<td class="colFirst"><code>static <a href="../../../../../../org/apache/hadoop/fs/permission/FsPermission.html" title="class in org.apache.hadoop.fs.permission">FsPermission</a></code></td>
<td class="colLast"><span class="strong">FsPermission.</span><code><strong><a href="../../../../../../org/apache/hadoop/fs/permission/FsPermission.html#getDefault()">getDefault()</a></strong>()</code>
<div class="block">Get the default permission for directory and symlink.</div></td>
</tr>
<tr class="rowColor">
<td class="colFirst"><code>static <a href="../../../../../../org/apache/hadoop/fs/permission/FsPermission.html" title="class in org.apache.hadoop.fs.permission">FsPermission</a></code></td>
<td class="colLast"><span class="strong">FsPermission.</span><code><strong><a href="../../../../../../org/apache/hadoop/fs/permission/FsPermission.html#getDirDefault()">getDirDefault()</a></strong>()</code>
<div class="block">Get the default permission for directory.</div></td>
</tr>
<tr class="rowColor">
<td class="colFirst"><code>static <a href="../../../../../../org/apache/hadoop/fs/permission/FsPermission.html" title="class in org.apache.hadoop.fs.permission">FsPermission</a></code></td>
<td class="colLast"><span class="strong">FsPermission.</span><code><strong><a href="../../../../../../org/apache/hadoop/fs/permission/FsPermission.html#getFileDefault()">getFileDefault()</a></strong>()</code>
<div class="block">Get the default permission for file.</div></td>
</tr>
<tr class="rowColor">
<td class="colFirst"><code><a href="../../../../../../org/apache/hadoop/fs/permission/FsPermission.html" title="class in org.apache.hadoop.fs.permission">FsPermission</a></code></td>
<td class="colLast"><span class="strong">FsCreateModes.</span><code><strong><a href="../../../../../../org/apache/hadoop/fs/permission/FsCreateModes.html#getMasked()">getMasked()</a></strong>()</code>
</td>
</tr>
<tr class="rowColor">
<td class="colFirst"><code><a href="../../../../../../org/apache/hadoop/fs/permission/FsPermission.html" title="class in org.apache.hadoop.fs.permission">FsPermission</a></code></td>
<td class="colLast"><span class="strong">FsCreateModes.</span><code><strong><a href="../../../../../../org/apache/hadoop/fs/permission/FsCreateModes.html#getMasked()">getMasked()</a></strong>()</code>
</td>
</tr>
### FsPermission

**getMasked()**

Get masked permission if exists.

**getPermission()**

Returns the permission set for the path.

**getUMask(Configuration)**

Get the user file creation mask (umask)

**getUnmasked()**

Get unmasked permission if exists.
### 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</td>
<td>FsPermission.valueOf(String)</td>
</tr>
</tbody>
</table>

#### Description

Create a FsPermission from a Unix symbolic permission string.

### Methods in FsCreateModes

<table>
<thead>
<tr>
<th>Modifier and Type</th>
<th>Method and Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>static</td>
<td>applyUMask(org.apache.hadoop.fs.permission.FsPermission, FsPermission)</td>
</tr>
</tbody>
</table>

#### Description

Apply a umask to this permission and return a new one.
Create from unmasked mode and umask.

Create from masked and unmasked modes.

Get the effective permission for the AclEntry.

Set the user file creation mask (umask).
Constructors in org.apache.hadoop.fs.permission with parameters of type FsPermission

<table>
<thead>
<tr>
<th>Constructor and Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>FsPermission(FsPermission other)</code></td>
</tr>
<tr>
<td>Copy constructor</td>
</tr>
</tbody>
</table>

Uses of FsPermission in org.apache.hadoop.fs.s3

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

<table>
<thead>
<tr>
<th>Modifier and Type</th>
<th>Method and Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>FSDataOutputStream</code></td>
<td><code>S3FileSystem.create(Path path, FsPermission permission, boolean overwrite, int bufferSize, short replication, Progressable progress)</code></td>
</tr>
</tbody>
</table>

Uses of FsPermission in org.apache.hadoop.fs.s3
long blockSize,
<a href="../../../../../../org/apache/hadoop/util/Progressable.html" title="interface in org.apache.hadoop.util">Progressable</a>&nbsp;progress)</code></pre><div class="block"><strong>Deprecated.</strong>&nbsp;</div>&nbsp;</td></tr><tr class="rowColor">
<td class="colFirst"><code>boolean</code></td>
<td class="colLast"><span class="strong">S3FileSystem.</span><code><strong><a href="../../../../../../org/apache/hadoop/fs/s3/S3FileSystem.html#mkdirs(org.apache.hadoop.fs.Path,%20org.apache.hadoop.fs.permission.FsPermission)" title="class in org.apache.hadoop.fs">mkdirs</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></pre><div class="block"><strong>Deprecated.</strong>&nbsp;</div>&nbsp;</td></tr></tbody></table><li class="blockList"><a name="org.apache.hadoop.fs.s3native">
<!--   -->
</a>
<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/s3native/package-summary.html">org.apache.hadoop.fs.s3native</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/s3native/package-summary.html">org.apache.hadoop.fs.s3native</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><tbody><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">NativeS3FileSystem.</span><code><strong><a href="../../../../../../org/apache/hadoop/fs/s3native/NativeS3FileSystem.html#create(org.apache.hadoop.fs.Path,%20org.apache.hadoop.fs.permission.FsPermission,%20boolean,%20int,%20short,%20long,%20org.apache.hadoop.util.Progressable)" title="class in org.apache.hadoop.fs">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&nbsp;overwrite,
int&nbsp;bufferSize,
short replication,
long blockSize,
<a href="/org/apache/hadoop/util/Progressable.html" title="interface in org.apache.hadoop.util">Progressable</a>&nbsp;progress)
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Modifier and Type</th>
<th>Method and Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;code&gt;boolean&lt;/code&gt;</td>
<td>&lt;code&gt;NativeS3FileSystem.mkdirs(&lt;/code&gt;&lt;a href=&quot;/org/apache/hadoop/fs/Path.html&quot; title=&quot;class in org.apache.hadoop.fs&quot;&gt;Path&lt;/a&gt; f,&lt;a href=&quot;/org/apache/hadoop/fs/permission/FsPermission.html&quot; title=&quot;class in org.apache.hadoop.fs.permission&quot;&gt;FsPermission&lt;/a&gt; permission)&lt;/code&gt; </td>
</tr>
<tr>
<td>&lt;code&gt;FsDataOutputStream&lt;/code&gt;</td>
<td>&lt;code&gt;ViewFileSystem.create(&lt;/code&gt;&lt;a href=&quot;/org/apache/hadoop/fs/Path.html&quot; title=&quot;class in org.apache.hadoop.fs&quot;&gt;Path&lt;/a&gt; f,&lt;a href=&quot;/org/apache/hadoop/fs/permission/FsPermission.html&quot; title=&quot;class in org.apache.hadoop.fs.permission&quot;&gt;FsPermission&lt;/a&gt; permission,&lt;a href=&quot;/org/apache/hadoop/util/Progressable.html&quot; title=&quot;interface in org.apache.hadoop.util&quot;&gt;Progressable&lt;/a&gt; overwrite,int bufferSize,short replication,long blockSize)&lt;/code&gt; </td>
</tr>
</tbody>
</table>
org.apache.hadoop.util.Progressable</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;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&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

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ViewFileSystem.mkdirs(Path dir, FsPermission permission, boolean createParent)

ViewFileSystem.mkdirs(Path dir, FsPermission permission)

setPermission(Path f, FsPermission permission)

setPermission(Path f, FsPermission permission)
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2000-05-05
3

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* * * *

InnerClassesBuilderownerLjava/lang/String;group	stickyBitZentriesLjava/util/List;
Signature<Ljava/util/List<Lorg/apache/hadoop/fs/permission/AclEntry;>;permission.Lorg/apache/hadoop/fs/permission/FsPermission;getOwner()Ljava/lang/String;CodeLineNumberTableLocalVariableTablethis+Lorg/apache/hadoop/fs/permission/AclStatus;getGroupisStickyBit()Z
getEntries()Ljava/util/List;>()Ljava/util/List<Lorg/apache/hadoop/fs/permission/AclEntry;>
getPermission0()Lorg/apache/hadoop/fs/permission/FsPermission;equals(Ljava/lang/Object;)ZoLjava/lang/Object;other
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StackMapTable\}hashCode()ItoString<init>j(Ljava/lang/String;Ljava/lang/String;ZLjava/lang/Iterable;Lorg/apache/hadoop/fs/permission/FsPermission;)VLocalVariableTypeTable@Ljava/lang/Iterable<Lorg/apache/hadoop/fs/permission/AclEntry;>;(Ljava/lang/String;Ljava/lang/String;ZLjava/lang/Iterable;Lorg/apache/hadoop/fs/permission/AclEntry;>)Lorg/apache/hadoop/fs/permission/AclEntry;entryPerm*Lorg/apache/hadoop/fs/permission/FsAction;defaultMaskPermArgExceptions(Ljava/lang/String;Ljava/lang/String;ZLjava/lang/Iterable;Lorg/apache/hadoop/fs/permission/FsPermission;Lorg/apache/hadoop/fs/permission/AclStatus$1;)Vx0x1x2x3x4x5-Lorg/apache/hadoop/fs/permission/AclStatus$1;SourceFileAclStatus.javaRuntimeVisibleAnnotationsPublic;Lorg/apache/hadoop/classification/InterfaceAudience$Public;Evolve\ngroup;acl:{entries:
, stickyBit: S<Z^CPermission bits are not available to calculate effective permission<HKR6Passed default ACL entry not found in the list of ACLs(org/apache/hadoop/fs/permission/AclEntry+org/apache/hadoop/fs/permission/AclStatus$1org/apache/hadoop/fs/permission/AclStatusBuilder$1java/lang/IllegalArgumentException9org/apache/hadoop/classification/InterfaceAudience$Public;EvolvinggetClass());Ljava/lang/Class;com/google/common/base/Objectsequal(Ljava/lang/Object;Ljava/lang/Object;);Ljava/lang/BooleanValueOf(Z)Ljava/lang/Boolean
;{(Ljava/lang/Object;);com/google/common/collect/ListsnewArrayList+(Ljava/lang/Iterable;)Ljava/util/ArrayList;$com/google/common/base/Preconditions
checkArgument(ZLjava/lang/Object;)VgetNamegetType0()Lorg/apache/hadoop/fs/permission/AclEntryType;org/apache/hadoop/fs/permission/AclEntryTypeGROUP.Lorg/apache/hadoop/fs/permission/AclEntryType;getScope();Lorg/apache/hadoop/fs/permission/AclEntryScope;getScope();Lorg/apache/hadoop/fs/permission/AclEntryScope;ACCESS/Lorg/apache/hadoop/fs/permission/AclEntryScope;GROUP/Lorg/apache/hadoop/fs/permission/AclEntryScope;FILE/Lorg/apache/hadoop/fs/permission/AclEntryScope;ADMIN/Lorg/apache/hadoop/fs/permission/AclEntryScope;基本上

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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;
@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]*)([+=-]+)([rwxt]*)([,\\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;
}
}
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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.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.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 {
        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 static void init() throws Exception {
        init();
    }

    @Test
    void testStickyBit() throws Exception {
        FSDataOutputStream out = new FSDataOutputStream(hdfs.create(new Path("/test"), true));
        out.writeBytes("Hello, World!");
        out.close();

        FileStatus stickyFile = DFSTestUtil.getFileStatusAs(user1, hdfs, new Path("/test"));
        assertEquals(stickyFile.getPermission(), 05775);
    }
}
@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();
    }
}

/**
 * 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() + "\" ");
    } }
/**
 * Test that if a directory is created in a directory that has the sticky bit
 * on, the new directory does not automatically get a sticky bit, as is
 * standard Unix behavior
 */
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());
} }
/**
 * Test basic ability to get and set sticky bits on files and directories.
 */
private void confirmSettingAndGetting(FileSystem hdfs, Path p, Path baseDir)
    throws IOException {
    // Initially sticky bit should not be set
    assertFalse(hdfs.getFileStatus(p).getPermission().getStickyBit());

    // Same permission, but with sticky bit on
    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, "rogue traders");
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, "roguertraders");

    hdfs.mkdirs(p);
applyAcl(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));
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");

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

// Two directories had their 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.isDirectory(sbSet));
    assertTrue(hdfs.getFileStatus(sbSet).getPermission().getStickyBit());

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

    assertTrue(hdfs.exists(sbSetOff));
    assertFalse(hdfs.isDirectory(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 their 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));
assertFalse(hdfs.getFileStatus(sbNotSpecified).getPermission().getStickyBit());

assertTrue(hdfs.exists(sbSetOff));
assertFalse(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();
        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)));
}
}
<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.FsAction (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.FsAction (Apache Hadoop Main 2.6.0-cdh5.11.0 API)";
}
//-->
<!-- ========= START OF TOP NAVBAR ======= -->
<div class="topNav"><a name="navbar_top" title="Navigation"></a><a href="#skip-navbar_top" title="Skip navigation links"></a><a name="navbar_top_firstrow" title="Navigation"></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/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>
</ul>
</div>
<!-- ======== END OF TOP NAVBAR ======= -->
<div class="topNavDivider"></div>
<div class="containerBodyContent">
<div class="skipNav"><a name="skip-navbar_top" title="Skip navigation links"></a><a href="#skip-navbar_top" title="Skip navigation links"></a><a name="skip-navbar_top_firstrow" title="Skip navigation links"></a></div>
<noscript>
<div>JavaScript is disabled on your browser.</div>
</noscript>
</div>
</body>
</html>
<table>
<thead>
<tr>
<th>Class</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>Supporting classes for metrics instrumentation.</td>
</tr>
<tr>
<td>org.apache.hadoop.fs.permission</td>
<td>This package provides support for HDFS permission and ACL.</td>
</tr>
<tr>
<td>org.apache.hadoop.fs.viewfs</td>
<td></td>
</tr>
</tbody>
</table>

- Uses of `FsAction` in `org.apache.hadoop.fs.permission` with parameters of type
- Method and Description
- Modifier and Type
- FilterFileSystem
<li class="blockList">
  <a href="/.../org/apache/hadoop/fs/FilterFileSystem.html#access(org.apache.hadoop.fs.Path,%20org.apache.hadoop.fs.permission.FsAction)">access</a>
</li>

<a href="/.../org/apache/hadoop/fs/Path.html" title="class in org.apache.hadoop.fs">Path</a>&nbsp;/a>&nbsp;&amp;nbsp;path,

  <a href="/.../org/apache/hadoop/fs/permission/FsAction.html" title="enum in org.apache.hadoop.fs.permission">FsAction</a>&lt;/a>&nbsp;&amp;nbsp;mode)&lt;/code&gt;&lt;/div&gt;
&lt;/td&gt;
&lt;/tr&gt;

&lt;tr class="rowColor"&gt;
&lt;td class="colFirst"><code>void</code></td>
&lt;td class="colLast"><span class="strong">FileContext.</span><code><strong><a href="/.../org/apache/hadoop/fs/FileContext.html#access(org.apache.hadoop.fs.Path,%20org.apache.hadoop.fs.permission.FsAction)">access</a></strong>(<a href="/.../org/apache/hadoop/fs/Path.html" title="class in org.apache.hadoop.fs">Path</a>&nbsp;path,
&lt;a href="/.../org/apache/hadoop/fs/permission/FsAction.html" title="enum in org.apache.hadoop.fs.permission">FsAction</a>&lt;/a>&nbsp;&amp;nbsp;mode)&lt;/code&gt;&lt;/div&gt;
&lt;/td&gt;
&lt;/tr&gt;

&lt;tr class="altColor"&gt;
&lt;td class="colFirst"><code>void</code></td>
&lt;td class="colLast"><span class="strong">AbstractFileSystem.</span><code><strong><a href="/.../org/apache/hadoop/fs/AbstractFileSystem.html#access(org.apache.hadoop.fs.Path,%20org.apache.hadoop.fs.permission.FsAction)">access</a></strong>(<a href="/.../org/apache/hadoop/fs/Path.html" title="class in org.apache.hadoop.fs">Path</a>&nbsp;path,
</td>
</tr>

&lt;tr class="rowColor"&gt;
&lt;td class="colFirst"><code>void</code></td>
&lt;td class="colLast"><span class="strong">FileSystem.</span><code><strong><a href="/.../org/apache/hadoop/fs/FileSystem.html#access(org.apache.hadoop.fs.Path,%20org.apache.hadoop.fs.permission.FsAction)">access</a></strong>(<a href="/.../org/apache/hadoop/fs/Path.html" title="class in org.apache.hadoop.fs">Path</a>&nbsp;path,
</td>
</tr>
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/adl/package-summary.html">org.apache.hadoop.fs.adl</a>`

<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>` 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"></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>void</code></td>
<td class="colLast"><span class="strong">AdlFileSystem.</span><code><strong><a href="../../../../../../org/apache/hadoop/fs/adl/AdlFileSystem.html#access(org.apache.hadoop.fs.Path,%20org.apache.hadoop.fs.permission.FsAction)">access</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/FsAction.html" title="enum in org.apache.hadoop.fs.permission">FsAction</a>&nbsp;mode)</code>

<div class="block">Checks if the user can access a path.</div></td>
</tr>
</tbody>
</table>

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/permission/package-summary.html">org.apache.hadoop.fs.permission</a>`

<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/permission/package-summary.html">org.apache.hadoop.fs.permission</a>` that return `<a href="../../../../../../org/apache/hadoop/fs/permission/FsAction.html" title="enum in org.apache.hadoop.fs.permission">FsAction</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/FsAction.html" title="enum in org.apache.hadoop.fs.permission">FsAction</a></code></td>
<td class="colLast"><span class="strong">FsAction.</span><code><strong><a href="../../../../../../org/apache/hadoop/fs/permission/FsAction.html#and(org.apache.hadoop.fs.permission.FsAction)" title="and in org.apache.hadoop.fs.permission">and</a></strong>(<a href="../../../../../../org/apache/hadoop/fs/permission/FsAction.html" title="enum in org.apache.hadoop.fs.permission">FsAction</a>&nbsp;other)</code>

<div class="block">ANDs two FsActions</div></td>
</tr>
</tbody>
</table>
AND operation. Get the effective permission for the AclEntry.

Get the FsAction enum for String representation of permissions.

Return group.
<tr class="rowColor">
<td class="colFirst"><code><a href="../../../../../../org/apache/hadoop/fs/permission/FsAction.html" title="enum in org.apache.hadoop.fs.permission">FsAction</a></code></td>
<td class="colLast"><span class="strong">FsPermission.</span><code><strong><a href="../../../../../../org/apache/hadoop/fs/permission/FsPermission.html#getOtherAction()">getOtherAction</a></strong>()</code>
<div class="block">Return other <a href="../../../../../../org/apache/hadoop/fs/permission/FsPermission.html" title="enum in org.apache.hadoop.fs.permission">FsAction</a></div>
</td>
</tr>
<tr class="altColor">
<td class="colFirst"><code><a href="../../../../../../org/apache/hadoop/fs/permission/FsAction.html" title="enum in org.apache.hadoop.fs.permission">FsAction</a></code></td>
<td class="colLast"><span class="strong">AclEntry.</span><code><strong><a href="../../../../../../org/apache/hadoop/fs/permission/AclEntry.html#getPermission()">getPermission</a></strong>()</code>
<div class="block">Returns the set of permissions in the ACL entry.</div>
</td>
</tr>
<tr class="rowColor">
<td class="colFirst"><code><a href="../../../../../../org/apache/hadoop/fs/permission/FsAction.html" title="enum in org.apache.hadoop.fs.permission">FsAction</a></code></td>
<td class="colLast"><span class="strong">FsPermission.</span><code><strong><a href="../../../../../../org/apache/hadoop/fs/permission/FsPermission.html#getUserAction()">getUserAction</a></strong>()</code>
<div class="block">Return user <a href="../../../../../../org/apache/hadoop/fs/permission/FsAction.html" title="enum in org.apache.hadoop.fs.permission">FsAction</a></div>
</td>
</tr>
<tr class="altColor">
<td class="colFirst"><code><a href="../../../../../../org/apache/hadoop/fs/permission/FsAction.html" title="enum in org.apache.hadoop.fs.permission">FsAction</a></code></td>
<td class="colLast"><span class="strong">FsAction.</span><code><strong><a href="../../../../../../org/apache/hadoop/fs/permission/FsAction.html#not()">not</a></strong>()</code>
<div class="block">NOT operation.</div>
</td>
</tr>
<tr class="rowColor">
<td class="colFirst"><code><a href="../../../../../../org/apache/hadoop/fs/permission/FsAction.html" title="enum in org.apache.hadoop.fs.permission">FsAction</a></code></td>
<td class="colLast"><span class="strong">FsAction.</span><code><strong><a href="../../../../../../org/apache/hadoop/fs/permission/FsAction.html#or(org.apache.hadoop.fs.permission.FsAction)">or</a>(org.apache.hadoop.fs.permission.FsAction)</strong>()</code>
<div class="block">OR operation.</div>
</td>
</tr>
<table>
<thead>
<tr>
<th>Modifier and Type</th>
<th>Method and Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>public static &lt;code&gt; FsAction.valueOf(String name)&lt;/code&gt;</td>
<td>Return the enum corresponding to the name.</td>
</tr>
<tr>
<td>static &lt;code&gt; FsAction[] values()&lt;/code&gt;</td>
<td>Return the complete array of all enum values.</td>
</tr>
<tr>
<td>public &lt;code&gt; FsAction and(FsAction that)&lt;/code&gt;</td>
<td>Perform the AND operation.</td>
</tr>
<tr>
<td>boolean implies(FsAction that)</td>
<td>Return true if this action implies that action.</td>
</tr>
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</tr>
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<td>boolean implies(FsAction that)</td>
<td>Return true if this action implies that action.</td>
</tr>
</tbody>
</table>
<div class="block">OR operation.</div>

## Constructors in org.apache.hadoop.fs.permission with parameters of type <code>FsAction</code>

<table>
<thead>
<tr>
<th>Constructor</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;code&gt;FsPermission(FsAction u, FsAction g, FsAction o)&lt;/code&gt;</td>
<td>Construct by the given &lt;code&gt;FsAction&lt;/code&gt;.</td>
</tr>
<tr>
<td>&lt;code&gt;FsPermission(FsAction u, FsAction g, FsAction o, boolean sb)&lt;/code&gt;</td>
<td></td>
</tr>
</tbody>
</table>

<!-- End of table -->
Methods in `org.apache.hadoop.fs.permission` with parameters of type `FsAction`:

<table>
<thead>
<tr>
<th>Modifier and Type</th>
<th>Method and Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>void</code></td>
<td><code>ViewFs.access(Path, FsAction)</code></td>
</tr>
<tr>
<td><code>void</code></td>
<td><code>ViewFileSystem.access(Path, FsAction)</code></td>
</tr>
</tbody>
</table>
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xml-commons/java/external/README.dom.txt $Id: README.dom.txt 477038 2006-11-20 04:40:36Z mrglavas $

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xml-commons/java/external/src/org/w3c
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(Note: SAC (The Simple API for CSS) has been published under an older version of the W3C license. The original license file is LICENSE.sac.html.)

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The actual DOM Java Language Binding classes in xml-commons came from:
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:
http://www.w3.org/TR/SVG11/java.html

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xml-commons/java/external/xdocs/sax
and all subdirectories
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'
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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;

Conflicts:
.../namenode/DefaultAuthorizationProvider.java | 4 +++-
.../org/apache/hadoop/hdfs/TestDFSPermission.java | 18 +++++++++++++++++--------
.../server/namenode/TestFSPermissionChecker.java | 8 +++++++-
3 files changed, 25 insertions(+), 5 deletions(-)
index b9cd26b..4f8b543 100644
@@ -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 + "+ 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()));
    }

Path badPath = new Path("/bad/bad");

Open Source Used In Cisco Kinetic for Cities 4.1.0.03072
@@ -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
@@ -33,6 +33,7 @@
import static org.apache.hadoop.fs.permission.FsAction.WRITE_EXECUTE;
import static org.apache.hadoop.hdfs.server.namenode.AclTestHelpers.aclEntry;
import static org.junit.Assert.fail;
+import static org.junit.Assert.assertTrue;
import static org.mockito.Matchers.any;
import static org.mockito.Mockito.doAnswer;
import static org.mockito.Mockito.mock;
@@ -41,6 +42,7 @@
import java.util.Arrays;
import org.apache.hadoop.conf.Configuration;
+import org.apache.hadoop.fs.Path;
import org.apache.hadoop.fs.permission.AclEntry;
import org.apache.hadoop.fs.permission.FsAction;
import org.apache.hadoop.fs.permission.FsPermission;
@@ -412,7 +414,11 @@ private void assertPermissionDenied(UserGroupInformation user, String path,
        fail("expected AccessControlException for user + " + user + ", path = " +
            path + ", access = " + access);
    } catch (AccessControlException e) {
-        // expected
+        assertTrue("Permission denied messages must carry the username",
+                e.getMessage().contains(user.getUserName().toString()));
+        assertTrue("Permission denied messages must carry the path parent",
+                e.getMessage().contains(
+                    p3.getParent().toUri().getPath()));
    }
+ e.getMessage().contains(
+ new Path(path).getParent().toUri().getPath()));
+
+}
+
+
--
1.7.9.5
/*
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 *
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 * OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION
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 */
3

SourceFile
AclEntry.javaEnclosingMethod*org/apache/hadoop/fs/permission/AclEntry$1InnerClassesjava/lang/Object(org/apache/hadoop/fs/permission/AclEntry
3a

LMNownerLjava/lang/String;group	stickyBitZentriesLjava/util/List;
Signature<Ljava/util/List<Lorg/apache/hadoop/fs/permission/AclEntry;>;permission,L.org/apache/hadoop/fs/permission/FsPermission;<init>()VCodeLineNumberTableLocalVariableTableth
isBuilderInnerClasses3Lorg/apache/hadoop/fs/permission/AclStatus$Builder;G(Ljava/lang/String;)Lorg/apache/hadoop/fs/permission/AclEntry
addEntry_(Lorg/apache/hadoop/fs/permission/AclEntry;)Lorg/apache/hadoop/fs/permission/AclStatus$Builder;e*Lorg/apache/hadoop/fs/permission/AclEntry;
addEntriesI(Ljava/lang/Iterable;)Lorg/apache/hadoop/fs/permission/AclStatus$Builder;addEntry_(Lorg/apache/hadoop/fs/permission/AclEntry;);Lorg/apache/hadoop/fs/permission/AclStatus$Builder;e*Lorg/apache/hadoop/fs/permission/AclEntry;
addEntriesI(Ljava/lang/Iterable;)Lorg/apache/hadoop/fs/permission/AclStatus$Builder;ISL.java/util/Iterator;Ljava/lang/Iterable;LocalVariableTypeTable@Ljava/lang/Iterable<Lorg/apache/hadoop/fs/permission/AclEntry;>;StackMapTableOu(Ljava/lang/Iterable<Lorg/apache/hadoop/fs/permission/AclEntry;>);Lorg/apache/hadoop/fs/per
From 666051e4577aa74d0ecd8a4d382ef0705f3b2035 Mon Sep 17 00:00:00 2001
From: Andrew Wang <wang@apache.org>
Date: Thu, 21 Apr 2016 13:50:02 -0700
Subject: [PATCH 1496/2345] HADOOP-13042. Restore lost leveldbjni LICENSE and NOTICE changes.

(cherry picked from commit fea50c5440d83225958c5e346299334559fc37a4)
(cherry picked from commit c28e4b0651cfd5ed142980dc10f4c2a7388a39a0)
(cherry picked from commit bae229ae27605d039d692fdd1edc5b4d946ddeb8)

Conflicts:
LICENSE.txt

(cherry picked from commit b8feb774a195f185a41824de673fa17aad8e5f0)
(cherry picked from commit ccd4b83972716d162a691667026d95820594b933)

Change-Id: 197d8e8c4402e4c7bf8e84a9b30d5bd8d6cd753a2
---
LICENSE.txt | 94 +++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
NOTICE.txt | 15 +++++++
2 files changed, 109 insertions(+)

diff --git a/LICENSE.txt b/LICENSE.txt
index ee9dfa8..729dbc6 100644
--- a/LICENSE.txt
+++ b/LICENSE.txt
@@ -320,3 +320,97 @@ THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT

+For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h
+---------------------------------------------------------------------
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45ACCESS/Lorg/apache/hadoop/fs/permission/AclEntryScope;DEFAULT$VALUES0[Lorg/apache/hadoop/fs/permission/AclEntryScope;values2()][Lorg/apache/hadoop/fs/permission/AclEntryScope;CodeLineNumberTablevalue0fC(Ljava/lang/String;)Lorg/apache/hadoop/fs/permission/AclEntryScope;LocalVariableTablebasenameLjava/lang/String;
<init>(Ljava/lang/String;I)V
this
Signature()V
<cinit>ALjava/lang/Enum<Lorg/apache/hadoop/fs/permission/AclEntryScope;;">;
SourceFileAclEntryScope.javaRuntimeVisibleAnnotations7PublicInnerClasses;Lorg/apache/hadoop/classification/InterfaceAudience$Public;9Evolving;Lorg/apache/hadoop/classification/InterfaceStability$Evolving;:::-
org/apache/hadoop/fs/permission/AclEntryScope<
java/lang/Enum=9org/apache/hadoop/classification/InterfaceAudience$Public>;org/apache/hadoop/classification/InterfaceStability$Evolving;clone()Ljava/lang/Object;5(Ljava/lang/Class;Ljava/lang/String;)Ljava/lang/Enum;2org/apache/hadoop/classification/InterfaceAudience3org/apache/hadoop/classification/InterfaceStability@1@
@"5*1*+ N.YY
YSYS!
)!"#$
(+%6&&)&8*&
3OP
QRS
UVW
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^)
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fVgYhYi
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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;aclhasAccessAclZ
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;L(java/util/List;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>()V
this
Lorg/apache/hadoop/fs/permission/A
From c0829f449337b78ac0b995e216f7324843e74dd2 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.

Conflicts:

Change-Id: Ifbc3198116fb76f05199f46ae23b35dd691e8bb

---
.../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

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() {

index 49d21af..2130646 100644
--- a/hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/namenode/web/resources/NamenodeWebHdfsMethods.java
+++ b/hadoop-hdfs-project/hadoop-hdfs/src/main/java/org/apache/hadoop/hdfs/server/namenode/web/resources/NamenodeWebHdfsMethods.java
@@ -483,14 +483,16 @@ private Response put(
          PermissionParam.getDefaultSymLinkFsPermission(), createParent.getValue());
 return Response.ok().type(MediaType.APPLICATION_OCTET_STREAM).build();
}

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case RENAME:
    @ @ -523,7 +525,7 @ @ private Response put(
        }
    case SETPERMISSION:
        }
    -      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_FILE_PERMISSION = 0644;
    + private static final short DEFAULT_SYMLINK_PERMISSION = 0777;
    +
    +    /** @return the default FsPermission for symlink. */
    +    public static FsPermission getDefaultSymLinkFsPermission() {
    +        return new FsPermission(DEFAULT_SYMLINK_PERMISSION);
    +    }
    
    +    /** @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. */
    -    public static FsPermission getDefaultFsPermission() {
    -        return new FsPermission(DEFAULT_PERMISSION);
    
    +    private static final short DEFAULT_DIR_PERMISSION = 0755;
    +
    +    /** @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);
    +    }
    +
    +    /**
* Constructor.
  * @param value the parameter value.
@@ -57,8 +71,18 @@
    }
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.
 */
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();
    }
  }

  @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 StringBuilder uri = new StringBuilder(cluster.getHttpUri(0));
    uri.append("/webhdfs/v1").append(path).append("?").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_OK,
            "rwxr-xr-x",
            "/path",
            "op=MKDIRS&permission=777");
}
+  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() {
+    Assert.assertEquals(new FsPermission((short)0755), p.getFsPermission());
+    Assert.assertEquals(new FsPermission((short)0644), p.getFileFsPermission());
-    Assert.assertEquals(new FsPermission((short)0);  
-    Assert.assertEquals(new FsPermission((short)0);  
-    Assert.assertEquals(new FsPermission((short)0);  
-    Assert.assertEquals(new FsPermission((short)0);  
+    Assert.assertEquals(new FsPermission((short)0644), p.getFileFsPermission());
+  }  
+  
+  }  
+  
+  @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

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

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

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

    /**
     * Begin parsing permission stored in modeStr
     *
     * @param modeStr Permission mode, either octal or symbolic
     * @param symbolic Use-case specific symbolic pattern to match against
     * @throws IllegalArgumentException if unable to parse modeStr
     */
    public PermissionParser(String modeStr, Pattern symbolic, Pattern octal)
        throws IllegalArgumentException {
        Matcher matcher = null;
        if ((matcher = symbolic.matcher(modeStr)).find()) {
            applyNormalPattern(modeStr, matcher);
        } else if ((matcher = octal.matcher(modeStr)).matches()) {
            applyOctalPattern(modeStr, matcher);
        } else {
            throw new IllegalArgumentException(modeStr);
        }
    }

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

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

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

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

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

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

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

short mode = 0;

for (char c : matcher.group(3).toCharArray()) {
    switch (c) {
    case 'r':
        mode |= 4;
        break;
    case 'w':
        mode |= 2;

break;
case 'x':
    mode |= 1;
    break;
case 'X':
    mode |= 8;
    break;
case 't':
    stickyBit = true;
    break;
default:
    throw new RuntimeException("Unexpected");
}
}

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

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

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

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

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

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

    // Check if sticky bit is specified
    String sb = matcher.group(1);
    if (!sb.isEmpty()) {
        stickyMode = Short.valueOf(sb.substring(0, 1));
        stickyBitType = '=';
    }
}
String str = matcher.group(2);
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;
}

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)
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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+ * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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+ * limitations under the License.
+ */
+
package org.apache.hadoop.hdfs.server.datanode;

import static org.apache.hadoop.hdfs.DFSConfigKeys.DFS_DATANODE_BALANCE_MAX_NUM_CONCURRENT_MOVES _KEY;

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3
6rt
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assertNotSame(Ljava/lang/Object;Ljava/lang/Object;)
VassertEquals(Ljava/lang/Object;Ljava/lang/Object;)
ZassertFalse(Z)
has
hCode()
I(JJ)
VACCE
SgetScope1()
Lorg/apache/hadoop/fs/permission/AclEntryScope;toString()
Ljava/lang/String;!
D6
EF
GF
HF
IF
JF
KF
LF
MF
NF
OF
PF
QQ
RF
ST
UT
VT
WT
XYZ/*[\]_^_ZYK*
*
Y
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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 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();
}
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);
        } catch(NoSuchElementException e) {
            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();
    }
}
target="_top">Frames</a></li>
<li><a href="AclEntryType.html" target="_top">No Frames</a></li></ul>
</div>
</div>
<!--
allClassesLink = document.getElementById("allclasses_navbar_top");
if(window==top) {
    allClassesLink.style.display = "block";
}
else {
    allClassesLink.style.display = "none";
}
//-->
</div>
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</script>
</div>
</div>
<!-- ========= END OF TOP NAVBAR ========= -->
<div class="header">
<h2 title="Uses of Class org.apache.hadoop.fs.permission.AclEntryType" class="title">Uses of Class<br>org.apache.hadoop.fs.permission.AclEntryType</h2>
<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/AclEntryType.html" title="enum in org.apache.hadoop.fs.permission">AclEntryType</a></span><span class="tabEnd"> </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.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>

<!--
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</div></div>

<a name="skip-navbar_top"></a>
<!-- --></div>
<!-- ========= END OF TOP NAVBAR ========= -->

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Uses of <a href="/org/apache/hadoop/fs/permission/AclEntryType.html" title="enum in org.apache.hadoop.fs.permission">AclEntryType</a> in org.apache.hadoop.fs.permission

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

Retrieves the ACL entry type.
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U
VWXunmasked.L.org/apache/hadoop/fs/permission/FsPermission;$assertionsDisabledZ
applyUMask(Lorg/apache/hadoop/fs/permission/FsPermission;Lorg/apache/hadoop/fs/permission/FsPermission;);Lorg/apache/hadoop/fs/permission/FsPermission;CodeLineNumberTableLocalVariableTablemodeumask
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- javaee_5.xsd
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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;

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related information is available at

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JDT Core Batch Compiler component, which is open source software.
The original software and related information is available at
http://www.eclipse.org/jdt/core/.

The original XML Schemas for Java EE Deployment Descriptors:
- javae_5.xsd
- javae_web_services_1_2.xsd
- javae_web_services_client_1_2.xsd
may be obtained from http://java.sun.com/xml/ns/javae/

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ON_WRITEPERMISSION_READ_ACPPERMISSION_WRITE_ACPpermissionStringLjava/lang/String;<init>(Lj
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Open Source Used In Cisco Kinetic for Cities 4.1.0.03153
## Packages that use AclEntryScope

<table>
<thead>
<tr>
<th>Package</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>org.apache.hadoop.fs.permission</td>
<td>This package provides support for HDFS permission and ACL.</td>
</tr>
</tbody>
</table>

### Uses of AclEntryScope in org.apache.hadoop.fs.permission

<table>
<thead>
<tr>
<th>Modifier and Type</th>
<th>Method and Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AclEntry.getScope()</td>
</tr>
<tr>
<td></td>
<td>AclEntryScope.valueOf(java.lang.String) valueOf()</td>
</tr>
</tbody>
</table>

- Methods in org.apache.hadoop.fs.permission that return AclEntryScope
- Packages that use AclEntryScope
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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/
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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/
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:
http://www.w3.org/TR/1998/REC-DOM-Level-1-19981001/level-one.html.html

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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MapReduceUnstable>Lorg/apache/hadoop/classification/InterfaceStability$Unstable;org/apache/hadoop/fs/permission/PermissionStatus$1;
<clinit>
java/lang/Objectorg/apache/hadoop/io/Writablejava/io/IOExceptionAorg/apache/hadoop/classification/InterfaceAudience$LimitedPrivate;valueHDFS

An exception class for access control related issues.

@deprecated Use {@link org.apache.hadoop.security.AccessControlException} instead.

*/

@Deprecated
@InterfaceAudience.Public
@InterfaceStability.Stable
public class AccessControlException extends IOException {
    // Required by {@link java.io.Serializable}.
    private static final long serialVersionUID = 1L;

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

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

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

<!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.AclStatus (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>
allClassesLink.style.display = "none";
}
//-->
</script>
</div>
<a name="skip-navbar_top">
<!--   -->
</a></div>
<!-- ========= END OF TOP NAVBAR ========= -->
<div class="header">
<h2 title="Uses of Class org.apache.hadoop.fs.permission.AclStatus" class="title">Uses of Class<br>org.apache.hadoop.fs.permission.AclStatus</h2>
<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/AclStatus.html" title="class in org.apache.hadoop.fs.permission">AclStatus</a></span><span class="tabEnd"></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.viewfs">org.apache.hadoop.fs.viewfs</a></td>
<td class="colLast"> </td>
</tr>
</tbody>
</table>
</li>
<li class="blockList">
<ul class="blockList">
<li class="blockList"><a name="org.apache.hadoop.fs">
<!--   -->
</a></li>
</ul>
</li>
</ul>
</li></ul>
</div>
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/package-summary.html">org.apache.hadoop.fs</a>`

<table>
<thead>
<tr>
<th>Modifier and Type</th>
<th>Method and Description</th>
</tr>
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<tbody>
<tr>
<td><code>FilterFileSystem</code></td>
<td><code>getAclStatus(Path path)</code> Gets the ACLs of files and directories.</td>
</tr>
<tr>
<td><code>FileContext</code></td>
<td><code>getAclStatus(Path path)</code> Gets the ACLs of files and directories.</td>
</tr>
<tr>
<td><code>AbstractFileSystem</code></td>
<td><code>getAclStatus(Path path)</code> Gets the ACLs of files and directories.</td>
</tr>
<tr>
<td><code>FileSystem</code></td>
<td><code>getAclStatus(Path path)</code> Gets the ACLs of files and directories.</td>
</tr>
</tbody>
</table>
<div class="block">Get the ACL of a file or directory.</div>
<table>
<thead>
<tr>
<th>Modifier and Type</th>
<th>Method and Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>AclStatus</code></td>
<td><code>ViewFs.getAclStatus(Path)</code></td>
</tr>
<tr>
<td><code>AclStatus</code></td>
<td><code>ViewFileSystem.getAclStatus(Path)</code></td>
</tr>
</tbody>
</table>
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import org.apache.hadoop.io.*;
import java.io.DataInput;
import java.io.DataOutput;
import java.io.IOException;

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

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

    private String username;
    private String groupname;
    private FsPermission permission;
    private PermissionStatus() {
    }

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

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

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

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

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

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

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

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

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

<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<!-- NewPage -->
<html lang="en">
<head>
<!-- Generator: 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.AclEntry (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.AclEntry (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/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>
Package

Description

AclEntry

org.apache.hadoop.fs.permission

Uses of Class org.apache.hadoop.fs.permission.AclEntry

<table>
<thead>
<tr>
<th>Package</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>org.apache.hadoop.fs</td>
<td>Uses of Class org.apache.hadoop.fs.permission.AclEntry</td>
</tr>
</tbody>
</table>

Packages that use AclEntry

<table>
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</tr>
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<td>org.apache.hadoop.fs.permission</td>
<td>Uses of Class org.apache.hadoop.fs.permission.AclEntry</td>
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AclEntry

org.apache.hadoop.fs.permission
<table>
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<th>Package</th>
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</tr>
</thead>
<tbody>
<tr>
<td>org.apache.hadoop.fs.adl</td>
<td>Supporting classes for metrics instrumentation.</td>
</tr>
<tr>
<td>org.apache.hadoop.fs.permission</td>
<td>This package provides support for HDFS permission and ACL.</td>
</tr>
<tr>
<td>org.apache.hadoop.fs.viewfs</td>
<td></td>
</tr>
</tbody>
</table>

### Uses of `AclEntry` in `org.apache.hadoop.fs`

<table>
<thead>
<tr>
<th>Method and Description</th>
<th>Parameters with Type Arguments</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>FilterFileSystem.modifyAclEntries(Path, List)</code></td>
<td><code>Path</code>, <code>List</code></td>
</tr>
</tbody>
</table>

This abstract file system API provides support for HDFS permission and ACL.
<table>
<thead>
<tr>
<th>Class</th>
<th>Method</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ChecksumFileSystem</td>
<td>modifyAclEntries(Path, List&lt;AclEntry&gt;)</td>
<td>Modifies ACL entries of files and directories.</td>
</tr>
<tr>
<td>FileContext</td>
<td>modifyAclEntries(Path, List&lt;AclEntry&gt;)</td>
<td>Modifies ACL entries of files and directories.</td>
</tr>
<tr>
<td>AbstractFileSystem</td>
<td>modifyAclEntries(Path, List&lt;AclEntry&gt;)</td>
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</tr>
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<td>FileSystem</td>
<td>modifyAclEntries(Path, List&lt;AclEntry&gt;)</td>
<td>Modifies ACL entries of files and directories.</td>
</tr>
</tbody>
</table>
Modifies ACL entries of files and directories.

- `FilterFileSystem.removeAclEntries(Path path, java.util.List<AclEntry> aclSpec)`
- `ChecksumFileSystem.removeAclEntries(Path src, java.util.List<AclEntry> aclSpec)`
- `FileContext.removeAclEntries(Path path, java.util.List<AclEntry> aclSpec)`
- `AbstractFileSystem.removeAclEntries(Path path, java.util.List<AclEntry> aclSpec)`

Removes ACL entries from files and directories.
<table>
<thead>
<tr>
<th>Class/Method</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>FileSystem.removeAclEntries</code></td>
<td>Removes ACL entries from files and directories.</td>
</tr>
<tr>
<td><code>FilterFileSystem.setAcl</code></td>
<td>Sets ACL entries.</td>
</tr>
<tr>
<td><code>ChecksumFileSystem.setAcl</code></td>
<td>Sets ACL entries.</td>
</tr>
<tr>
<td><code>FileContext.setAcl</code></td>
<td>Sets ACL entries.</td>
</tr>
</tbody>
</table>

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

Removes ACL entries from files and directories.

Fully replaces ACL of files and directories, discarding all existing entries.
Methods in org.apache.hadoop.fs.permission that return a
href="../../../org/apache/hadoop/fs/permission/AclEntry.html" title="class in
org.apache.hadoop.fs.permission" AclEntry</a></span></td><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>static <a href="../../../org/apache/hadoop/fs/permission/AclEntry.html" title="class in org.apache.hadoop.fs.permission">AclEntry</a></code></td><td class="colLast"><span class="strong">AclEntry.</span><code><strong><a href="../../../org/apache/hadoop/fs/permission/AclEntry.html#parseAclEntry(java.lang.String,%20boolean)" title="class in org.apache.hadoop.fs.permission">parseAclEntry</a></strong>(<a href="http://download.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true" title="class or interface in java.lang">String</a>&nbsp;aclStr,<br>boolean includePermission)</code><div class="block">Parses a string representation of an ACL into a AclEntry object.</div></td></tr></tbody></table><div class="block">Parses a string representation of an ACL into a AclEntry object.</div></div><a></a><div class="block">Parses a string representation of an ACL into a AclEntry object.</div></div><a></a><div class="block">Parses a string representation of an ACL into a AclEntry object.</div></div><table border="0" cellpadding="3" cellspacing="0" summary="Use table, listing methods, and an explanation" class="list"<a href="../../../org/apache/hadoop/fs/permission/AclEntry.html" title="class in org.apache.hadoop.fs.permission">AclEntry</a>>
Class or interface in java.util</td></a></td></tr><tbody><tr class="altColor"><td class="colFirst"><code><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>&lt;&lt;a href="../../../org/apache/hadoop/fs/permission/AclEntry.html" title="class in org.apache.hadoop.fs.permission">AclEntry</a>&gt;&gt;&lt;/code&gt;&lt;/td&gt;&lt;td class="colLast"><span class="strong">AclStatus.</span><code><strong><a href="../../../org/apache/hadoop/fs/permission/AclStatus.html#getEntries()" title="class in org.apache.hadoop.fs.permission">getEntries</a>()</strong></code><div class="block">Returns the list of all ACL entries, ordered by their natural ordering.</div></td></tr><tr class="rowColor"><td class="colFirst"><code>static <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>&lt;&lt;a href="../../../org/apache/hadoop/fs/permission/AclEntry.html" title="class in org.apache.hadoop.fs.permission">AclEntry</a>&gt;&gt;&lt;/code&gt;&lt;/td&gt;&lt;td class="colLast"><span class="strong">AclEntry.</span><code><strong><a href="../../../org/apache/hadoop/fs/permission/AclEntry.html#parseAclSpec(java.lang.String,%20boolean)" title="class in org.apache.hadoop.fs.permission">parseAclSpec</a></strong>(<a href="http://download.oracle.com/javase/7/docs/api/java/lang/String.html?is-external=true" title="class or interface in java.lang">String</a>&nbsp;aclStr,<br>boolean includePermission)</code><div class="block">Parses a string representation of an ACL into an AclEntry object.</div></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>
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</tr>
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<tr>
<td></td>
<td><strong>AclStatus.getEffectivePermission(AclEntry)</strong></td>
</tr>
<tr>
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<td>Get the effective permission for the AclEntry</td>
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<tbody>
<tr>
<td></td>
<td><strong>AclStatus.getEffectivePermission(AclEntry,FsPermission)</strong></td>
</tr>
<tr>
<td></td>
<td>Get the effective permission for the AclEntry.</td>
</tr>
</tbody>
</table>

Get the effective permission for the AclEntry.
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<tr>
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<th>Method and Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>static String AclEntry aclSpecToString(List aclSpec)</td>
<td>Convert a List of AclEntries into a string - the reverse of parseAclSpec.</td>
</tr>
</tbody>
</table>

```java
void modifyAclEntries(Path path, List<AclEntry> aclSpec)
```

Uses of AclEntry in org.apache.hadoop.fs.viewfs
Open Source Used In Cisco Kinetic for Cities 4.1.0.03189

- `ViewFileSystem.modifyAclEntries(Path, List)`
- `ViewFileSystem.removeAclEntries(Path, List)`
- `ViewFs.setAcl(Path, List)`
- `ViewFs.removeAclEntries(Path, List)`
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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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 * http://www.apache.org/licenses/LICENSE-2.0
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();
ENTRY6 = new AclEntry.Builder()
    .setType(AclEntryType.GROUP)
    .setName("group3")
    .setPermission(FsAction.READ_WRITE)
    .setScope(AclEntryScope.DEFAULT)
    .build();
ENTRY7 = new AclEntry.Builder()
    .setType(AclEntryType.OTHER)
    .setPermission(FsAction.NONE)
    .build();
ENTRY8 = new AclEntry.Builder()
    .setType(AclEntryType.USER)
    .setName("user3")
    .setPermission(FsAction.ALL)
    .setScope(AclEntryScope.DEFAULT)
    .build();
ENTRY9 = new AclEntry.Builder()
    .setType(AclEntryType.MASK)
    .setPermission(FsAction.READ)
    .build();
ENTRY10 = new AclEntry.Builder()
    .setType(AclEntryType.MASK)
    .setPermission(FsAction.READ_EXECUTE)
    .setScope(AclEntryScope.DEFAULT)
    .build();
ENTRY11 = new AclEntry.Builder()
    .setType(AclEntryType.GROUP)
    .setPermission(FsAction.READ)
    .build();
ENTRY12 = new AclEntry.Builder()
    .setType(AclEntryType.GROUP)
    .setPermission(FsAction.READ)
    .setScope(AclEntryScope.DEFAULT)
    .build();
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()
    .owner("owner2")
    .group("group2")
    .stickyBit(true)
    .build();

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());
}

@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() {
    assertNotSame(STATUS1, STATUS2);
    assertNotSame(STATUS1, STATUS3);
    assertNotSame(STATUS2, STATUS3);
    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:rw-, group:group2:rw-, default:other::---], stickyBit: false}",
    STATUS2.toString());
assertEquals(
    "owner: owner2, group: group2, acl: {entries: [], stickyBit: true}",
    STATUS3.toString());
}
}
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
    "http://www.w3.org/TR/html4/loose.dtd">
<!--[if NewPage --]>
<html lang="en">
<head>
<!--[if NewPage -->
<!-- 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.FsCreateModes (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">
<script type="text/javascript">><!--
if (location.href.indexOf('is-external=true') == -1) {
p parent.document.title="Uses of Class org.apache.hadoop.fs.permission.FsCreateModes (Apache Hadoop Main 2.6.0-cdh5.11.0 API)";
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</script>
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</ul>
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<div class="skipNav"><span class="skipNavLeft">|</span><span class="skipNavRight">|</span></div>

<!-- == START OF REPOSITORY NAVBAR == -->
</div>
<noscript>
</noscript>
</body>
</html>
This package provides support for HDFS permission and ACL.

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

```java
def create(FsPermission masked, FsPermission unmasked):
    Create from masked and unmasked modes.
```

Create from masked and unmasked modes.
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<table>
<thead>
<tr>
<th>SVN Login(s)</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td><a href="mailto:amit.bhayani@jboss.com">amit.bhayani@jboss.com</a></td>
<td>Amit Bhayani</td>
</tr>
<tr>
<td>ataylor</td>
<td>Andy Taylor</td>
</tr>
<tr>
<td>beve</td>
<td>Daniel Bevenius</td>
</tr>
<tr>
<td>fredbregier</td>
<td>Frederic Bregier</td>
</tr>
<tr>
<td>trustin</td>
<td>Trustin Heuiseung Lee</td>
</tr>
</tbody>
</table>

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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;

import org.apache.hadoop.hadoop.hdfs.HadoopIllegalArgumentException;
import org.apache.hadoop.hadoop.hdfs.HadoopIllegalArgumentException;
import org.apache.hadoop.hdfs.HadoopIllegalArgumentException;
import org.apache.hadoop.hdfs.HadoopIllegalArgumentException;
import org.apache.hadoop.util.StringUtils;

import com.google.common.base.Objects;

/**
 * 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(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.
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
 */
public static List<AclEntry> parseAclSpec(String aclSpec,
                                          boolean includePermission) {
    List<AclEntry> aclEntries = new ArrayList<AclEntry>();
    Collection<String> aclStrings = StringUtils.getStringCollection(aclSpec, 
                                                                      ",");
    for (String aclStr : aclStrings) {
        AclEntry aclEntry = parseAclEntry(aclStr, includePermission);
        aclEntries.add(aclEntry);
    }
    return aclEntries;
}
/**
 * Parses a string representation of an ACL into a AclEntry object.<br>
 *
 * @param aclStr
 *    String representation of an ACL. Example: "user:foo:rw-"
 * @param includePermission
 *    for setAcl operations this will be true. i.e. Acl should include
 *    permissions. But for removeAcl operation it will be false. i.e. Acl should not
 *    contain permissions. Example: "user:foo,group:bar,mask::"
 * @return Returns an { @link AclEntry} object
 */
public static AclEntry parseAclEntry(String aclStr, boolean includePermission) {
    AclEntry.Builder builder = new AclEntry.Builder();
    // Here "::" represent one empty string.
    // StringUtils.getStringCollection() will ignore this.
    String[] split = aclStr.split("; ");

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

    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];
        return builder.build();
    }
    return null;
}
*/
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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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:
```
http://www.w3.org/TR/SVG11/java.html
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http://openjdk.java.net/legal/gplv2+ce.html

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OW2
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org.ow2.asm:asm-commons
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Apache

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

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

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

org.eclipse.jetty.toolchain:jetty-schemas

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

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For:
XML Commons External Components XML APIs 1.3.04

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ecj-4.3.1.jar
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JLine 0.9.94
leveldbjni-all 1.8
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 */
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import java.util.regex.Pattern;

import org.apache.hadoop.classification.InterfaceAudience;
import org.apache.hadoop.classification.InterfaceStability;
/**
* Parse umask value provided as a string, either in octal or symbolic
* format and return it as a short value. Umask values are slightly
* different from standard modes as they cannot specify sticky bit
* or X.
*
*/
@InterfaceAudience.Private
@InterfaceStability.Unstable
class UmaskParser extends PermissionParser {
private static Pattern chmodOctalPattern =
Pattern.compile("^\\s*[+]?(0*)([0-7]{3})\\s*$"); // no leading 1 for sticky bit
private static Pattern umaskSymbolicPattern = /* not allow X or t */
Pattern.compile("\\G\\s*([ugoa]*)([+=-]+)([rwx]*)([,\\s]*)\\s*");
final short umaskMode;
public UmaskParser(String modeStr) throws IllegalArgumentException {
super(modeStr, umaskSymbolicPattern, chmodOctalPattern);
umaskMode = (short)combineModes(0, false);
}
/**
* To be used for file/directory creation only. Symbolic umask is applied
* relative to file mode creation mask; the permission op characters '+'
* results in clearing the corresponding bit in the mask, '-' results in bits
* for indicated permission to be set in the mask.
*
* For octal umask, the specified bits are set in the file mode creation mask.
*
* @return umask
*/
public short getUMask() {
if (symbolic) {
// Return the complement of octal equivalent of umask that was computed
return (short) (~umaskMode & 0777);
}
return umaskMode;
}
}
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Last revised by Reagle $Date: 2005-06-03 18:49:13 -0400 (Fri, 03 Jun 2005) $

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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.

<pre>
@InterfaceAudience.LimitedPrivate("
HDFS", "MapReduce")
@InterfaceStability.Unstable
public final class AclUtil {

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

    acl.add(new AclEntry.Builder()
            .setScope(AclEntryScope.ACCESS)
            .setType(AclEntryType.USER)
            .setPermission(perm.getUserAction())
            .build());

    boolean hasAccessAcl = false;
    Iterator&lt;AclEntry&gt; entryIter = entries.iterator();
    AclEntry curEntry = null;
    while (entryIter.hasNext()) {
        curEntry = entryIter.next();
        if (curEntry.getScope() == AclEntryScope.DEFAULT) {
            break;
        }
        hasAccessAcl = true;
        acl.add(curEntry);
    }

    acl.add(new AclEntry.Builder()
            .setScope(AclEntryScope.ACCESS)
            .setType(hasAccessAcl ? AclEntryType.MASK : AclEntryType.GROUP)
            .setPermission(perm.getGroupAction())
            .build());

    acl.add(new AclEntry.Builder()
            .setScope(AclEntryScope.ACCESS)
            .setType(AclEntryType.OWNER)
            .setPermission(perm.getOwnerAction())
            .build());

    acl.add(new AclEntry.Builder()
            .setScope(AclEntryScope.ACCESS)
            .setType(AclEntryType.OTHER)
            .setPermission(perm.getOtherAction())
            .build());
    return acl;
}
</pre>
.setType(AclEntryType.OTHER)
.setPermission(perm.getOtherAction())
.build());

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

return acl;

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

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

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

3/$

% &

(seriousVersionUIDJ
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$Public,Stable<Lorg/apache/hadoop/classification/InterfaceAudience$Public,Stable;permission
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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 5db371f52f5c6e894a7e6a5d523084f4b316a7ab)
(cherry picked from commit 46ef5aa8e8ec8f4e4929f2558c5af90a5c427bcd1)

Conflicts:

hadoop-mapreduce-project/CHANGES.txt

Change-Id: 15c026966b7187ede212b43a64a159a87136fff49
---
./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
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;

@VisibleForTesting
long memory = DEFAULT_MEMORY;
private boolean verbose = false;
+ @VisibleForTesting
+ boolean force = false;

@VisibleForTesting
Set<AppInfo> eligibleApplications;

@VisibleForTesting
public static void main(String[] args) {
  @Override
  public int run(String[] args) throws Exception {
    int exitCode = 1;
    @VisibleForTesting
    handleOpts(args);

    FileSystem fs = null;
    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));
          finally {
            if (fs != null) {
              fs.close();
            }
          }
        }
      }
    }
  }
}
- 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;
- }
+ } finally {
+    if (fs != null) {
+        // Cleanup working directory
+        if (fs.exists(workingDir)) {
+            fs.delete(workingDir, true);
+        }
+        fs.close();
+    }
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);
    }

    @VisibleForTesting
    boolean prepareWorkingDir(FileSystem fs, Path workingDir) throws IOException {
        if (fs.exists(workingDir)) {
            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 @@ public void testStatuses() throws Exception {
+ 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));
+     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
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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);
}
diff --git a/LICENSE.txt b/LICENSE.txt
index 5bbc8ad..6d334e3 100644
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+ * http://commons.apache.org/logging/

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- * 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.

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- * ResolverUtil.java
  * Copyright 2005-2006 Tim Fennell
  * Dumbster SMTP test server
  * Copyright 2004 Jason Paul Kitchen
  * TypeUtil.java
  * Copyright 2002-2012 Ramnivas Laddad, Juergen Hoeller, Chris Beams

diff --git a/hadoop-build-tools/pom.xml b/hadoop-build-tools/pom.xml
diff --git a/hadoop-build-tools/pom.xml b/hadoop-build-tools/pom.xml
new file mode 100644
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE Document>
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limitations under the License. See accompanying LICENSE file. -->
<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>
            <plugin>
                <groupId>org.apache.maven.plugins</groupId>
                <artifactId>maven-remote-resources-plugin</artifactId>
                <executions>
                    <execution>
                        <goals>
                            <goal>add-report</goal>
                        </goals>
                        <phase>test</phase>
                    </execution>
                </executions>
            </plugin>
        </plugins>
    </build>
</project>
<!-- Plugin versions and config -->
+ <maven-remote-resources-plugin.version>1.5</maven-remote-resources-plugin.version>
+ <maven-surefire-plugin.argLine>-Xmx2048m -XX:MaxPermSize=768m -XX:+HeapDumpOnOutOfMemoryError</maven-surefire-plugin.argLine>
+ <maven-surefire-plugin.version>${cdh.surefire.version}</maven-surefire-plugin.version>
+ <maven-surefire-report-plugin.version>${maven-surefire-plugin.version}</maven-surefire-report-plugin.version>
@@ -359,7 +360,7 @@
    <artifactId>hadoop-openstack</artifactId>
    <version>${project.version}</version>
  </dependency>
- +
+  <dependency>
+    <groupId>org.apache.hadoop</groupId>
+    <artifactId>hadoop-azure</artifactId>
@@ -1098,7 +1099,23 @@
    <groupId>org.codehaus.mojo</groupId>
    <artifactId>findbugs-maven-plugin</artifactId>
  </plugin>
- +
+  <plugin>
+    <groupId>org.apache.maven.plugins</groupId>
+    <artifactId>maven-remote-resources-plugin</artifactId>
+    <version>${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>
+  <plugin>
+    <groupId>org.apache.maven.plugins</groupId>
+    <artifactId>maven-antrun-plugin</artifactId>
@@ -1214,7 +1231,7 @@
    <rules>
      <DependencyConvergence>
        <uniqueVersions>true</uniqueVersions>
-        <uniqueVersions>true</uniqueVersions>
+        <uniqueVersions>true</uniqueVersions>
      </DependencyConvergence>
    </rules>
  </configuration>
<rules>
  
</rules>

<configuration>
diff --git a/pom.xml b/pom.xml
index b9cd993..005e931 100644
--- a/pom.xml
+++ b/pom.xml
@@ -122,6 +122,7 @@ xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xs
  </module>
  </module>
  </module>
+ <module>hadoop-build-tools</module>
</modules>

<build>
@@ -270,6 +271,32 @@ xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xs
    <inherited>true</inherited>
    <extensions>true</extensions>
  </plugin>
+  <plugin>
+    <!-- Copy license and notice files into hadoop-build-tools'
+         metadata, which will then be bundled into jars.
+    -->
+    <groupId>org.apache.maven.plugins</groupId>
+    <artifactId>maven-antrun-plugin</artifactId>
+    <executions>
+      <execution>
+        <id>copy-files</id>
+        <phase>process-resources</phase>
+        <goals>
+          <goal>run</goal>
+        </goals>
+        <configuration>
+          <target>
+            <copy todir="${project.build.directory}/../hadoop-build-tools/src/main/resources/META-INF/">
+              <fileset dir="${project.build.directory}/../">
+                <include name="LICENSE.txt"/>
+                <include name="NOTICE.txt"/>
+              </fileset>
+            </copy>
+          </target>
+        </configuration>
+      </execution>
+    </executions>
+  </plugin>
</build>
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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;

/**
* 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 new FsCreateModes(mode, umask);
        } else {
            return mode;
        }
    }
}
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
public String toString() {
 return MessageFormat.format("{'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;
 }
 if (o instanceof FsCreateModes) {
 FsCreateModes other = (FsCreateModes) o;
 if (!masked.equals(other.masked)) {
 return false;
 }
 if (!unmasked.equals(other.unmasked)) {
 return false;
 }
 return true;
 }
 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 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;
}

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 08b7efa95202b6d6ada143cab9369fac4ebb4c49)
(cherry picked from commit e16040b2af5046e3919a1f20cb801ba2ebc823c9)
(cherry picked from commit 22403be0c3b311c54a66d9d8a5d606bf5045fc1d)
(cherry picked from commit 7cf625188cb2369986bf5c98e3f1bbfb8cd198)
(cherry picked from commit 36a9150b2b0a79f03e45ab8d80b9a28ef6d305d8)

Change-Id: Iaba89f2511dc4d323d5f65e03e37fb7bce7a3d9
---
LICENSE.txt | 103 +++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
1 file changed, 103 insertions(+)

diff --git a/LICENSE.txt b/LICENSE.txt
index 729dbc6..5bbc8ad 100644
--- a/LICENSE.txt
+++ b/LICENSE.txt
@@ -414,3 +414,106 @@ The binary distribution of this product bundles binaries of snappy license:

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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:


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

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hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/d3-LICENSE

1.7.9.5

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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;

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.
 */
public String getOwner() {
    return owner;
}

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

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

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

/**
 * Returns the permission set 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(stickyBit)
        .append(" entries: ").append(entries)
        .toString();
}

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

    /**
     * Sets the file owner.
     *
     * @param owner String file owner
     * @return Builder this builder, for call chaining
     */

public Builder owner(String owner) {
    this.owner = owner;
    return this;
}

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

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

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

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

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

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

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

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

return getEffectivePermission(entry, permission);
}

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

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);
                assertEquals(s, f.toShort());
                FsPermission f2 = new FsPermission(f);
                assertEquals(s, f2.toShort());
            }
        }
    }
}

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('T', fString.charAt(8));
                }
            }
        }
    }
}
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 = 07777;
        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(InvalidArgumentException iae) {
                assertTrue("Exception should specify parsing error and invalid umask: " + iae.getMessage(), 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"},
    {"u=rwx,g=rw,o=w", "15"},
    {"u=rwx,g=rw,o=x", "16"},
    {"u=rwx,g=rw,o=", "17"},
    {"u=rwx,g=rx,o=rwx", "20"},
    {"u=rwx,g=rx,o=rw", "21"},
    {"u=rwx,g=rx,o=rx", "22"},
    {"u=rwx,g=rx,o=r", "23"},
    {"u=rwx,g=rx,o=wx", "24"},
    {"u=rwx,g=rx,o=w", "25"},
    {"u=rwx,g=rx,o=x", "26"},
    {"u=rwx,g=rx,o=", "27"},
    {"u=rwx,g=r,o=rwx", "30"},
    {"u=rwx,g=r,o=rw", "31"},
    {"u=rwx,g=r,o=rx", "32"},
    {"u=rwx,g=r,o=r", "33"},
};
<table>
<thead>
<tr>
<th>Permission</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>u=rwx,g=r,o=wx</code></td>
<td>34</td>
</tr>
<tr>
<td><code>u=rwx,g=r,o=w</code></td>
<td>35</td>
</tr>
<tr>
<td><code>u=rwx,g=r,o=x</code></td>
<td>36</td>
</tr>
<tr>
<td><code>u=rwx,g=r,o=</code></td>
<td>37</td>
</tr>
<tr>
<td><code>u=rwx,g=wx,o=rwx</code></td>
<td>40</td>
</tr>
<tr>
<td><code>u=rwx,g=wx,o=rw</code></td>
<td>41</td>
</tr>
<tr>
<td><code>u=rwx,g=wx,o=rx</code></td>
<td>42</td>
</tr>
<tr>
<td><code>u=rwx,g=wx,o=r</code></td>
<td>43</td>
</tr>
<tr>
<td><code>u=rwx,g=wx,o=wx</code></td>
<td>44</td>
</tr>
<tr>
<td><code>u=rwx,g=wx,o=w</code></td>
<td>45</td>
</tr>
<tr>
<td><code>u=rwx,g=wx,o=x</code></td>
<td>46</td>
</tr>
<tr>
<td><code>u=rwx,g=wx,o=</code></td>
<td>47</td>
</tr>
<tr>
<td><code>u=rwx,g=w,o=rwx</code></td>
<td>50</td>
</tr>
<tr>
<td><code>u=rwx,g=w,o=rw</code></td>
<td>51</td>
</tr>
<tr>
<td><code>u=rwx,g=w,o=rx</code></td>
<td>52</td>
</tr>
<tr>
<td><code>u=rwx,g=w,o=r</code></td>
<td>53</td>
</tr>
<tr>
<td><code>u=rwx,g=w,o=wx</code></td>
<td>54</td>
</tr>
<tr>
<td><code>u=rwx,g=w,o=w</code></td>
<td>55</td>
</tr>
<tr>
<td><code>u=rwx,g=w,o=x</code></td>
<td>56</td>
</tr>
<tr>
<td><code>u=rwx,g=w,o=</code></td>
<td>57</td>
</tr>
<tr>
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<td>60</td>
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<tr>
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<td>61</td>
</tr>
<tr>
<td><code>u=rwx,g=x,o=rx</code></td>
<td>62</td>
</tr>
<tr>
<td><code>u=rwx,g=x,o=r</code></td>
<td>63</td>
</tr>
<tr>
<td><code>u=rwx,g=x,o=wx</code></td>
<td>64</td>
</tr>
<tr>
<td><code>u=rwx,g=x,o=w</code></td>
<td>65</td>
</tr>
<tr>
<td><code>u=rwx,g=x,o=x</code></td>
<td>66</td>
</tr>
<tr>
<td><code>u=rwx,g=x,o=</code></td>
<td>67</td>
</tr>
<tr>
<td><code>u=rwx,g,o=rwx</code></td>
<td>70</td>
</tr>
<tr>
<td><code>u=rwx,g,o=rw</code></td>
<td>71</td>
</tr>
<tr>
<td><code>u=rwx,g,o=rx</code></td>
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<td>73</td>
</tr>
<tr>
<td><code>u=rwx,g,o=wx</code></td>
<td>74</td>
</tr>
<tr>
<td><code>u=rwx,g,o=w</code></td>
<td>75</td>
</tr>
<tr>
<td><code>u=rwx,g,o=x</code></td>
<td>76</td>
</tr>
<tr>
<td><code>u=rwx,g,o=</code></td>
<td>77</td>
</tr>
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<td>100</td>
</tr>
<tr>
<td><code>u=rw,g=rwx,o=rw</code></td>
<td>101</td>
</tr>
<tr>
<td><code>u=rw,g=rwx,o=rx</code></td>
<td>102</td>
</tr>
<tr>
<td><code>u=rw,g=rwx,o=r</code></td>
<td>103</td>
</tr>
<tr>
<td><code>u=rw,g=rwx,o=wx</code></td>
<td>104</td>
</tr>
<tr>
<td><code>u=rw,g=rwx,o=w</code></td>
<td>105</td>
</tr>
<tr>
<td><code>u=rw,g=rwx,o=x</code></td>
<td>106</td>
</tr>
<tr>
<td><code>u=rw,g=rwx,o=</code></td>
<td>107</td>
</tr>
<tr>
<td><code>u=rw,g=rw,o=rwx</code></td>
<td>110</td>
</tr>
<tr>
<td><code>u=rw,g=rw,o=rw</code></td>
<td>111</td>
</tr>
<tr>
<td><code>u=rw,g=rw,o=rx</code></td>
<td>112</td>
</tr>
<tr>
<td><code>u=rw,g=rw,o=r</code></td>
<td>113</td>
</tr>
</tbody>
</table>
Open Source Used In Cisco Kinetic for Cities 4.1.0.03389
From 4f87ec69c1fa15ae3fee2e6525f5c1129003b786 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 3187db7a8b6376134a00e5c9c4693d8eb762c9d)

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;
     } // 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());
diff --git 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
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 @@
  
-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

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*/
3S
ImmutableFsPermissionInnerClasses

Lorg/apache/commons/logging/Log;FACTORY&Lorg/apache/hadoop/io/WritableFactory;MAX_PERMISSION_LENGTH

ImmutableFsPermissionInnerClasses

D

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

stickyBitZDEPRECATED_UMASK_LABELLjava/lang/String;UMASK_LABEL

DEFAULT_UMASKFSACTION_VALUES+[Lorg/apache/hadoop/fs/permission/FsAction;createImmutable1(S)Lorg/apache/hadoop/fs/permission/FsPermission;CodeLineNumberTableLocalVariableTable

permissionS<init>()Vthis.Lorg/apache/hadoop/fs/permission/FsPermission;(Lorg/apache/hadoop/fs/permission/FsAction;Lorg/apache/hadoop/fs/permission/FsAction;)Vugo(Lorg/apache/hadoop/fs/permission/FsPermission;Lorg/apache/hadoop/fs/permission/FsAction;Lorg/apache/hadoop/fs/permission/FsAction;Lorg/apache/hadoop/fs/permission/FsAction;Lorg/apache/hadoop/fs/permission/FsAction;Lorg/apache/hadoop/fs/permission/FsAction;Lorg/apache/hadoop/fs/permission/FsAction;Z)V

getUserAction().Lorg/apache/hadoop/fs/permission/FsAction:getGroupActiongetOtherActionsetfromShortnv

Exceptions

readFields(Ljava/io/DataInput;)V

getMasked0().Lorg/apache/hadoop/fs/permission/FsPermission:getUnmaskedreadC(Ljava/io/DataInput;)Lorg/apache/hadoop/fs/permission/FsPermission:ptoShort(S)S

equals(Ljava/lang/Object;)Z

hashCode()I

toString()Ljava/lang/String;

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

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

getAclBitgetEncryptedBitsetUMaskW(Lorg/apache/hadoop/conf/Configuration;Lorg/apache/hadoop/fs/permission/
Subject: [PATCH 1755/2345] HADOOP-13350. Additional fix to LICENSE and NOTICE. Contributed by Xiao Chen.

(cherry picked from commit 830516b8c5d25b8dd1434d8b9caab89cf5e43359)
(cherry picked from commit e64094484de0e47850148d4e33ca3c189ec93e01c)

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

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Oracle

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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
  +
  + ------
+ 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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Joseph Reagle <site-policy@w3.org>

Last revised by Reagle $Date: 2005-06-03 18:49:13 -0400 (Fri, 03 Jun 2005) $
ache/hadoop/fs/permission/AclEntry;getName(Ljava/lang/String;
getPermission(Lorg/apache/hadoop/fs/permission/FsAction;getScope1(Lorg/apache/hadoop/fs/permission/AclEntry
Scope;equals(Ljava/lang/Object;);ZoLjava/lang/Object;other
StackMapTablehashCode(ItoStringsbLjava/lang/String;iterator(Lorg/apache/hadoop/fs/permission/AclEntrySc
ope;));VparseAclSpec%(Ljava/lang/String;Z)Ljava/util/List;aclEntryaclStri$Ljava/util/Iterator;aclSpecincludePermissionZ
aclEntriesLjava/util/List;
aclStringsLjava/util/Collection;LocalVariableTypeTable<Ljava/util/List<Lorg/apache/hadoop/fs/permission/AclEntry;
SignatureQ(Ljava/lang/String;Z)Ljava/util/List<Lorg/apache/hadoop/fs/permission/AclEntry;>;parseAclEntry(Ljava/lang/String;Z)Lorg/apache/hadoop/fs/permission/AclEntry;iaeSLjava/lang/IllegalArgumentE
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(defaultST,org/apache/hadoop/fs/permission/AclEntryTypeN"java/lang/IllegalArgumentException"Invalid permission in <aclSpec> :
);Invalid type of acl in <aclSpec> :
);Invalid permission in <aclSpec> :
)
[N]*org/apache/hadoop/fs/permission/AclEntry$1java/util/Listjava/util/Collectionjava/util/Iterator(org/apache/hado
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ject;Ljava/lang/Object;);ZLjava/lang/Object;));IV-
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(Ljava/lang/String;);java/lang/StringBuilder;toLowerCase(C)Ljava/lang/StringBuilder;SYMBOL."org/apache/hado
op/util/StringUtilisGetStringCollection(Ljava/lang/String;Ljava/lang/String;);java/util/Collection;iterator(Ljava/util/I
Iterator;hasNext>(Znext)();Ljava/lang/Object;add(Ljava/lang/String;);Ljava/lang/String;);Ljava/lang/String;);VsetSpec
pec(Lorg/apache/hadoop/fs/permission/AclEntry$Builder;toUpperCasejava/lang/EnumvalueOf5(Ljava/lang/Class;Ljava/lang/String;)
setFileTypeb(Lorg/apache/hadoop/fs/permission/AclEntry$Builder;isEmptysetNameF(Ljava/lang/String;);Ljava/lang/String;
)Lorg/apache/hadoop/fs/permission/AclEntry$Builder;getFsAction>(Ljava/lang/String;);Ljava/lang/String;);Lorg/apache/hadoop/fs/
permission/AclEntry$Action;
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build();Lorg/apache/hadoop/fs/permission/AclEntry$Builder;subsequence(II)Ljava/lang/String;2org/apache/hadoop/classification/
InterfaceAudience3org/apache/hadoop/classification/InterfaceStabilityI
>:@ABCDEFGH*/14JKL,MNH/!*J4KLOPH/!*FJKLQQRH/!*IOJKLSTHV/+++M*,1*,#*,-,*,ITUWZXJ
VKLVUV>WLX@Y@Z[HNSY*SY*SY*SY*SY*S
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+W/+W:+W:W:+W:+W:+W:/2hijl m/o6psqFsMtTu’wJeKL]]^X_.ah**+*,*+.IJ4KL>:@ABCDEFGbHCYM*N-
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The actual SAX classes in xml-commons came from:
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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();
        }
    }

    /**
     * Calculates the pivot index on a list of AclEntries after default entries
     * have been separated. If there are no default entries, returns PIVOT_NOT_FOUND.
     * If the default entries are present, the pivot index is the index of the first
     * access entry after the last default entry.
     * 
     * @param aclEntries List<AclEntry> to separate
     * @return int pivot index or PIVOT_NOT_FOUND
     */
    private int calculatePivotOnDefaultEntries(List<AclEntry> aclEntries) {
        // Implementation logic here
    }
}
* Returns access entries.
*  
* @return List<AclEntry> containing just access entries, or an empty list if
* there are no access entries
*/
public List<AclEntry> getAccessEntries() {
    return accessEntries;
}

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

/**
* Returns the pivot point in the list between the access entries and the
* default entries. This is the index of the first element in the list that is
* a default entry.
*  
* @param aclBuilder ArrayList<AclEntry> containing entries to build
* @return int pivot point, or -1 if list contains no default entries
*/
private static int calculatePivotOnDefaultEntries(List<AclEntry> aclBuilder) {
    for (int i = 0; i < aclBuilder.size(); ++i) {
        if (aclBuilder.get(i).getScope() == AclEntryScope.DEFAULT) {
            return i;
        }
    }
    return PIVOT_NOT_FOUND;
}
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: I18247b784c3ca593c977453c83f7c0a07d4bc143
---
.../src/main/resources/core-default.xml            |    4 ++--
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
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3'

; <=>
?@A=BC=DE
FGHIJPIVOT_NOT_FOUNDI
ConstantValue
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
Subject: [PATCH 1864/2345] HDFS-7420. Delegate permission checks to
FSDirectory. Contributed by Haohui Mai.

(cherry picked from commit b395f58e850e700cb9273d86510276ce28962a85)

Change-Id: I64d6783daffb1c06a5fd2559fede5f7efb02766c

---.../hadoop/hdfs/server/namenode/FSDirectory.java | 84 ++++++++++++++++++++---
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 static INodeDirectory createRoot(FSNamesystem namesystem) {
   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 @@
   public int getWriteHoldCount() {
      *
      private final NameCache<ByteArray> nameCache;

-FSDirectory(FSNamesystem ns, Configuration conf) {
+FSDirectory(FSNamesystem 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 =
      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 ?

@@ -3420,4 +3430,76 @@ INodesInPath 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, 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);
+ }
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);
}
private final String fsOwnerShortUserName;
private final String supergroup;
private final boolean standbyShouldCheckpoint;

static FSNamesystem loadFromDisk(Configuration conf) throws IOException {
    try {
        return new FSPermissionChecker(fsOwnerShortUserName, supergroup, getRemoteUser);
    } catch (IOException ioe) {
        throw new AccessControlException(ioe);
    }
}

/**
 * @param src
 * @param recursive
 * @param logRetryCache
 */
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);
    }
}
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
@@ -6603,30 +6597,17 @@ 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, 
+  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.isUser()) {
-    waitForLoadingFSImage();
-    readLock();
-    try {
-      pc.checkPermission(path, dir, doCheckOwner, ancestorAccess, 
-        parentAccess, access, subAccess, ignoreEmptyDir, resolveLink);
-    } finally {
-      readUnlock();
-    }
-  }
+  dir.checkPermission(pc, path, doCheckOwner, ancestorAccess, parentAccess, 
+    access, subAccess, ignoreEmptyDir, resolveLink);
}
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

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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:
http://www.w3.org/TR/SVG11/java.html

1.341 spring-beans 5.1.6

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END OF TERMS AND CONDITIONS

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 */

package org.springframework.beans;

import java.beans.PropertyChangeEvent;
import java.lang.reflect.Array;
import java.lang.reflect.Constructor;
import java.lang.reflect.InvocationTargetException;
import java.lang.reflect.Modifier;
import java.lang.reflect.UndeclaredThrowableException;
import java.security.PrivilegedActionException;
import java.util.ArrayList;
import java.util.Collection;
import java.util.HashMap;
import java.util.Iterator;
import java.util.List;
import java.util.Map;
import java.util.Optional;
import java.util.Set;
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.springframework.core.CollectionFactory;
import org.springframework.core.ResolvableType;

import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;

import org.springframework.core.CollectionFactory;
import org.springframework.core.ResolvableType;
import org.springframework.core.convert.ConversionException;
import org.springframework.core.convert.ConverterNotFoundException;
import org.springframework.core.convert.TypeDescriptor;
import org.springframework.lang.Nullable;
import org.springframework.util.Assert;
import org.springframework.util.ObjectUtils;
import org.springframework.util.StringUtils;

/**
 * A basic {@link ConfigurablePropertyAccessor} that provides the necessary
 * infrastructure for all typical use cases.
 *
 * <p>This accessor will convert collection and array values to the corresponding
 * target collections or arrays, if necessary. Custom property editors that deal
 * with collections or arrays can either be written via PropertyEditor's
 * {@code setValue}, or against a comma-delimited String via {@code setAsText},
 * as String arrays are converted in such a format if the array itself is not
 * assignable.
 *
 * @author Juergen Hoeller
 * @author Stephane Nicoll
 * @author Rod Johnson
 * @author Rob Harrop
 * @since 4.2
 * @see registerCustomEditor
 * @see setPropertyValues
 * @see setPropertyValue
 * @see getPropertyValue
 * @see getPropertyType
 * @see BeanWrapper
 * @see PropertyEditorRegistrySupport
 */
public abstract class AbstractNestablePropertyAccessor extends AbstractPropertyAccessor {

/**
 * We'll create a lot of these objects, so we don't want a new logger every time.
 */
private static final Log logger = LogFactory.getLog(AbstractNestablePropertyAccessor.class);

private int autoGrowCollectionLimit = Integer.MAX_VALUE;

private @Nullable Object wrappedObject;
private String nestedPath = "";

private @Nullable Object rootObject;

/** Map with cached nested Accessors: nested path -> Accessor instance. */
@Nullable
private Map<String, AbstractNestablePropertyAccessor> nestedPropertyAccessors;

/**
 * Create a new empty accessor. Wrapped instance needs to be set afterwards.
 * Registers default editors.
 * @see #setWrappedInstance
 */
protected AbstractNestablePropertyAccessor() {
    this(true);
}

/**
 * Create a new empty accessor. Wrapped instance needs to be set afterwards.
 * @param registerDefaultEditors whether to register default editors
 * (can be suppressed if the accessor won't need any type conversion)
 * @see #setWrappedInstance
 */
protected AbstractNestablePropertyAccessor(boolean registerDefaultEditors) {
    if (registerDefaultEditors) {
        registerDefaultEditors();
    }
    this.typeConverterDelegate = new TypeConverterDelegate(this);
}

/**
 * Create a new accessor for the given object.
 * @param object object wrapped by this accessor
 */
protected AbstractNestablePropertyAccessor(Object object) {
    registerDefaultEditors();
    setWrappedInstance(object);
}

/**
 * Create a new accessor, wrapping a new instance of the specified class.
 * @param clazz class to instantiate and wrap
 */
protected AbstractNestablePropertyAccessor(Class<?> clazz) {
    registerDefaultEditors();
    setWrappedInstance(BeanUtils.instantiateClass(clazz));
}

/**
 * Create a new accessor for the given object,
protected AbstractNestablePropertyAccessor(Object object, String nestedPath, Object rootObject) {  
  registerDefaultEditors();  
  setWrappedInstance(object, nestedPath, rootObject);  
}

/**
 * Create a new accessor for the given object,
 * registering a nested path that the object is in.
 * @param object object wrapped by this accessor
 * @param nestedPath the nested path of the object
 * @param parent the containing accessor (must not be { @code null})
 */
protected AbstractNestablePropertyAccessor(Object object, String nestedPath, AbstractNestablePropertyAccessor parent) {
  setWrappedInstance(object, nestedPath, parent.getWrappedInstance());
  setExtractOldValueForEditor(parent.isExtractOldValueForEditor());
  setAutoGrowNestedPaths(parent.isAutoGrowNestedPaths());
  setAutoGrowCollectionLimit(parent.getAutoGrowCollectionLimit());
  setConversionService(parent.getConversionService());
}

/**
 * Specify a limit for array and collection auto-growing.
 * <p>Default is unlimited on a plain accessor.
 */
public void setAutoGrowCollectionLimit(int autoGrowCollectionLimit) {
  this.autoGrowCollectionLimit = autoGrowCollectionLimit;
}

/**
 * Return the limit for array and collection auto-growing.
 */
public int getAutoGrowCollectionLimit() {
  return this.autoGrowCollectionLimit;
}

/**
 * Switch the target object, replacing the cached introspection results only
 * if the class of the new object is different to that of the replaced object.
 * @param object the new target object
 */
public void setWrappedInstance(Object object) {
setWrappedInstance(object, "", null);
}

/**
 * Switch the target object, replacing the cached introspection results only
 * if the class of the new object is different to that of the replaced object.
 * @param object the new target object
 * @param nestedPath the nested path of the object
 * @param rootObject the root object at the top of the path
 */
public void setWrappedInstance(Object object, @Nullable String nestedPath, @Nullable Object rootObject) {
    this.wrappedObject = ObjectUtils.unwrapOptional(object);
    Assert.notNull(this.wrappedObject, "Target object must not be null");
    this.nestedPath = (nestedPath != null ? nestedPath : "");
    this.rootObject = (!this.nestedPath.isEmpty() ? rootObject : this.wrappedObject);
    this.nestedPropertyAccessors = null;
    this.typeConverterDelegate = new TypeConverterDelegate(this, this.wrappedObject);
}

public final Object getWrappedInstance() {
    Assert.state(this.wrappedObject != null, "No wrapped object");
    return this.wrappedObject;
}

public final Class<?> getWrappedClass() {
    return getWrappedInstance().getClass();
}

/**
 * Return the nested path of the object wrapped by this accessor.
 */
public final String getNestedPath() {
    return this.nestedPath;
}

/**
 * Return the root object at the top of the path of this accessor.
 * @see #getNestedPath
 */
public final Object getRootInstance() {
    Assert.state(this.rootObject != null, "No root object");
    return this.rootObject;
}

/**
 * Return the class of the root object at the top of the path of this accessor.
 * @see #getNestedPath
 */
public final Class<?> getRootClass() {
    return getRootInstance().getClass();
}

@Override
public void setPropertyValue(String propertyName, @Nullable Object value) throws BeansException {
    AbstractNestablePropertyAccessor nestedPa;
    try {
        nestedPa = getPropertyAccessorForPropertyPath(propertyName);
    } catch (NotReadablePropertyException ex) {
        throw new NotWritablePropertyException(getRootClass(), this.nestedPath + propertyName,
            "Nested property in path " + propertyName + " does not exist", ex);
    }
    PropertyTokenHolder tokens = getPropertyNameTokens(getFinalPath(nestedPa, propertyName));
    nestedPa.setPropertyValue(tokens, new PropertyValue(propertyName, value));
}

@Override
public void setPropertyValue(PropertyValue pv) throws BeansException {
    PropertyTokenHolder tokens = (PropertyTokenHolder) pv.resolvedTokens;
    if (tokens == null) {
        String propertyName = pv.getName();
        AbstractNestablePropertyAccessor nestedPa;
        try {
            nestedPa = getPropertyAccessorForPropertyPath(propertyName);
        } catch (NotReadablePropertyException ex) {
            throw new NotWritablePropertyException(getRootClass(), this.nestedPath + propertyName,
                "Nested property in path " + propertyName + " does not exist", ex);
        }
        tokens = getPropertyNameTokens(getFinalPath(nestedPa, propertyName));
        if (nestedPa == this) {
            pv.getOriginalPropertyValue().resolvedTokens = tokens;
        }
        nestedPa.setPropertyValue(tokens, pv);
    } else {
        setPropertyValue(tokens, pv);
    }
}

protected void setPropertyValue(PropertyTokenHolder tokens, PropertyValue pv) throws BeansException {
    if (tokens.keys != null) {
        processKeyedProperty(tokens, pv);
    } else {
        processLocalProperty(tokens, pv);
    }
}
private void processKeyedProperty(PropertyTokenHolder tokens, PropertyValue pv) {
    Object propValue = getPropertyHoldingValue(tokens);
    PropertyHandler ph = getLocalPropertyHandler(tokens.actualName);
    if (ph == null) {
        throw new InvalidPropertyException(getRootClass(), this.nestedPath + tokens.actualName, "No property handler found");
    }
    Assert.state(tokens.keys != null, "No token keys");
    String lastKey = tokens.keys[tokens.keys.length - 1];

    if (propValue.getClass().isArray()) {
        Class<?> requiredType = propValue.getClass().getComponentType();
        int arrayIndex = Integer.parseInt(lastKey);
        Object oldValue = null;
        try {
            if (isExtractOldValueForEditor() && arrayIndex < Array.getLength(propValue)) {
                oldValue = Array.get(propValue, arrayIndex);
            }
            Object convertedValue = convertIfNecessary(tokens.canonicalName, oldValue, pv.getValue(),
            requiredType, ph.nested(tokens.keys.length));
            int length = Array.getLength(propValue);
            if (arrayIndex >= length && arrayIndex < this.autoGrowCollectionLimit) {
                Class<?> componentType = propValue.getClass().getComponentType();
                Object newArray = Array.newInstance(componentType, arrayIndex + 1);
                System.arraycopy(propValue, 0, newArray, 0, length);
                setPropertyValue(tokens.actualName, newArray);
                propValue = getPropertyValue(tokens.actualName);
            }
            Array.set(propValue, arrayIndex, convertedValue);
        }
        catch (IndexOutOfBoundsException ex) {
            throw new InvalidPropertyException(getRootClass(), this.nestedPath + tokens.canonicalName,
            "Invalid array index in property path "+ tokens.canonicalName + "/", ex);
        }
    }
    else if (propValue instanceof List) {
        Class<?> requiredType = ph.getCollectionType(tokens.keys.length);
        List<Object> list = (List<Object>) propValue;
        int index = Integer.parseInt(lastKey);
        Object oldValue = null;
        if (isExtractOldValueForEditor() && index < list.size()) {
            oldValue = list.get(index);
        }
    }
}
Object convertedValue = convertIfNecessary(tokens.canonicalName, oldValue, pv.getValue(),
requiredType, ph.nested(tokens.keys.length));
int size = list.size();
if (index >= size && index < this.autoGrowCollectionLimit) {
    for (int i = size; i < index; i++) {
        try {
            list.add(null);
        }
        catch (NullPointerException ex) {
            throw new InvalidPropertyException(getRootClass(), this.nestedPath + tokens.canonicalName,
                "Cannot set element with index " + index + " in List of size " +
                size + ", accessed using property path " + tokens.canonicalName +
                ": List does not support filling up gaps with null elements");
        }
    }
    list.add(convertedValue);
} else {
    try {
        list.set(index, convertedValue);
    }
    catch (IndexOutOfBoundsException ex) {
        throw new InvalidPropertyException(getRootClass(), this.nestedPath + tokens.canonicalName,
            "Invalid list index in property path " + tokens.canonicalName + ", ex");
    }
}
else if (propValue instanceof Map) {
    Class<? extends Map> mapKeyType = ph.getMapKeyType(tokens.keys.length);
    Class<? extends Map> mapValueType = ph.getMapValueType(tokens.keys.length);
    Map<Object, Object> map = (Map<Object, Object>) propValue;
    // IMPORTANT: Do not pass full property name in here - property editors
    // must not kick in for map keys but rather only for map values.
    TypeDescriptor typeDescriptor = TypeDescriptor.valueOf(mapKeyType);
    Object convertedMapKey = convertIfNecessary(null, null, lastKey, mapKeyType, typeDescriptor);
    Object oldValue = null;
    if (isExtractOldValueForEditor()) {
        oldValue = map.get(convertedMapKey);
    }
    // Pass full property name and old value in here, since we want full
    // conversion ability for map values.
    Object convertedMapValue = convertIfNecessary(tokens.canonicalName, oldValue, pv.getValue(),
        mapValueType, ph.nested(tokens.keys.length));
    map.put(convertedMapKey, convertedMapValue);
}
else {
throw new InvalidPropertyException(getRootClass(), this.nestedPath + tokens.canonicalName,
    "Property referenced in indexed property path '" + tokens.canonicalName + 
    '" is neither an array nor a List nor a Map; returned value was [" + propValue + "]");
}

private Object getPropertyHoldingValue(PropertyTokenHolder tokens) {
    // Apply indexes and map keys: fetch value for all keys but the last one.
    Assert.state(tokens.keys != null, "No token keys");
    PropertyTokenHolder getterTokens = new PropertyTokenHolder(tokens.actualName);
    getterTokens.canonicalName = tokens.canonicalName;
    getterTokens.keys = new String[tokens.keys.length - 1];
    System.arraycopy(tokens.keys, 0, getterTokens.keys, 0, tokens.keys.length - 1);

    Object propValue;
    try {
        propValue = getPropertyValue(getterTokens);
    }
    catch (NotReadablePropertyException ex) {
        throw new NotWritablePropertyException(getRootClass(), this.nestedPath + tokens.canonicalName,
            "Cannot access indexed value in property referenced " + 
            "in indexed property path '" + tokens.canonicalName + "'", ex);
    }

    if (propValue == null) {
        // null map value case
        if (isAutoGrowNestedPaths()) {
            int lastKeyIndex = tokens.canonicalName.lastIndexOf("");
            getterTokens.canonicalName = tokens.canonicalName.substring(0, lastKeyIndex);
            propValue = setDefaultValue(getterTokens);
        } else {
            throw new NullValueInNestedPathException(getRootClass(), this.nestedPath + tokens.canonicalName,
                "Cannot access indexed value in property referenced " + 
                "in indexed property path '" + tokens.canonicalName + "': returned null");
        }
    }

    return propValue;
}

private void processLocalProperty(PropertyTokenHolder tokens, PropertyValue pv) {
    PropertyHandler ph = getLocalPropertyHandler(tokens.actualName);
    if (ph == null || !ph.isWritable()) {
        if (pv.isOptional()) {
            if (logger.isDebugEnabled()) {
                logger.debug("Ignoring optional value for property "+
                    tokens.actualName + "");
            }
        } else {
            throw new InvalidPropertyException(getRootClass(), this.nestedPath + tokens.actualName,
                "Property referenced in indexed property path '" + tokens.actualName + 
                '" is neither an array nor a List nor a Map; returned value was [" + pv.getValue() + "]");
        }
    }
Object oldValue = null;
try {
    Object originalValue = pv.getValue();
    Object valueToApply = originalValue;
    if (!Boolean.FALSE.equals(pv.conversionNecessary)) {
        if (pv.isConverted()) {
            valueToApply = pv.getConvertedValue();
        } else {
            if (isExtractOldValueForEditor() && ph.isReadable()) {
                try {
                    oldValue = ph.getValue();
                } catch (Exception ex) {
                    if (ex instanceof PrivilegedActionException) {
                        ex = ((PrivilegedActionException) ex).getException();
                    }
                    if (logger.isDebugEnabled()) {
                        logger.debug("Could not read previous value of property ", ex);
                    }
                }
            } else {
                oldValue = pv.getValue();
            }
        }
        valueToApply = convertForProperty(tokens.canonicalName, oldValue, originalValue, ph.toTypeDescriptor());
    } pv.getOriginalPropertyValue().conversionNecessary = (valueToApply != originalValue);
    ph.setValue(valueToApply);
} catch (TypeMismatchException ex) {
    throw ex;
} catch (InvocationTargetException ex) {
    PropertyChangeEvent propertyChangeEvent = new PropertyChangeEvent(getRootInstance(), this.nestedPath + tokens.canonicalName + oldValue, pv.getValue());
    if (ex.getTargetException() instanceof ClassCastException) {
        throw new TypeMismatchException(propertyChangeEvent, ph.getPropertyType(), ex.getTargetException());
    } else {
        Throwable cause = ex.getTargetException();
    }
}
if (cause instanceof UndeclaredThrowableException) {
  // May happen e.g. with Groovy-generated methods
  cause = cause.getCause();
}
throw new MethodInvocationException(propertyChangeEvent, cause);
}
}
catch (Exception ex) {
  PropertyChangeEvent pce = new PropertyChangeEvent(
    getRootInstance(), this.nestedPath + tokens.canonicalName, oldValue, pv.getValue());
  throw new MethodInvocationException(pce, ex);
}
}

@Override
@Nullable
public Class<?> getPropertyType(String propertyName) throws BeansException {
  try {
    PropertyHandler ph = getPropertyHandler(propertyName);
    if (ph != null) {
      return ph.getPropertyType();
    }
    else {
      // Maybe an indexed/mapped property...
      Object value = getPropertyValue(propertyName);
      if (value != null) {
        return value.getClass();
      }
      // Check to see if there is a custom editor,
      // which might give an indication on the desired target type.
      Class<?> editorType = guessPropertyTypeFromEditors(propertyName);
      if (editorType != null) {
        return editorType;
      }
    }
  } catch (InvalidPropertyException ex) {
    // Consider as not determinable.
  }
  return null;
}

@Override
@Nullable
public TypeDescriptor getPropertyTypeDescriptor(String propertyName) throws BeansException {
  try {
    AbstractNestablePropertyAccessor nestedPa = getPropertyAccessorForPropertyPath(propertyName);
    String finalPath = getFinalPath(nestedPa, propertyName);
    // Consider as not determinable.
  }
  return null;
}

@Nullable
public String getFinalPath() {
  // Consider as not determinable.
  return null;
}
PropertyTokenHolder tokens = getPropertyNameTokens(finalPath);
PropertyHandler ph = nestedPa.getLocalPropertyHandler(tokens.actualName);
if (ph != null) {
    if (tokens.keys != null) {
        if (ph.isReadable() || ph.isWritable()) {
            return ph.nested(tokens.keys.length);
        }
    }
    else {
        if (ph.isReadable() || ph.isWritable()) {
            return ph.toTypeDescriptor();
        }
    }
}
catch (InvalidPropertyException ex) {
    // Consider as not determinable.
}
return null;

@Override
public boolean isReadableProperty(String propertyName) {
    try {
        PropertyHandler ph = getPropertyValue(propertyName);  
        if (ph != null) {
            return ph.isReadable();
        }
    }
    catch (InvalidPropertyException ex) {
        // Cannot be evaluated, so can't be readable.
    }
    return false;
}

@override
public boolean isWritableProperty(String propertyName) {
    try {
        PropertyHandler ph = getPropertyValue(propertyName);  
        if (ph != null) {
            return ph.isWritable();
        }
    }
    catch (InvalidPropertyException ex) {
        // Cannot be evaluated, so can't be readable.
    }
    return false;
}
// Maybe an indexed/mapped property...
getPropertyValue(propertyName);
return true;
}
}
catch (InvalidPropertyException ex) {
// Cannot be evaluated, so can't be writable.
return false;
}

@Nullable
private Object convertIfNecessary(@Nullable String propertyName, @Nullable Object oldValue,
@Nullable Object newValue, @Nullable Class<?> requiredType, @Nullable TypeDescriptor td)
throws TypeMismatchException {

Assert.state(this.typeConverterDelegate != null, "No TypeConverterDelegate");
try {
return this.typeConverterDelegate.convertIfNecessary(propertyName, oldValue, newValue, requiredType, td);
}
catch (ConverterNotFoundException | IllegalStateException ex) {
PropertyChangeEvent pce =
new PropertyChangeEvent(getRootInstance(), this.nestedPath + propertyName, oldValue, newValue);
throw new ConversionNotSupportedException(pce, requiredType, ex);
}
catch (ConversionException | IllegalArgumentException ex) {
PropertyChangeEvent pce =
new PropertyChangeEvent(getRootInstance(), this.nestedPath + propertyName, oldValue, newValue);
throw new TypeMismatchException(pce, requiredType, ex);
}
}

@Nullable
protected Object convertForProperty(
String propertyName, @Nullable Object oldValue, @Nullable Object newValue, TypeDescriptor td)
throws TypeMismatchException {

return convertIfNecessary(propertyName, oldValue, newValue, td.getType(), td);
}

@Override
@Nullable
public Object getPropertyValue(String propertyName) throws BeansException {
AbstractNestablePropertyAccessor nestedPa = getPropertyAccessorForPropertyPath(propertyName);
PropertyTokenHolder tokens = getPropertyNameTokens(getFinalPath(nestedPa, propertyName));
return nestedPa.getPropertyValue(tokens);
}
@SuppressWarnings("unchecked")
@Nullable
protected Object getPropertyValue(PropertyTokenHolder tokens) throws BeansException {
    String propertyName = tokens.canonicalName;
    String actualName = tokens.actualName;
    PropertyHandler ph = getLocalPropertyHandler(actualName);
    if (ph == null || !ph.isReadable()) {
        throw new NotReadablePropertyException(getRootClass(), this.nestedPath + propertyName);
    }
    try {
        Object value = ph.getValue();
        if (tokens.keys != null) {
            if (value == null) {
                if (isAutoGrowNestedPaths()) {
                    value = setDefaultValue(new PropertyTokenHolder(tokens.actualName));
                } else {
                    throw new NullValueInNestedPathException(getRootClass(), this.nestedPath + propertyName,
                        "Cannot access indexed value of property referenced in indexed "+
                        "property path '"+ propertyName + ": returned null");
                }
            }
            StringBuilder indexedPropertyName = new StringBuilder(tokens.actualName);
            // apply indexes and map keys
            for (int i = 0; i < tokens.keys.length; i++) {
                String key = tokens.keys[i];
                if (value == null) {
                    throw new NullValueInNestedPathException(getRootClass(), this.nestedPath + propertyName,
                        "Cannot access indexed value of property referenced in indexed "+
                        "property path '"+ propertyName + ": returned null");
                }
                else if (value.getClass().isArray()) {
                    int index = Integer.parseInt(key);
                    value = growArrayIfNecessary(value, index, indexedPropertyName.toString());
                    value = Array.get(value, index);
                } else if (value instanceof List) {
                    int index = Integer.parseInt(key);
                    List<Object> list = (List<Object>) value;
                    growCollectionIfNecessary(list, index, indexedPropertyName.toString(), ph, i + 1);
                    value = list.get(index);
                } else if (value instanceof Set) {
                    // Apply index to Iterator in case of a Set.
                    Set<Object> set = (Set<Object>) value;
                    int index = Integer.parseInt(key);
                    if (index < 0 || index >= set.size()) {
                        throw new InvalidPropertyException(getRootClass(), this.nestedPath + propertyName,
                            "Cannot access indexed value of property referenced in indexed "+
                            "property path '"+ propertyName + ": returned null");
                    }
                }
            }
        }
        else { // If no keys, just return the value
            int index = Integer.parseInt(key);
            value = Array.get(value, index);
        }
    } catch (Exception e) {
        throw new NotReadablePropertyException(getRootClass(), this.nestedPath + propertyName,
            "Cannot access indexed value of property referenced in indexed " +
            "property path '"+ propertyName + ": returned null");
    }
    return value;
}
"Cannot get element with index " + index + " from Set of size " + set.size() + ", accessed using property path " + propertyName + ");
}
Iterator<Object> it = set.iterator();
for (int j = 0; it.hasNext(); j++) {
Object elem = it.next();
if (j == index) {
  value = elem;
  break;
}
}
else if (value instanceof Map) {
Map<Object, Object> map = (Map<Object, Object>) value;
Class<?> mapKeyType = ph.getResolvableType().getNested(i + 1).asMap().resolveGeneric(0);
// IMPORTANT: Do not pass full property name in here - property editors
// must not kick in for map keys but rather only for map values.
TypeDescriptor typeDescriptor = TypeDescriptor.valueOf(mapKeyType);
Object convertedMapKey = convertIfNecessary(null, null, key, mapKeyType, typeDescriptor);
value = map.get(convertedMapKey);
}
else {
  throw new InvalidPropertyException(getRootClass(), this.nestedPath + propertyName,
  "Property referenced in indexed property path " + propertyName + 
  " is neither an array nor a List nor a Set nor a Map; returned value was [" + value + "]");
}
indexedPropertyName.append(PROPERTY_KEY_PREFIX).append(key).append(PROPERTY_KEY_SUFFIX);
}
return value;
}
catch (IndexOutOfBoundsException ex) {
  throw new InvalidPropertyException(getRootClass(), this.nestedPath + propertyName,
  "Index of out of bounds in property path " + propertyName + 
  " threw exception", ex);
}
catch (NumberFormatException | TypeMismatchException ex) {
  throw new InvalidPropertyException(getRootClass(), this.nestedPath + propertyName,
  "Invalid index in property path " + propertyName + 
  ", threw exception", ex);
}
catch (InvocationTargetException ex) {
  throw new InvalidPropertyException(getRootClass(), this.nestedPath + propertyName,
  "Getter for property " + actualName + " threw exception", ex);
}
catch (Exception ex) {
  throw new InvalidPropertyException(getRootClass(), this.nestedPath + propertyName,
  "Illegal attempt to get property " + actualName + " threw exception", ex);
}
}
/**
 * Return the {@link PropertyHandler} for the specified {code propertyName}, navigating
 * if necessary. Return {code null} if not found rather than throwing an exception.
 * {param propertyName} the property to obtain the descriptor for
 * {return} the property descriptor for the specified property,
 * or {code null} if not found
 * {throws} BeansException in case of introspection failure
 */
@Nullable
protected PropertyHandler getPropertyHandler(String propertyName) throws BeansException {
    Assert.notNull(propertyName, "Property name must not be null");
    AbstractNestablePropertyAccessor nestedPa = getPropertyAccessorForPropertyPath(propertyName);
    return nestedPa.getLocalPropertyHandler(getFinalPath(nestedPa, propertyName));
}

/**
 * Return a {link PropertyHandler} for the specified local {code propertyName}.
 * Only used to reach a property available in the current context.
 * {param propertyName} the name of a local property
 * {return} the handler for that property, or {code null} if it has not been found
 * {throws} beans exception
 */
@Nullable
protected abstract PropertyHandler getLocalPropertyHandler(String propertyName);

/**
 * Create a new nested property accessor instance.
 * Can be overridden in subclasses to create a PropertyAccessor subclass.
 * {param object} object wrapped by this PropertyAccessor
 * {param nestedPath} the nested path of the object
 * {return} the nested PropertyAccessor instance
 */
protected abstract AbstractNestablePropertyAccessor newNestedPropertyAccessor(Object object, String nestedPath);

/**
 * Create a {link NotWritablePropertyException} for the specified property.
 */
protected abstract NotWritablePropertyException createNotWritablePropertyException(String propertyName);

private Object growArrayIfNecessary(Object array, int index, String name) {
    if (!isAutoGrowNestedPaths()) {
        return array;
    }
    int length = Array.getLength(array);
    if (index >= length && index < this.autoGrowCollectionLimit) {
Class<?> componentType = array.getClass().getComponentType();
Object newArray = Array.newInstance(componentType, index + 1);
System.arraycopy(array, 0, newArray, 0, length);
for (int i = length; i < Array.getLength(newArray); i++) {
    Array.set(newArray, i, newValue(componentType, null, name));
}
setPropertyValue(name, newArray);
Object defaultValue = getPropertyValue(name);
Assert.state(defaultValue != null, "Default value must not be null");
return defaultValue;
}
else {
    return array;
}
}

private void growCollectionIfNecessary(Collection<Object> collection, int index, String name,
PropertyHandler ph, int nestingLevel) {

    if (!isAutoGrowNestedPaths()) {
        return;
    }
    int size = collection.size();
    if (index >= size && index < this.autoGrowCollectionLimit) {
        Class<?> elementType = ph.getResolvableType().getNested(nestingLevel).asCollection().resolveGeneric();
        if (elementType != null) {
            for (int i = collection.size(); i < index + 1; i++) {
                collection.add(newValue(elementType, null, name));
            }
        }
    }

    /**
     * Get the last component of the path. Also works if not nested.
     * @param pa property accessor to work on
     * @param nestedPath property path we know is nested
     * @return last component of the path (the property on the target bean)
     */
    protected String getFinalPath(AbstractNestablePropertyAccessor pa, String nestedPath) {
        if (pa == this) {
            return nestedPath;
        }
        return nestedPath.substring(PropertyAccessorUtils.getLastNestedPropertySeparatorIndex(nestedPath) + 1);
    }

    /**
     * Recursively navigate to return a property accessor for the nested property path.
     */
@param propertyPath property path, which may be nested
@return a property accessor for the target bean
*/
@SuppressWarnings("unchecked")  // avoid nested generic
protected AbstractNestablePropertyAccessor getPropertyAccessorForPropertyPath(String propertyPath) {
    int pos = PropertyAccessorUtils.getFirstNestedPropertySeparatorIndex(propertyPath);
    // Handle nested properties recursively.
    if (pos > -1) {
        String nestedProperty = propertyPath.substring(0, pos);
        String nestedPath = propertyPath.substring(pos + 1);
        AbstractNestablePropertyAccessor nestedPa = getNestedPropertyAccessor(nestedProperty);
        return nestedPa.getPropertyAccessorForPropertyPath(nestedPath);
    } else {
        return this;
    }
}

/**
 * Retrieve a Property accessor for the given nested property.
 * Create a new one if not found in the cache.
 * <p>Note: Caching nested PropertyAccessors is necessary now,
 * to keep registered custom editors for nested properties.
 * @param nestedProperty property to create the PropertyAccessor for
 * @return the PropertyAccessor instance, either cached or newly created
 */
private AbstractNestablePropertyAccessor getNestedPropertyAccessor(String nestedProperty) {
    if (this.nestedPropertyAccessors == null) {
        this.nestedPropertyAccessors = new HashMap<>();
    }
    // Get value of bean property.
    PropertyTokenHolder tokens = getPropertyNameTokens(nestedProperty);
    String canonicalName = tokens.canonicalName;
    Object value = getPropertyValue(tokens);
    if (value == null || (value instanceof Optional && !((Optional) value).isPresent())) {
        if (isAutoGrowNestedPaths()) {
            value = setDefaultValue(tokens);
        } else {
            throw new NullValueInNestedPathException(getRootClass(), this.nestedPath + canonicalName);
        }
    } else {
        throw new NullValueInNestedPathException(getRootClass(), this.nestedPath + canonicalName);
    }
    // Lookup cached sub-PropertyAccessor, create new one if not found.
    AbstractNestablePropertyAccessor nestedPa = this.nestedPropertyAccessors.get(canonicalName);
    if (nestedPa == null || nestedPa.getWrappedInstance() != ObjectUtils.unwrapOptional(value)) {
        if (logger.isTraceEnabled()) {
            logger.trace("Creating new nested "+ getClass().getSimpleName() + " for property "+ canonicalName + ".");
        }
    }
}

// Lookup cached sub-PropertyAccessor, create new one if not found.
AbstractNestablePropertyAccessor nestedPa = this.nestedPropertyAccessors.get(canonicalName);
if (nestedPa == null || nestedPa.getWrappedInstance() != ObjectUtils.unwrapOptional(value)) {
    if (logger.isTraceEnabled()) {
        logger.trace("Creating new nested "+ getClass().getSimpleName() + " for property "+ canonicalName + ".");
    }
}
nestedPa = newNestedPropertyAccessor(value, this.nestedPath + canonicalName + NESTED_PROPERTY_SEPARATOR);
// Inherit all type-specific PropertyEditors.
copyDefaultEditorsTo(nestedPa);
copyCustomEditorsTo(nestedPa, canonicalName);
this.nestedPropertyAccessors.put(canonicalName, nestedPa);
}
else {
  if (logger.isTraceEnabled()) {
    logger.trace("Using cached nested property accessor for property "+ canonicalName + ":"));
  }
}
return nestedPa;
}

private Object setDefaultValue(PropertyTokenHolder tokens) {
(PropertyValue pv = createDefaultPropertyValue(tokens);
setPropertyValue(tokens, pv);
Object defaultValue = getPropertyValue(tokens);
Assert.state(defaultValue != null, "Default value must not be null");
return defaultValue;
}

private PropertyValue createDefaultPropertyValue(PropertyTokenHolder tokens) {
TypeDescriptor desc = getPropertyTypeDescriptor(tokens.canonicalName);
if (desc == null) {
  throw new NullValueInNestedPathException(getRootClass(), this.nestedPath + tokens.canonicalName,
  "Could not determine property type for auto-growing a default value");
}
Object defaultValue = newValue(desc.getType(), desc, tokens.canonicalName);
return new PropertyValue(tokens.canonicalName, defaultValue);
}

private Object newValue(Class<?> type, @Nullable TypeDescriptor desc, String name) {
try {
  if (type.isArray()) {
    Class<?> componentType = type.getComponentType();
    // TODO - only handles 2-dimensional arrays
    if (componentType.isArray()) {
      Object array = Array.newInstance(componentType, 1);
      Array.set(array, 0, Array.newInstance(componentType.getComponentType(), 0));
      return array;
    }
    else {
      return Array.newInstance(componentType, 0);
    }
  }

  Object defaultValue = new ValueDesc().getDefaultValue(componentType, tokens.canonicalName,
  "Could not determine property type for auto-growing a default value");
  return newValue(componentType, defaultValue, tokens.canonicalName);
}

private Object setDefaultValue(PropertyTokenHolder tokens) {

(PropertyValue pv = createDefaultPropertyValue(tokens);
setPropertyValue(tokens, pv);
Object defaultValue = getPropertyValue(tokens);
Assert.state(defaultValue != null, "Default value must not be null");
return defaultValue;
}

private PropertyValue createDefaultPropertyValue(PropertyTokenHolder tokens) {
TypeDescriptor desc = getPropertyTypeDescriptor(tokens.canonicalName);
if (desc == null) {
  throw new NullValueInNestedPathException(getRootClass(), this.nestedPath + tokens.canonicalName,
  "Could not determine property type for auto-growing a default value");
}
Object defaultValue = newValue(desc.getType(), desc, tokens.canonicalName);
return new PropertyValue(tokens.canonicalName, defaultValue);
}

private Object newValue(Class<?> type, @Nullable TypeDescriptor desc, String name) {
try {
  if (type.isArray()) {
    Class<?> componentType = type.getComponentType();
    // TODO - only handles 2-dimensional arrays
    if (componentType.isArray()) {
      Object array = Array.newInstance(componentType, 1);
      Array.set(array, 0, Array.newInstance(componentType.getComponentType(), 0));
      return array;
    }
    else {
      return Array.newInstance(componentType, 0);
    }
  }

  Object defaultValue = new ValueDesc().getDefaultValue(componentType, tokens.canonicalName,
  "Could not determine property type for auto-growing a default value");
  return newValue(componentType, defaultValue, tokens.canonicalName);
}
else if (Collection.class.isAssignableFrom(type)) {
    TypeDescriptor elementDesc = (desc != null ? desc.getElementTypeDescriptor() : null);
    return CollectionFactory.createCollection(type, (elementDesc != null ? elementDesc.getType() : null), 16);
} else if (Map.class.isAssignableFrom(type)) {
    TypeDescriptor keyDesc = (desc != null ? desc.getMapKeyTypeDescriptor() : null);
    return CollectionFactory.createMap(type, (keyDesc != null ? keyDesc.getType() : null), 16);
} else {
    Constructor<?> ctor = type.getDeclaredConstructor();
    if (Modifier.isPrivate(ctor.getModifiers())) {
        throw new IllegalAccessException("Auto-growing not allowed with private constructor: " + ctor);
    }
    return BeanUtils.instantiateClass(ctor);
}
}

/**
 * Parse the given property name into the corresponding property name tokens.
 * @param propertyName the property name to parse
 * @return representation of the parsed property tokens
 */
private PropertyInfoHolder getPropertyNameTokens(String propertyName) {
    String actualName = null;
    List<String> keys = new ArrayList<>(2);
    int searchIndex = 0;
    while (searchIndex != -1) {
        int keyStart = propertyName.indexOf(PROPERTY_KEY_PREFIX, searchIndex);
        searchIndex = -1;
        if (keyStart != -1) {
            int keyEnd = propertyName.indexOf(PROPERTY_KEY_SUFFIX, keyStart + PROPERTY_KEY_PREFIX.length());
            if (keyEnd != -1) {
                if (actualName == null) {
                    actualName = propertyName.substring(0, keyStart);
                }
                String key = propertyName.substring(keyStart + PROPERTY_KEY_PREFIX.length(), keyEnd);
                if (key.length() > 1 && (key.startsWith("'") && key.endsWith("'"))) {
                    key = key.substring(1, key.length() - 1);
                }
                keys.add(key);
                searchIndex = keyEnd + PROPERTY_KEY_SUFFIX.length();
            }
        }
    }
    String key = propertyName.substring(keyStart + PROPERTY_KEY_PREFIX.length(), keyEnd);
    if (key.length() > 1 && (key.startsWith("" ) && key.endsWith("" ))) {
        (key.startsWith("" ) && key.endsWith("" ))) {
            key = key.substring(1, key.length() - 1);
        }
        keys.add(key);
        searchIndex = keyEnd + PROPERTY_KEY_SUFFIX.length();
    }
}
}
}
PropertyTokenHolder tokens = new PropertyTokenHolder(actualName != null ? actualName : propertyName);
if (!keys.isEmpty()) {
tokens.canonicalName += PROPERTY_KEY_PREFIX +
StringUtils.collectionToDelimitedString(keys, PROPERTY_KEY_SUFFIX + PROPERTY_KEY_PREFIX) +
PROPERTY_KEY_SUFFIX;
tokens.keys = StringUtils.toStringArray(keys);
}
return tokens;
}
@Override
public String toString() {
StringBuilder sb = new StringBuilder(getClass().getName());
if (this.wrappedObject != null) {
sb.append(": wrapping object [").append(ObjectUtils.identityToString(this.wrappedObject)).append("]");
}
else {
sb.append(": no wrapped object set");
}
return sb.toString();
}

/**
* A handler for a specific property.
*/
protected abstract static class PropertyHandler {
private final Class<?> propertyType;
private final boolean readable;
private final boolean writable;
public PropertyHandler(Class<?> propertyType, boolean readable, boolean writable) {
this.propertyType = propertyType;
this.readable = readable;
this.writable = writable;
}
public Class<?> getPropertyType() {
return this.propertyType;
}
public boolean isReadable() {

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return this.readable;
}

public boolean isWritable() {
return this.writable;
}

public abstract TypeDescriptor toTypeDescriptor();

public abstract ResolvableType getResolvableType();

@Nullable
public Class<?> getMapKeyType(int nestingLevel) {
return getResolvableType().getNested(nestingLevel).asMap().resolveGeneric(0);
}

@Nullable
public Class<?> getMapValueType(int nestingLevel) {
return getResolvableType().getNested(nestingLevel).asMap().resolveGeneric(1);
}

@Nullable
public Class<?> getCollectionType(int nestingLevel) {
return getResolvableType().getNested(nestingLevel).asCollection().resolveGeneric();
}

@Nullable
public abstract TypeDescriptor nested(int level);

@Nullable
public abstract Object getValue() throws Exception;

public abstract void setValue(@Nullable Object value) throws Exception;
}

/**
 * Holder class used to store property tokens.
 */
protected static class PropertyTokenHolder {

public PropertyTokenHolder(String name) {
this.actualName = name;
this.canonicalName = name;
}

public String actualName;

...
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1.343 bcprov-jdk16 1.46.0

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package org.springframework.http.converter.protobuf;

import com.google.protobuf.ExtensionRegistry;

/**
 * Google Protocol Messages can contain message extensions that can be parsed if
 * the appropriate configuration has been registered in the {@code ExtensionRegistry}.
 * <p>This interface provides a facility to populate the {@code ExtensionRegistry}.
 * @author Alex Antonov
 * @since 4.1
 * @see <a href="https://developers.google.com/protobuf/docs/reference/java/com/google/protobuf/ExtensionRegistry">com.google.protobuf.ExtensionRegistry</a>
 */
public interface ExtensionRegistryInitializer {

/**
 * Initializes the {@code ExtensionRegistry} with Protocol Message extensions.
 * @param registry the registry to populate
 */
    void initializeExtensionRegistry(ExtensionRegistry registry);
}

1.345 hazelcast 3.6.6
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1.346 spring-expression 5.1.6

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 */

package org.springframework.expression;

/**
 * An AccessException is thrown by an accessor if it has an unexpected problem.
 * @author Andy Clement
 * @since 3.0
 */
@SuppressWarnings("serial")
public class AccessException extends Exception {

/**
 * Create an AccessException with a specific message.
 * @param message the message
 */
public AccessException(String message) {
super(message);
}

/**
 * Create an AccessException with a specific message and cause.
 * @param message the message
 * @param cause the cause
 */
public AccessException(String message, Exception cause) {
    super(message, cause);
}

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*/

* Copyright 2001-2004 The Apache Software Foundation.
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,
 * <code><pre>
 * if (log.isDebugEnabled()) {
 *     ... do something expensive ...
 *     log.debug(theResult);
 * }
 * </pre></code>

*/

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* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
* Configuration of the underlying logging system will generally be done
  * external to the Logging APIs, through whatever mechanism is supported by
  * that system.</p>
* 
* Please note that this interface is identical to that found in JCL
1.1.1.</p>
* 
* @author <a href="mailto:sanders@apache.org">Scott Sanders</a>
* @author Rod Waldhoff
* @version $Id: Log.java,v 1.19 2004/06/06 21:16:04 rdonkin Exp $
*/
public interface Log {

   // -------------------- Logging Properties

   /**
    * Is debug logging currently enabled? </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();

   /**
    * Is error logging currently enabled? </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();

   /**
    * Is fatal logging currently enabled? </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();
/**
 * Is info logging currently enabled?  </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();

/**
 * Is trace logging currently enabled?  </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();

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

// ------------------------------- Logging Methods

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

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

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

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

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

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

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

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

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

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

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

}
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 */

package org.springframework.cache.caffeine;

import java.util.concurrent.Callable;
import java.util.function.Function;
import com.github.benmanes.caffeine.cache.LoadingCache;
import org.springframework.cache.support.AbstractValueAdaptingCache;
import org.springframework.lang.Nullable;
import org.springframework.util.Assert;

/**
 * Spring {@link org.springframework.cache.Cache} adapter implementation
 * on top of a Caffeine {@link com.github.benmanes.caffeine.cache.Cache} instance.
 * <p>Requires Caffeine 2.1 or higher.
 * @author Ben Manes
 * @author Juergen Hoeller
 * @author Stephane Nicoll
 * @since 4.3
 */
public class CaffeineCache extends AbstractValueAdaptingCache {

private final String name;

private final com.github.benmanes.caffeine.cache.Cache<Object, Object> cache;

/**
 * Create a {@link CaffeineCache} instance with the specified name and the
 * given internal {@link com.github.benmanes.caffeine.cache.Cache} to use.
 * @param name the name of the cache
 * @param cache the backing Caffeine Cache instance
 */
public CaffeineCache(String name, com.github.benmanes.caffeine.cache.Cache<Object, Object> cache) {
    super(true);
    Assert.notNull(name, "Name must not be null");
    Assert.notNull(cache, "Cache must not be null");
    this.name = name;
    this.cache = cache;
}

/**
 * Create a {@link CaffeineCache} instance with the specified name and the
 * given internal {@link com.github.benmanes.caffeine.cache.Cache} to use.
 * @param name the name of the cache
 * @param cache the backing Caffeine Cache instance
 * @param allowNullValues whether to accept and convert [code null]
 * @values for this cache
 */
public CaffeineCache(String name, com.github.benmanes.caffeine.cache.Cache<Object, Object> cache,
                      boolean allowNullValues) {
    super(true);
    Assert.notNull(name, "Name must not be null");
    Assert.notNull(cache, "Cache must not be null");
    this.name = name;
    this.cache = cache;
}
public final String getName() {
    return this.name;
}

public final com.github.benmanes.caffeine.cache.Cache<Object, Object> getNativeCache() {
    return this.cache;
}

@Nullable
public ValueWrapper get(Object key) {
    if (this.cache instanceof LoadingCache) {
        Object value = ((LoadingCache<Object, Object>) this.cache).get(key);
        return toValueWrapper(value);
    }
    return super.get(key);
}

@SuppressWarnings("unchecked")
public <T> T get(Object key, final Callable<T> valueLoader) {
    return (T) fromStoreValue(this.cache.get(key, new LoadFunction(valueLoader)));
}

protected Object lookup(Object key) {
    return this.cache.getIfPresent(key);
}

public void put(Object key, @Nullable Object value) {
    this.cache.put(key, toStoreValue(value));
}

public ValueWrapper putIfAbsent(Object key, @Nullable final Object value) {
    PutIfAbsentFunction callable = new PutIfAbsentFunction(value);
    Object result = this.cache.get(key, callable);
    return (callable.called ? null : toValueWrapper(result));
}
@Override
public void evict(Object key) {
    this.cache.invalidate(key);
}

@Override
public void clear() {
    this.cache.invalidateAll();
}

private class PutIfAbsentFunction implements Function<Object, Object> {

    @Nullable
    private final Object value;

    private boolean called;

    public PutIfAbsentFunction(@Nullable Object value) {
        this.value = value;
    }

    @Override
    public Object apply(Object key) {
        this.called = true;
        return toStoreValue(this.value);
    }
}

private class LoadFunction implements Function<Object, Object> {

    private final Callable<?> valueLoader;

    public LoadFunction(Callable<?> valueLoader) {
        this.valueLoader = valueLoader;
    }

    @Override
    public Object apply(Object o) {
        try {
            return toStoreValue(valueLoader.call());
        } catch (Exception ex) {
            throw new ValueRetrievalException(o, valueLoader, ex);
        }
    }
}
1.352 jta 1.2

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1.353 protobuf-java 2.4.0a

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1.354 netty-handler-proxy 4.1.8

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1.355 spring-boot-starter-amqp
1.4.7.RELEASE
package org.springframework.jdbc;

import java.sql.SQLException;
import org.springframework.dao.InvalidDataAccessResourceUsageException;

/**
 * Exception thrown when SQL specified is invalid. Such exceptions always have
 * a [@code java.sql.SQLException] root cause.
 *
 * It would be possible to have subclasses for no such table, no such column etc.
 * A custom SQLExceptionTranslator could create such more specific exceptions,
 * without affecting code using this class.
 *
 * @author Rod Johnson
 * @see InvalidResultSetAccessException
 */
@SuppressWarnings("serial")
public class BadSqlGrammarException extends InvalidDataAccessResourceUsageException {

private final String sql;

/**
 * Constructor for BadSqlGrammarException.
 * @param task name of current task
 * @param sql the offending SQL statement
 * @param ex the root cause
 */
/**
 * Return the wrapped SQLException.
 */
public SQLException getSQLException() {
    return (SQLException) getCause();
}

/**
 * Return the SQL that caused the problem.
 */
public String getSql() {
    return this.sql;
}

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1.357 spring-ws-core 2.4.2.RELEASE

1.358 spring-jcl 5.1.6
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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>
 * <p>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>
*
* Configuration of the underlying logging system will generally be done
* external to the Logging APIs, through whatever mechanism is supported by
* that system.
*
* @author Juergen Hoeller (for the \{code spring-jcl\} variant)
* @since 5.0
*/
public interface Log {

/**
 * Is fatal logging currently enabled?
 * <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.
 * @return true if fatal is enabled in the underlying logger.
 */
boolean isFatalEnabled();

/**
 * Is error logging currently enabled?
 * <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.
 * @return true if error is enabled in the underlying logger.
 */
boolean isErrorEnabled();

/**
 * Is warn logging currently enabled?
 * <p>Call this method to prevent having to perform expensive operations
 * (for example, \{code String\}\{code\} concatenation)
 * when the log level is more than warn.
 * @return true if warn is enabled in the underlying logger.
 */
boolean isWarnEnabled();

/**
 * Is info logging currently enabled?
 * <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.
 * @return true if info is enabled in the underlying logger.
 */
boolean isInfoEnabled();

/**
 * Is debug logging currently enabled?
 * Call this method to prevent having to perform expensive operations
 * (for example, String concatenation)
 * when the log level is more than debug.
 * @return true if debug is enabled in the underlying logger.
 */
boolean isDebugEnabled();

/**
 * Is trace logging currently enabled?
 * Call this method to prevent having to perform expensive operations
 * (for example, String concatenation)
 * when the log level is more than trace.
 * @return true if trace is enabled in the underlying logger.
 */
boolean isTraceEnabled();

/**
 * Logs a message with fatal log level.
 * @param message log this message
 */
void fatal(Object message);

/**
 * Logs an error with fatal log level.
 * @param message log this message
 * @param t log this cause
 */
void fatal(Object message, Throwable t);

/**
 * Logs a message with error log level.
 * @param message log this message
 */
void error(Object message);

/**
 * Logs an error with error log level.
 * @param message log this message
 * @param t log this cause
 */
void error(Object message, Throwable t);
/**
 * Logs a message with warn log level.
 * @param message log this message
 */
void warn(Object message);

/**
 * Logs an error with warn log level.
 * @param message log this message
 * @param t log this cause
 */
void warn(Object message, Throwable t);

/**
 * Logs a message with info log level.
 * @param message log this message
 */
void info(Object message);

/**
 * Logs an error with info log level.
 * @param message log this message
 * @param t log this cause
 */
void info(Object message, Throwable t);

/**
 * Logs a message with debug log level.
 * @param message log this message
 */
void debug(Object message);

/**
 * Logs an error with debug log level.
 * @param message log this message
 * @param t log this cause
 */
void debug(Object message, Throwable t);

/**
 * Logs a message with trace log level.
 * @param message log this message
 */
void trace(Object message);

/**
 * Logs an error with trace log level.
 * @param message log this message
 */
* @param t log this cause
*/
void trace(Object message, Throwable t);

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1.366 spring-rabbit 1.6.5

1.367 spring-tx 4.3.13.RELEASE.jar

1.368 spring-data-mongodb 1.10.10

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package org.springframework.data.mongodb;

import org.springframework.dao.DataAccessResourceFailureException;
import org.springframework.data.authentication.UserCredentials;

/**
 * Exception being thrown in case we cannot connect to a MongoDB instance.
 * @author Oliver Gierke
 */
public class CannotGetMongoDbConnectionException extends DataAccessResourceFailureException {

    private final UserCredentials credentials;
    private final String database;
    private static final long serialVersionUID = 1172099106475265589L;

    public CannotGetMongoDbConnectionException(String msg, Throwable cause) {
        super(msg, cause);
        this.database = null;
        this.credentials = UserCredentials.NO_CREDENTIALS;
    }

    public CannotGetMongoDbConnectionException(String msg) {
        this(msg, null, UserCredentials.NO_CREDENTIALS);
    }

    public CannotGetMongoDbConnectionException(String msg, String database, UserCredentials credentials) {
        super(msg);
        this.database = database;
        this.credentials = credentials;
    }

    /**
     * Returns the {@link UserCredentials} that were used when trying to connect to the MongoDB instance.
     *
     * @return
     */
    public UserCredentials getCredentials() {
        return this.credentials;
    }
}

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*/
/**
 * Returns the name of the database trying to be accessed.
 *
 * @return
 */

public String getDatabase() {
    return database;
}

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 */

package org.springframework.web.servlet;

/**
 * Provides additional information about a View such as whether it performs redirects.
 * @author Rossen Stoyanchev
 * @since 3.1
 */
public interface SmartView extends View {

 /**
 * Whether the view performs a redirect.
 */
 boolean isRedirectView();
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package model

import "time"

// A CheckResponse is the internal content of the PublicCheckResponse signed json blob.
type CheckResponse struct {
    Expiration  time.Time `json:"expiration"
    Token       string   `json:"token"
    MaxEngines  int      `json:"maxEngines"
    ScanningEnabled bool   `json:"scanningEnabled"
    Type        string   `json:"licenseType"
    Tier        string   `json:"tier"
}

// IssuedLicense represents an issued license
type IssuedLicense struct {
    KeyID       string   `json:"key_id"
    PrivateKey  string   `json:"private_key"
    Authorization string `json:"authorization"
}
// Valid returns true if the License is syntactically valid, false otherwise
func (l *IssuedLicense) Valid() (bool, string) {
    if l.KeyID == "" {
        return false, "empty key_id"
    }

    if l.PrivateKey == "" {
        return false, "empty private_key"
    }

    if l.Authorization == "" {
        return false, "empty authorization"
    }

    return true, ""
}
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package licensing

import (  
  "context"  
  "crypto/hmac"  
  "crypto/sha256"  
  "encoding/base64"  
  "encoding/json"  
  "fmt"  
  "time"

  "github.com/docker/libtrust"  
  "github.com/docker/licensing/lib/errors"
func (c *client) getLicenseFile(ctx context.Context, subID string) (*model.IssuedLicense, error) {
url := c.baseURI
url.Path += fmt.Sprintf("/api/billing/v4/subscriptions/%s/license-file", subID)

license := new(model.IssuedLicense)
if _, _, err := c.doReq(ctx, "GET", &url, clientlib.RecvJSON(license)); err != nil {
return nil, err
}

return license, nil
}

// Check verifies that the license identified by the given key id is valid. Note that it does not
// interrogate the contents of the license.
func (c *client) check(ctx context.Context, license model.IssuedLicense) (*model.CheckResponse, error) {
keyID := license.KeyID
privateKey := license.PrivateKey
authorization, err := c.getAuthorization(ctx, license)
if err != nil {
return nil, err
}

// TODO: Mason - replace this parseJWS with a non libtrust lib
signature, err := libtrust.ParseJWS(authorization)
if err != nil {
return nil, errors.Wrapf(err, errors.Fields{
"key_id": keyID,
}, "license parse JWS failed")
}

keys, err := signature.Verify()
if err != nil {
return nil, errors.Wrapf(err, errors.Fields{
"key_id": keyID,
}, "license signature verification failed")
}

keyCnt := len(keys)
if keyCnt != 1 {
err = fmt.Errorf("unexpected number of signing keys (%d)", keyCnt)
return nil, errors.WithStack(err).With(errors.Fields{
"key_id": keyID,
})
key := keys[0]

if !c.recognizedSigningKey(key) {
    return nil, errors.New("unrecognized signing key")
}

payload, err := signature.Payload()
if err != nil {
    return nil, errors.Wrap(err, errors.Fields{
        "key_id": keyID,
    }, "malformed signature payload")
}

checkRes := new(model.CheckResponse)
err = json.Unmarshal(payload, &checkRes)
if err != nil {
    return nil, errors.Wrap(err, errors.Fields{
        "key_id": keyID,
    }, "license payload unmarshal failed")
}

msg := checkRes.Expiration.Format(time.RFC3339)
if err := checkToken(msg, checkRes.Token, privateKey); err != nil {
    return nil, errors.Wrap(err, errors.Fields{
        "key_id": keyID,
    })
}

return checkRes, nil

// recognizedSigningKey returns true if the given key is signed with a recognized signing key, false otherwise
func (c *client) recognizedSigningKey(key libtrust.PublicKey) bool {
    for _, publicKey := range c.publicKeys {
        if key.KeyID() == publicKey.KeyID() {
            return true
        }
    }
    return false
}

// getAuthorization returns the decoded license authorization
func (c *client) getAuthorization(ctx context.Context, license model.IssuedLicense) ([]byte, error) {
    decoded, err := base64.StdEncoding.DecodeString(license.Authorization)
    if err != nil {
return nil, errors.Wrap(err, errors.Fields{
    "key_id": license.KeyID,
    }, "decoding license authorization failed")
}
return decoded, nil

// All of the functions in this file assume that they are receiving a properly
// formatted private key.

// checkToken performs a MAC algorithm (where token is generated by hashing the
// message with the privateKey via GenerateToken) with the purpose of authenticating
// the validity of both the message and the private key of the person who generated
// the token.
func checkToken(message, token, privateKey string) error {
    tokenBytes, err := base64.URLEncoding.DecodeString(token)
    if err != nil {
        return errors.Wrap(err, errors.Fields{"token": token})
    }
    generatedToken, err := generateToken(message, privateKey)
    if err != nil {
        return errors.Wrap(err, errors.Fields{"token": token})
    }
    generatedBytes, err := base64.URLEncoding.DecodeString(generatedToken)
    if err != nil {
        return errors.Wrap(err, errors.Fields{"token": token})
    }
    if !hmac.Equal(tokenBytes, generatedBytes) {
        return errors.Forbidden(errors.Fields{"token": token}, "invalid token")
    }
    return nil
}

// generateToken generates a hash of the message with the privateKey via the
// sha256 algorithm.
func generateToken(message, privateKey string) (string, error) {
    key, err := base64.URLEncoding.DecodeString(privateKey)
    if err != nil {
        return "", errors.Wrap(err, errors.Fields{"msg": message})
    }
    h := hmac.New(sha256.New, key)
    h.Write([]byte(message))
    return base64.URLEncoding.EncodeToString(h.Sum(nil)), nil
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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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package formatter

import (  
"bytes"  
"encoding/json"  
"strings"  
"testing"  
"time"

"github.com/docker/cli/internal/licenseutils"  
"github.com/docker/licensing/model"  
"gotest.tools/assert"  
is "gotest.tools/assert/cmp"
)
func TestSubscriptionContextWrite(t *testing.T) {
cases := []struct {
  context  Context
  expected string
} {
  // Errors
  {
    Context[Format: "{{InvalidFunction}}"],
    `Template parsing error: template: :1: function "InvalidFunction" not defined`
  },
  {
    Context[Format: "{{nil}}"],
    `Template parsing error: template: :1:2: executing "" at <nil>: nil is not a command`
  },
  // Table format
  {
    Context[Format: NewSubscriptionsFormat("table", false)],
    `NUM                 OWNER               PRODUCT ID          EXPIRES                         PRICING COMPONENTS
1                   owner1              productid1          2020-01-01 10:00:00 +0000 UTC   compstring
2                   owner2              productid2          2020-01-01 10:00:00 +0000 UTC   compstring`
  },
  {
    Context[Format: NewSubscriptionsFormat("table", true)],
    `1:License Name: name1Quantity: 10 nodesExpiration date: 2020-01-01
2:License Name: name2Quantity: 20 nodesExpiration date: 2020-01-01`
  },
  {
    Context[Format: NewSubscriptionsFormat("table {{.Owner}}", false)],
    `OWNER
owner1
owner2`
  },
  {
    Context[Format: NewSubscriptionsFormat("table {{.Owner}}", true)],
    `OWNER
owner1
owner2`
  },
  // Raw Format
  {
    Context[Format: NewSubscriptionsFormat("raw", false)],
    `license: id1`
name: name1
owner: owner1
components: compstring

license: id2
name: name2
owner: owner2
components: compstring

expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")

for _, testcase := range cases {
    subscriptions := []licenseutils.LicenseDisplay{
        {
            Num: 1,
            Owner: "owner1",
            Subscription: model.Subscription{
                ID: "id1",
                Name: "name1",
                ProductID: "productid1",
                Expires: &expiration,
                PricingComponents: model.PricingComponents{
                    &model.SubscriptionPricingComponent{
                        Name: "nodes",
                        Value: 10,
                    },
                },
            }
        },
        {
            ComponentsString: "compstring",
        },
    }
}
Num: 2,
Owner: "owner2",
Subscription: model.Subscription{
  ID: "id2",
  Name: "name2",
  ProductID: "productid2",
  Expires: &expiration,
  PricingComponents: model.PricingComponents{
    &model.SubscriptionPricingComponent{
      Name: "nodes",
      Value: 20,
    },
  },
  ComponentsString: "compstring",
},
out := &bytes.Buffer{}
testcase.context.Output = out
err := SubscriptionsWrite(testcase.context, subscriptions)
if err != nil {
  assert.Error(t, err, testcase.expected)
} else {
  assert.Check(t, is.Equal(testcase.expected, out.String()))
}

func TestSubscriptionContextWriteJSON(t *testing.T) {
  expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")
  subscriptions := []licenseutils.LicenseDisplay{
    {Num: 1,
      Owner: "owner1",
      Subscription: model.Subscription{
        ID: "id1",
        Name: "name1",
        ProductID: "productid1",
        Expires: &expiration,
        PricingComponents: model.PricingComponents{
          &model.SubscriptionPricingComponent{
            Name: "nodes",
            Value: 10,
          },
        },
        ComponentsString: "compstring",
      },
    },
  }
}
{  
Num: 2,
Owner: "owner2",
Subscription: model.Subscription{
  ID: "id2",
  Name: "name2",
  ProductID: "productid2",
  Expires: &expiration,
  PricingComponents: model.PricingComponents{
&model.SubscriptionPricingComponent{
    Name: "nodes",
    Value: 20,
  },
  },
  ComponentsString: "compstring",
},
}

expectedJSONs := []map[string]interface{}{
{  
"Owner": "owner1",
"ComponentsString": "compstring",
"Expires": "2020-01-01T10:00:00Z",
"DockerID": "",
"Eusa": nil,
"ID": "id1",
"Start": nil,
"Name": "name1",
"Num": float64(1),
"PricingComponents": []interface{}{
map[string]interface{}{
  "name": "nodes",
  "value": float64(10),
},
},
"ProductID": "productid1",
"ProductRatePlan": "",
"ProductRatePlanID": "",
"State": "",
"Summary": "License Name: name1\tQuantity: 10 nodes\tExpiration date: 2020-01-01",
},
}
{  
"Owner": "owner2",
"ComponentsString": "compstring",
"Expires": "2020-01-01T10:00:00Z",
"DockerID": "",
"Eusa": nil,
"ID": "id2",
}
"Start":
nil,
"Name":
"name2",
"Num":
float64(2),
"PricingComponents": []interface{}{
map[string]interface{}{
"name": "nodes",
"value": float64(20),
},
},
"ProductID":
"productid2",
"ProductRatePlan": "",
"ProductRatePlanID": "",
"State":
"",
"Summary":
"License Name: name2\tQuantity: 20 nodes\tExpiration date: 2020-01-01",
},
}
out := &bytes.Buffer{}
err := SubscriptionsWrite(Context{Format: "{{json .}}", Output: out}, subscriptions)
if err != nil {
t.Fatal(err)
}
for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
var m map[string]interface{}
if err := json.Unmarshal([]byte(line), &m); err != nil {
t.Fatal(err)
}
assert.Check(t, is.DeepEqual(expectedJSONs[i], m))
}
}
func TestSubscriptionContextWriteJSONField(t *testing.T) {
subscriptions := []licenseutils.LicenseDisplay{
{Num: 1, Owner: "owner1"},
{Num: 2, Owner: "owner2"},
}
out := &bytes.Buffer{}
err := SubscriptionsWrite(Context{Format: "{{json .Owner}}", Output: out}, subscriptions)
if err != nil {
t.Fatal(err)
}
for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
var s string
if err := json.Unmarshal([]byte(line), &s); err != nil {
t.Fatal(err)
}
assert.Check(t, is.Equal(subscriptions[i].Owner, s))
}

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return `license: {{.ID}}`
}
return `license: {{.ID}}
name: {{.Name}}
owner: {{.Owner}}
components: {{.ComponentsString}}
`}
return Format(source)

// SubscriptionsWrite writes the context
func SubscriptionsWrite(ctx Context, subs []licenseutils.LicenseDisplay) error {
    render := func(format func(subContext subContext) error) error {
        for _, sub := range subs {
            licenseCtx := &licenseContext{trunc: ctx.Trunc, l: sub}
            if err := format(licenseCtx); err != nil {
                return err
            }
        }
        return nil
    }
    licenseCtx := licenseContext{}
    licenseCtx.header = map[string]string{
        "Num":               numHeader,
        "Owner":             ownerHeader,
        "Name":              licenseNameHeader,
        "ID":                idHeader,
        "DockerID":          dockerIDHeader,
        "ProductID":         productIDHeader,
        "ProductRatePlan":   productRatePlanHeader,
        "ProductRatePlanID": productRatePlanIDHeader,
        "Start":             startHeader,
        "Expires":           expiresHeader,
        "State":             stateHeader,
        "Eusa":              eusaHeader,
        "ComponentsString":  pricingComponentsHeader,
    }
    return ctx.Write(&licenseCtx, render)
}

type licenseContext struct {
    HeaderContext
    trunc bool
    l     licenseutils.LicenseDisplay
}

func (c *licenseContext) MarshalJSON() ([]byte, error) {
    return marshalJSON(c)
}

func (c *licenseContext) Num() int {
func (c *licenseContext) Owner() string {
    return c.l.Owner
}

func (c *licenseContext) ComponentsString() string {
    return c.l.ComponentsString
}

func (c *licenseContext) Summary() string {
    return c.l.String()
}

func (c *licenseContext) Name() string {
    return c.l.Name
}

func (c *licenseContext) ID() string {
    return c.l.ID
}

func (c *licenseContext) DockerID() string {
    return c.l.DockerID
}

func (c *licenseContext) ProductID() string {
    return c.l.ProductID
}

func (c *licenseContext) ProductRatePlan() string {
    return c.l.ProductRatePlan
}

func (c *licenseContext) ProductRatePlanID() string {
    return c.l.ProductRatePlanID
}

func (c *licenseContext) Start() *time.Time {
    return c.l.Start
}

func (c *licenseContext) Expires() *time.Time {
    return c.l.Expires
}

func (c *licenseContext) State() string {
func (c *licenseContext) Eusa() *model.EusaState {
    return c.l.Eusa
}

func (c *licenseContext) PricingComponents() []model.SubscriptionPricingComponent {
    // Dereference the pricing component pointers in the pricing components
    // so it can be rendered properly with the template formatter

    var ret []model.SubscriptionPricingComponent
    for _, spc := range c.l.PricingComponents {
        if spc == nil {
            continue
        }
        ret = append(ret, *spc)
    }
    return ret
}

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Gocheck - A rich testing framework for Go

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

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import org.aopalliance.aop.Advice;

/**
 * Base interface holding AOP <b>advice</b> (action to take at a joinpoint)
 * and a filter determining the applicability of the advice (such as
 * a pointcut). <i>This interface is not for use by Spring users, but to
 * allow for commonality in support for different types of advice.</i>
 *
 * <p>Spring AOP is based around <b>around advice</b> delivered via method
 * <b>interception</b>, compliant with the AOP Alliance interception API.
 * The Advisor interface allows support for different types of advice,
 * such as <b>before</b> and <b>after</b> advice, which need not be
 * implemented using interception.
 *
 * @author Rod Johnson
 */

public interface Advisor {

/**
 * Return the advice part of this aspect. An advice may be an
 * interceptor, a before advice, a throws advice, etc.
 * @return the advice that should apply if the pointcut matches
* @see org.aopalliance.intercept.MethodInterceptor
* @see BeforeAdvice
* @see ThrowsAdvice
* @see AfterReturningAdvice
*/
Advice getAdvice();

/**
 * Return whether this advice is associated with a particular instance
 * (for example, creating a mixin) or shared with all instances of
 * the advised class obtained from the same Spring bean factory.
 * <p><b>Note that this method is not currently used by the framework.</b>
 * Typical Advisor implementations always return {@code true}.
 * Use singleton/prototype bean definitions or appropriate programmatic
 * proxy creation to ensure that Advisors have the correct lifecycle model.
 * @return whether this advice is associated with a particular target instance
 */
boolean isPerInstance();

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1.382 spring-aspects 4.3.23

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1.383 spring-security-web 3.1.2.RELEASE

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import com.fasterxml.jackson.annotation.*;
import org.springframework.security.core.GrantedAuthority;
import java.util.Collection;

/**
 * This is a Jackson mixin class helps in serialize/deserialize
 * [org.springframework.security.authentication.AnonymousAuthenticationToken] class. To use this class
 * you need to register it
 * with [com.fasterxml.jackson.databind.ObjectMapper] and [SimpleGrantedAuthorityMixin] because
 * AnonymousAuthenticationToken contains SimpleGrantedAuthority.
 *<pre>
 * ObjectMapper mapper = new ObjectMapper();
 * mapper.registerModule(new CoreJackson2Module());
 *</pre>
*/
/*
 * Note: This class will save full class name into a property called @class
 *
 * @author Jitendra Singh
 * @see CoreJackson2Module
 * @see SecurityJackson2Modules
 * @since 4.2
 */

@JsonTypeInfo(use = JsonTypeInfo.Id.CLASS, include = JsonTypeInfo.As.PROPERTY)
@JsonAutoDetect(fieldVisibility = JsonAutoDetect.Visibility.ANY, isGetterVisibility =
JsonAutoDetect.Visibility.NONE,
@JsonIgnoreProperties(ignoreUnknown = true)
class AnonymousAuthenticationTokenMixin {

/**
 * Constructor used by Jackson to create object of {@link
 * org.springframework.security.authentication.AnonymousAuthenticationToken}.
 * @param keyHash hashCode of key provided at the time of token creation by using
 * @param principal the principal (typically a <code>UserDetails</code>)
 * @param authorities the authorities granted to the principal
 */
@JsonCreator
public AnonymousAuthenticationTokenMixin(@JsonProperty("keyHash") Integer keyHash,
@JsonProperty("principal") Object principal,
@JsonProperty("authorities") Collection<? extends GrantedAuthority> authorities) {
}
}

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1.387 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;
}

/* ----------------------------------------------- */
public E remove()
{
    synchronized (_lock)
    {
        if (_size == 0)
            throw new NoSuchElementException();
        return dequeue();
    }
}

/* ----------------------------- */
@Override
public void clear()
{
    synchronized (_lock)
    {
        _size = 0;
        _nextE = 0;
        _nextSlot = 0;
    }
}

/* ----------------------------- */
@Override
public boolean isEmpty()
{
    synchronized (_lock)
    {
        return _size == 0;
    }
}

/* ----------------------------- */
@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                         _elements.length
            // _nextE........._nextSlot
            System.arraycopy(_elements, i + 1, _elements, i, _nextSlot - i);
            _nextSlot--;
            _size--;
        }
        else
        {
            // 0                         _elements.length
            // ......_nextSlot   _nextE........
            System.arraycopy(_elements, i + 1, _elements, i, _elements.length - i - 1);
            if (_nextSlot > 0)
            {
                _elements[_elements.length - 1] = _elements[0];
            }
        }
    }
    return old;
}
System.arraycopy(_elements, 1, _elements, 0, _nextSlot - 1);

else

    _nextSlot = _elements.length - 1;

    _size--;
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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1.389 spring-boot 1.4.7.RELEASE

1.390 spring-beans 4.3.13.RELEASE

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1.392 six 1.11.0

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package org.springframework.messaging;

/**
 * A generic message representation with headers and body.
 *
 * @author Mark Fisher
 * @author Arjen Poutsma
 * @since 4.0
 * @see org.springframework.messaging.support.MessageBuilder
 */
public interface Message<T> {

/**
 * Return the message payload.
 */
T getPayload();

/**
 * Return message headers for the message (never null but may be empty).
 */
MessageHeaders getHeaders();

}

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Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

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.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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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.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"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.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

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.

3. You may opt to apply the terms of the ordinary GNU General Public
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this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
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that version instead if you wish.) Do not make any other change in
these notices.

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 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.

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) 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.

c) 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.

d) 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 source code 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:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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<h2 id="section-1">1. Definitions.</h2>

1.0.1. "Commercial Use"
means distribution or otherwise making the Covered Code available to a third party.

1.1. "Contributor"
means each entity that creates or contributes to the creation of Modifications.

1.2. "Contributor Version"
means the combination of the Original Code, prior Modifications used by a Contributor, and the Modifications made by that particular Contributor.

1.3. "Covered Code"
means the Original Code or Modifications or the combination of the Original Code and Modifications, in each case including portions thereof.

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

1.5. "Executable"
means Covered Code in any form other than Source Code.

1.6. "Initial Developer"
means the individual or entity identified as the Initial Developer in the Source Code notice required by Exhibit A.

1.7. "Larger Work"
means a work which combines Covered Code or portions thereof with code not governed by the terms of this License.

1.8. "License"
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means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently acquired, any and all of the rights conveyed herein.

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1.9.a. Any addition to or deletion from the contents of a file containing Original Code or previous Modifications.
1.9.b. Any new file that contains any part of the Original Code or previous Modifications.

1.10. "Original Code"
means Source Code of computer software code which is described in the Source Code notice required by Exhibit A as Original Code, and which, at the time of its release under this License is not already Covered Code governed by this License.

1.10.1. "Patent Claims"
means any patent claim(s), now owned or hereafter acquired, including without limitation, method, process, and apparatus claims, in any patent Licensable by grantor.

1.11. "Source Code"
means the preferred form of the Covered Code for making modifications to it, including all modules it contains, plus any associated interface definition files, scripts used to control compilation and installation of an Executable, or source code differential comparisons against either the Original Code or another well known, available Covered Code of the Contributor's choice. The Source Code can be in a compressed or archival form, provided the appropriate decompression or de-archiving software is widely available for no charge.

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</ol>

<h2 id="section-3">3. Distribution Obligations.</h2>

<h3 id="section-3.1">3.1. Application of License.</h3>

<p>The Modifications which You create or to which You contribute are governed by the terms of this License, including without limitation Section <a href="#section-2.2">2.2</a>. The Source Code version of Covered Code may be distributed only under the terms of this License or a future version of this License released under Section <a href="#section-6.1">6.1</a>, and You must include a copy of this License with every copy of the Source Code You distribute. You may not offer or impose any terms on any Source Code version that alters or restricts the applicable version of this License or the recipients' rights hereunder. However, You may include an additional document offering the additional rights described in Section <a href="#section-3.5">3.5</a>.</p>

<h3 id="section-3.2">3.2. Availability of Source Code.</h3>

<p>Any Modification which You create or to which You contribute must be made available in Source Code form under the terms of this License either on the same media as an Executable version or via an accepted Electronic Distribution Mechanism to anyone to whom you made an Executable version available; and if made available via Electronic Distribution Mechanism, must remain available for at least twelve (12) months after the date it initially became available, or at least six (6) months after a subsequent version of that particular Modification has been made available to such recipients. You are responsible for ensuring that the Source Code version remains available even if the Electronic Distribution Mechanism is maintained by a third party.
</p>

<h3 id="section-3.3">3.3. Description of Modifications.</h3>

<p>You must cause all Covered Code to which You contribute to contain a file documenting the changes You made to create that Covered Code and the date of any change. You must include a prominent statement that the Modification is derived, directly or indirectly, from Original Code provided by the Initial Developer and including the name of the Initial Developer in (a) the Source Code, and (b) in any notice in an Executable version or related documentation in which You describe the origin or ownership of the Covered Code.
</p>

<h3 id="section-3.4">3.4. Intellectual Property Matters</h3>

<h4 id="section-3.4-a">(a) Third Party Claims</h4>

<p>If Contributor has knowledge that a license under a third party's intellectual property
rights is required to exercise the rights granted by such Contributor under Sections
<a href="#section-2.1">2.1</a> or <a href="#section-2.2">2.2</a>, Contributor must include a
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party making the claim in sufficient detail that a recipient will know whom to contact. If
Contributor obtains such knowledge after the Modification is made available as described in
Section <a href="#section-3.2">3.2</a>, Contributor shall promptly modify the LEGAL file in
all copies Contributor makes available thereafter and shall take other steps (such as
notifying appropriate mailing lists or newsgroups) reasonably calculated to inform those who
received the Covered Code that new knowledge has been obtained.

<h4 id="section-3.4-b">(b) Contributor APIs</h4>
<p>If Contributor's Modifications include an application programming interface and Contributor
has knowledge of patent licenses which are reasonably necessary to implement that
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<strong class="very-strong">legal</strong> file.</p>

<h4 id="section-3.4-c">(c) Representations.</h4>
<p>Contributor represents that, except as disclosed pursuant to Section 3.4
(<a href="#section-3.4-a">a</a>) above, Contributor believes that Contributor's Modifications
are Contributor's original creation(s) and/or Contributor has sufficient rights to grant the
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<h3 id="section-3.5">3.5. Required Notices.</h3>
<p>You must duplicate the notice in <a href="#exhibit-a">Exhibit A</a> in each file of the
Source Code. If it is not possible to put such notice in a particular Source Code file due to
its structure, then You must include such notice in a location (such as a relevant directory)
where a user would be likely to look for such a notice. If You created one or more
Modification(s) You may add your name as a Contributor to the notice described in
<a href="#exhibit-a">Exhibit A</a>. You must also duplicate this License in any documentation
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as a result of warranty, support, indemnity or liability terms You offer.</p>

<h3 id="section-3.6">3.6. Distribution of Executable Versions.</h3>
<p>You may distribute Covered Code in Executable form only if the requirements of Sections
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<a href="#section-3.3">3.3</a>, <a href="#section-3.4">3.4</a> and
<a href="#section-3.5">3.5</a> have been met for that Covered Code, and if You include a
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5. Application of this License.

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<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en">
<head>
<meta http-equiv="Content-Type" content="text/html;charset=utf-8" />
<title>EasyMock License</title>
<link rel="stylesheet" href="easymock.css" /> 
</head>

<body><div class="bodywidth">

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

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

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*/

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1.407 jaxb-impl 2.2.6
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Additionally, some files within PyCrypto had specified their own licenses that differed from the PyCrypto license itself. For example, the original RIPEMD.c module simply had a copyright statement and warranty disclaimer, without clearly specifying any license terms. (An updated version on the author's website came with a license that contained a GPL-incompatible advertising clause.)

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2. Replacing some modules with clearly-licensed code from other sources (e.g. the DES and DES3 modules were replaced with new ones based on Tom St. Denis's public-domain LibTomCrypt library.)

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4. Removing some modules altogether without replacing them.

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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/cla/
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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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Last updated: 2009-02-28

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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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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.

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1.424 activation 1.1 1

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1.425 activiti-simple-workflow 5.22.0

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1.426 hadoop 1.2.0

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/**
 * Runtime wrapper for an authentication exception.
 *
 * @author Gary Russell
 * @since 1.2.1
 * /
 *
 @SuppressWarnings("serial")
 public class AmqpAuthenticationException extends AmqpException {
     
 public AmqpAuthenticationException(Throwable cause) {
 super(cause);
 }
 }

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<!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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 */

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;
}

} /*
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 */

generate from source
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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;

    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;
    }
}
protected DriversLicense() {
}

public DriversLicense(String serialNumber) {
    this.serial_number = serialNumber;
}

public String getSerialNumber() {
    return serial_number;
}


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1.441 kodando-history 4.6.3

1.442 spring-transaction 3.1.2.RELEASE

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1.443 hibernate-core 5.0.12.Final

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1.445 paranamer 2.5.6

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1.446 spring-boot-starter-data-mongodb
1.4.7.RELEASE
1.447 html-parser 1.2.1

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 */

package nu.validator.htmlparser.annotation;

/**
 * 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.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(this);
}
@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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 */

package nu.validator.htmlparser.rewindable;
public interface Rewindable {
    void willNotRewind();

    void rewind();

    boolean canRewind();
}

1.448 aspectjrt 1.8.10

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1.453 postgresql-server 9.5.19

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Chapter 31. libpq - C Library

### 31.12. Notice Processing

Notice and warning messages generated by the server are not returned by the query execution functions, since they do not imply failure of the query. Instead they are passed to a notice handling function, and execution continues normally after the handler returns. The default notice handling function prints the message on `stderr`, but the application can override this behavior by supplying its own handling function.

For historical reasons, there are two levels of notice handling, called the notice receiver and notice processor. The default behavior is for...
the notice receiver to format the notice and pass a string to the notice processor for printing. However, an application that chooses to provide its own notice receiver will typically ignore the notice processor layer and just do all the work in the notice receiver.

The function \texttt{PQsetNoticeReceiver} sets or examines the current notice receiver for a connection object. Similarly, \texttt{PQsetNoticeProcessor} sets or examines the current notice processor.

\begin{verbatim}
typedef void (*PQnoticeReceiver) (void *arg, const PGresult *res);

PQnoticeReceiver
PQsetNoticeReceiver(PGconn *conn, PQnoticeReceiver proc, void *arg);

typedef void (*PQnoticeProcessor) (void *arg, const char *message);

PQnoticeProcessor
PQsetNoticeProcessor(PGconn *conn, PQnoticeProcessor proc, void *arg);
\end{verbatim}

Each of these functions returns the previous notice receiver or processor function pointer, and sets the new value. If you supply a null function pointer, no action is taken, but the current pointer is returned.

When a notice or warning message is received from the server, or generated internally by \texttt{libpq
The notice receiver function is called. It is passed the message in the form of a `<TT CLASS="SYMBOL">PGRES_NONFATAL_ERROR</TT>`

> <TT CLASS="STRUCTNAME">PGresult</TT>

> (This allows the receiver to extract individual fields using `<CODE CLASS="FUNCTION">PQresultErrorField</CODE>`, or the complete preformatted message using `<CODE CLASS="FUNCTION">PQresultErrorMessage</CODE>`.`

The same void pointer passed to `<CODE CLASS="FUNCTION">PQsetNoticeReceiver</CODE>` is also passed. (This pointer can be used to access application-specific state if needed.)

The default notice receiver simply extracts the message (using `<CODE CLASS="FUNCTION">PQresultErrorMessage</CODE>`) and passes it to the notice processor.

The notice processor is responsible for handling a notice or warning message given in text form. It is passed the string text of the message (including a trailing newline), plus a void pointer that is the same one passed to `<CODE CLASS="FUNCTION">PQsetNoticeProcessor</CODE>`.

The default notice processor is simply:

```c
static void
```


defaultNoticeProcessor(void *arg, const char *message)
{
    fprintf(stderr, "%s", message);
} /*</PRE
></P
></P
>

Once you have set a notice receiver or processor, you should expect that that function could be called as long as either the

<TT
CLASS="STRUCTNAME"
>PGconn</TT
>
> object or <TT
CLASS="STRUCTNAME"
>PGresult</TT
> objects made from it exist. At creation of a <TT
CLASS="STRUCTNAME"
>PGresult</TT
>, the <TT
CLASS="STRUCTNAME"
>PGconn</TT
>’s current notice handling pointers are copied into the <TT
CLASS="STRUCTNAME"
>PGresult</TT
> for possible use by functions like <CODE
CLASS="FUNCTION"
>PQgetvalue</CODE
>.

</P
></DIV
><DIV
CLASS="NAVFOOTER"
><HR
ALIGN="LEFT"
WIDTH="100%"><TABLE
SUMMARY="Footer navigation table"
WIDTH="100%"
BORDER="0"
CELLPADDING="0"
CELLSPACING="0"
><TR
><TD
WIDTH="33%"
<table>
<thead>
<tr>
<th>Miscellaneous Functions</th>
<th>Up</th>
<th>Event System</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
diff -c -r bsd_indent/Makefile pg_bsd_indent/Makefile
*** bsd_indent/MakefileWed Oct 26 17:13:34 2011
--- pg_bsd_indent/MakefileWed Oct 12 12:17:12 2011
***************
*** 2,10 ****
# Makefile
#
#
! TARGET = indent
XFLAGS = -Wall -D__RCSID="static char *rcsid=" -D__COPYRIGHT="static char *copyright="
! CFLAGS = -g
LIBS =

$(TARGET) : args.o indent.o io.o lexi.o parse.o pr_comment.o
--- 2,10 ----
# Makefile
#
#
! TARGET = pg_bsd_indent
XFLAGS = -Wall -D__RCSID="static char *rcsid=" -D__COPYRIGHT="static char *copyright="
! CFLAGS = -O
LIBS =

$(TARGET) : args.o indent.o io.o lexi.o parse.o pr_comment.o
***************
*** 31,37 ****
clean:
rm -f *.o $(TARGET) log core

! install:
! make clean
! make CFLAGS=-O
install -s -o bin -g bin $(TARGET) /usr/local/bin
--- 31,35 ----
clean:
rm -f *.o $(TARGET) log core

! install: $(TARGET)
install -s -o bin -g bin $(TARGET) /usr/local/bin
diff -c -r bsd_indent/README pg_bsd_indent/README
*** bsd_indent/READMEWed Oct 26 17:13:34 2011
--- pg_bsd_indent/READMEMon Nov 14 19:30:24 2005
***************
*** 1,3 ****
--- 1,13 ----
This patch is from NetBSD current, 2005-11-14. It contains all the patches need for its use in PostgreSQL.

This is the C indenter, it originally came from the University of Illinois via some distribution tape for PDP-11 Unix. It has subsequently been hacked upon by James Gosling @ CMU. It isn't very pretty, and really needs:

diff -c -r bsd_indent/args.c pg_bsd_indent/args.c
*** bsd_indent/args.c	Wed Oct 26 17:13:34 2011
--- pg_bsd_indent/args.c	Wed Oct 26 17:16:56 2011
***************
*** 83,88 ****
--- 83,90 ----
#include <string.h>
#include "indent_globs.h"

+ #define INDENT_PG_VERSION"1.1"

+ /* profile types */
#define PRO_SPECIAL	1	/* special case */
#define PRO_BOOL	2	/* boolean */

***************
*** 99,106 ****
--- 101,113 ----
#defineSTDIN	3	/* use stdin */
#defineKEY	4	/* type (keyword) */

+ #defineKEY_FILE	5	/* only used for args */
+ #define VERSION6	/* only used for args */

+ char   *option_source = "?";

+ void add_typedefs_from_file(char *str);

+ /*
 * N.B.: because of the way the table here is scanned, options whose names are
 * substrings of other options must occur later; that is, with -lp vs -l, -lp

 ***************
*** 118,123 ****
--- 125,136 ----
"T", PRO_SPECIAL, 0, KEY, 0
}".
{
   + "U", PRO_SPECIAL, 0, KEY_FILE, 0
   + },
   + {
   + "V", PRO_SPECIAL, 0, VERSION, 0
   + },
   + {
   + "bacc", PRO_BOOL, false, ON, &blanklines_around_conditional_compilation
   },
   }

***************
*** 425,430 ****
--- 438,456 ----
break;

+ case KEY_FILE:
+ if (*param_start == 0)
+ goto need_param;
+ add_typedefs_from_file(param_start);
+ break;
+
+ case VERSION:
+ {
+ printf("pg_bsd_indent %s\n", INDENT_PG_VERSION);
+ exit(0);
+ }
+ break;
+
default:
   fprintf(stderr, "indent: set_option: internal error: p_special %d\n", p->p_special);
***************
*** 459,461 ****
--- 485,508 ----
exit(1);
}
}
+
+ void
+ add_typedefs_from_file(char *str)
+ {
+ FILE *file;
+ char line[BUFSIZ];
+ + if ((file = fopen(param_start, "r")) == NULL)
+ {
+ fprintf(stderr, "indent: cannot open file %s\n", str);
+ exit(1);
+ }
+ while ((fgets(line, BUFSIZ, file)) != NULL)
+ {
+ /* Remove trailing whitespace */
+ *(line + strcspn(line, " \
\r")) = '0';
+ addkey(strdup(line), 4);
+ }
+ fclose(file);
+ }

Only in pg_bsd_indent: args.o
Only in pg_bsd_indent: indent.bsd.patch
Only in pg_bsd_indent: indent.o
diff -c -r bsd_indent/indent_globs.h pg_bsd_indent/indent_globs.h
*** bsd_indent/indent_globs.h	Wed Oct 26 17:13:34 2011
--- pg_bsd_indent/indent_globs.h	Mon Nov 14 19:30:24 2005
***************
*** 239,245 ****
  scomf,/* Same line comment font */
  bodyf,/* major body font */

! #define STACK_SIZE 150

EXTERN struct parser_state {
  int last_token;
--- 239,249 ----
  scomf,/* Same line comment font */
  bodyf,/* major body font */

! /*
! * This controls the maximum number of 'else if' clauses supported.
! * If it is exceeded, comments are placed in column 100.
! */
! #define STACK_SIZE 1000

EXTERN struct parser_state {
  int last_token;
Only in pg_bsd_indent: io.o
diff -c -r bsd_indent/lexi.c pg_bsd_indent/lexi.c
*** bsd_indent/lexi.c Wed Oct 26 17:13:34 2011
--- pg_bsd_indent/lexi.c Mon Nov 14 19:30:24 2005
***************
*** 93,99 ****
  int rwcode;
};

! struct templ specials[1000] =

```c
int     rwcode;
};

struct templ specials[16384] =
{
    {"switch", 1},
    {"case", 2},

    else
    p++;
    if (p >= specials + sizeof specials / sizeof specials[0])
        return; /* For now, table overflows are silently ignored */
    p->rwd = key;
    p->rwcode = val;
    p[1].rwd = 0;
}

else
    p++;
    if (p >= specials + sizeof specials / sizeof specials[0])
        {fprintf(stderr, "indent: typedef table overflow\n");
            exit(1);
        }
    p->rwd = key;
    p->rwcode = val;
    p[1].rwd = 0;

Only in pg_bsd_indent: lexi.o
diff -c -r bsd_indent/parse.c pg_bsd_indent/parse.c
--- bsd_indent/parse.c    Wed Oct 26 17:13:34 2011
--- pg_bsd_indent/parse.c   Mon Nov 14 19:30:24 2005

+ if (ps.tos >= STACK_SIZE) {
+     fprintf(stderr, "indent: stack size overflow\n");
+     exit(1);
+ }  
```
reduce();/* see if any reduction can be done */

#ifdef debug
Only in pg_bsd_indent: parse.o
diff -c -r bsd_indent/pr_comment.c pg_bsd_indent/pr_comment.c
*** bsd_indent/pr_comment.c Wed Oct 26 17:13:34 2011
--- pg_bsd_indent/pr_comment.c Mon Nov 14 19:30:24 2005
**************
*** 148,154 ****
ps.box_com = true;
ps.com_col = 1;
} else {
! if (*buf_ptr == '-' || *buf_ptr == '*' || *buf_ptr == \n') {
ps.box_com = true;/* a comment with a '-', '*'
* or newline immediately
* after the start comment is
--- 148,158 ----
ps.box_com = true;
ps.com_col = 1;
} else {
! /*
! * Don't process \n' or every comment is treated as a
! * block comment, meaning there is no wrapping.
! */
! if (*buf_ptr == '-' || *buf_ptr == '*) {
ps.box_com = true;/* a comment with a '-', '*'
* or newline immediately
* after the start comment is
**************
*** 328,333 ****
--- 332,350 ----
goto end_of_comment;
}
} while (*buf_ptr == ' ' || *buf_ptr == \n');
+
+ /*
+ * If there is a blank comment line, we need to prefix
+ * the line with the same three spaces that "/* " takes up.
+ * Without this code, blank stared lines in comments have
+ * three too-many characters on the line when wrapped.
+ */
+ if (s_com == e_com) {
+ *e_com++ = ' ';/* add blanks for continuation */
+ *e_com++ = ' ';
+ *e_com++ = ' ';
+ now_col += 3;
+ }
} else

if (++buf_ptr >= buf_end)
    fill_buffer();
Only in pg_bsd_indent: pr_comment.o
PostgreSQL Database Management System
(formerly known as Postgres, then as Postgres95)

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Written by: Philip Hazel
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//
//////////////////////////////////////////////////////////////////////////////

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#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
#  include <boost/config.hpp>
#endif
#
#if defined(BOOST_HAS_PRAGMA_ONCE)
#  pragma once
#endif

#include <cstddef>

namespace boost {
  namespace interprocess {
    namespace ipcdetail {

      template <class T, T val>
struct integral_constant
{
    static const T value = val;
    typedef integral_constant<T, val> type;
};

template< bool C_ >
struct bool_ : integral_constant<bool, C_>
{
    static const bool value = C_;
};

typedef bool_<true> true_;
typedef bool_<false> false_;

typedef true_ true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type
{
    char padding[8];
};

template <bool B, class T = void>
struct enable_if_c
{
    typedef T type;
};
template <class T>
struct enable_if_c<false, T> {};

template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {};

template <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]; };
    static true_t dispatch(U);
    static false_t dispatch(...);
    static T trigger();
    public:
    static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
template<
    bool C
    , typename T1
    , typename T2
>
struct if_c
{
    typedef T1 type;
};

template<
    typename T1
    , typename T2
>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
    typename T1
    , typename T2
    , typename T3
>
struct if_<
{
    typedef typename if_c<0 != T1::value, T2, T3>::type type;
};

template <class Pair>
struct select1st
//   : public std::unary_function<Pair, typename Pair::first_type>
{
    template<class OtherPair>
    const typename Pair::first_type& operator()(const OtherPair& x) const
    {  return x.first;  }

    const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
    {  return x;  }
};

// identity is an extension: it is not part of the standard.
template <class T>
struct identity
//   : public std::unary_function<T,T>
typedef T type;
const T& operator()(const T& x) const
{ return x; }
}

template<std::size_t S>
struct ls_zeros
{
  static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<>
struct ls_zeros<0>
{
  static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
  static const std::size_t value = 0;
};

}  //namespace ipcdetail{
}  //namespace interprocess{
}  //namespace boost{

#endif  //#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP

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//
////////////////////////////////////////////////////////////////////////////

#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
#  include <boost/config.hpp>
#endif

#if defined(BOOST_HAS_PRAGMA_ONCE)
#  pragma once
#endif

#include <boost/container/detail/config_begin.hpp>
#include <boost/container/detail/workaround.hpp>
#include <boost/move/detail/type_traits.hpp>
#include <cstddef>

namespace boost {

namespace container {

namespace detail {

namespace mpl {

}}

}}

}}

#endif // BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
namespace boost {
namespace container {
namespace container_detail {

using boost::move_detail::integral_constant;
using boost::move_detail::true_type;
using boost::move_detail::false_type;
using boost::move_detail::enable_if_c;
using boost::move_detail::enable_if;
using boost::move_detail::enable_if_convertible;
using boost::move_detail::disable_if_c;
using boost::move_detail::disable_if;
using boost::move_detail::disable_if_convertible;
using boost::move_detail::is_convertible;
using boost::move_detail::if_c;
using boost::move_detail::if_;
using boost::move_detail::identity;
using boost::move_detail::bool_;
using boost::move_detail::true_;
using boost::move_detail::false_;
using boost::move_detail::yes_type;
using boost::move_detail::no_type;
using boost::move_detail::bool_;
using boost::move_detail::true_;
using boost::move_detail::false_;
using boost::move_detail::unvoid_ref;
using boost::move_detail::and_;
using boost::move_detail::or_;
using boost::move_detail::not_;
using boost::move_detail::enable_if_and;
using boost::move_detail::disable_if_and;
using boost::move_detail::enable_if_or;
using boost::move_detail::disable_if_or;

template <class Pair>
struct select1st
{
    typedef Pair argument_type;
    typedef typename Pair::first_type result_type;

    template<class OtherPair>
    const typename Pair::first_type& operator()(const OtherPair& x) const
    {  return x.first;  }

    const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
    {  return x;  }
}
BSON library for Go

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mgo - MongoDB driver for Go

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------------------------------------------------------------
tomb - support for clean goroutine termination in Go.

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End
#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
#  include <boost/config.hpp>
#endif

#if defined(BOOST_HAS_PRAGMA_ONCE)
#  pragma once
#endif

#include <boost/intrusive/detail/config_begin.hpp>
#include <boost/move/detail/type_traits.hpp>
#include <cstddef>

namespace boost {
namespace intrusive {
namespace detail {

using boost::move_detail::is_same;
using boost::move_detail::add_const;
using boost::move_detail::remove_const;
using boost::move_detail::remove_cv;
using boost::move_detail::remove_reference;
using boost::move_detail::add_reference;
using boost::move_detail::remove_pointer;
using boost::move_detail::add_pointer;
using boost::move_detail::true_type;
using boost::move_detail::false_type;
using boost::move_detail::enable_if_c;
using boost::move_detail::enable_if;
using boost::move_detail::disable_if_c;
using boost::move_detail::disable_if;
using boost::move_detail::is_convertible;
using boost::move_detail::if_c;
using boost::move_detail::if_;  
using boost::move_detail::is_const;  
using boost::move_detail::identity;  
using boost::move_detail::alignment_of;  
using boost::move_detail::is_empty;  
using boost::move_detail::addressof;  
using boost::move_detail::integral_constant;  
using boost::move_detail::enable_if_convertible;  
using boost::move_detail::disable_if_convertible;  
using boost::move_detail::bool_;  
using boost::move_detail::true_;  
using boost::move_detail::false_;  
using boost::move_detail::yes_type;  
using boost::move_detail::no_type;  
using boost::move_detail::apply;  
using boost::move_detail::eval_if_c;  
using boost::move_detail::eval_if;  
using boost::move_detail::unvoid_ref;  
using boost::move_detail::add_const_if_c;  

template<std::size_t S>  
struct ls_zeros  
{  
  static const std::size_t value = (S & std::size_t(1)) ? 0 : (1 + ls_zeros<(S>>1u)>::value);  
};  

template<>  
struct ls_zeros<0>  
{  
  static const std::size_t value = 0;  
};  

template<>  
struct ls_zeros<1>  
{  
  static const std::size_t value = 0;  
};  

// Infrastructure for providing a default type for T::TNAME if absent.  
#define BOOST_INTRUSIVE_INSTANTIATE_DEFAULT_TYPE_TMPLT(TNAME)   
  template <typename T, typename DefaultType>   
  struct boost_intrusive_default_type_ ## TNAME   
  {   
    template <typename X>   
    static char test(int, typename X::TNAME*);   
    
    template <typename X>   
    static int test(...);  
  };
typedef _bool

\template <class T>
\struct TRAITS_PREFIX##_bool
{
\template<bool Add>\
\struct two_or_three {\text{yes_type} _[2 + Add];};\
\template <class U> static \text{yes_type} test(...);\
\template <class U> static two_or_three<U::TYPEDEF_TO_FIND> test (int);
\static const \text{size_t} value = sizeof(test<T>(0));
};

\template <class T>
\struct TRAITS_PREFIX##_bool_is_true
{
\static const \text{bool} value = TRAITS_PREFIX##_bool<T>::value > sizeof(\text{yes_type})*2;
};

//
#define BOOST_INTRUSIVE_HAS_STATIC_MEMBER_FUNC_SIGNATURE(TRAITS_NAME, FUNC_NAME)\
\template <typename U, typename Signature>\
\class TRAITS_NAME\
{
\private:
\template<Signature> struct helper;
\template<typename T>\
\static ::\text{boost::intrusive::detail::yes_type} test(helper<&T::FUNC_NAME>*);\
\template<typename T> static ::\text{boost::intrusive::detail::no_type} test(...);
\public:
\static const \text{bool} value = sizeof(test<U>(0)) == sizeof(::\text{boost::intrusive::detail::yes_type});
};

//
#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME, FUNC_NAME)\
\template <typename Type>\
\struct TRAITS_NAME\
{
\struct BaseMixin\
{
\void FUNC_NAME();
};
\struct Base : public Type, public BaseMixin { Base(); };
\template <typename T, T T> class Helper{};
\template <typename U>\
\static ::\text{boost::intrusive::detail::no_type}  test(U*, Helper<void (BaseMixin::*)(), &U::FUNC_NAME>* = 0);\
\static ::\text{boost::intrusive::detail::yes_type} test(...);
\static const \text{bool} value = sizeof(::\text{boost::intrusive::detail::yes_type}) == sizeof(test((Base*)(0)));
//

#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED_IGNORE_SIGNATURE(TRAITS_NAME, 
FUNC_NAME) \
BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME##_ignore_signature, FUNC_NAME) \
\ 
template <typename Type, class> \
struct TRAITS_NAME\ 
  : public TRAITS_NAME##_ignore_signature<Type> \
{ }; \
//

} //namespace intrusive
} //namespace boost

#include <boost/intrusive/detail/config_end.hpp>

#endif //BOOST_INTRUSIVE_DETAIL_MPL_HPP

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mgo - MongoDB driver for Go

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1.457 mchange-commons-java 0.2.11

1.458 commons-fileupload 1.3.3

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1.459 rrd4j 2.0.6

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1.460 spring-amqp 1.6.5

1.461 activiti-form-model 6.0.0

1.462 activiti-process-validation 6.0.0

1.463 spring-web-mvc 4.3.13.RELEASE
1.464 jsr305 3.0.2

1.465 httpcore 4.0.1 GA
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1.466 netty-codec-dns 4.1.8.Final

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package org.springframework.orm;

import org.springframework.dao.OptimisticLockingFailureException;

/**
 * Exception thrown on an optimistic locking violation for a mapped object.
 * Provides information about the persistent class and the identifier.
 *
 * @author Juergen Hoeller
 * @since 13.10.2003
 */
@SuppressWarnings("serial")
public class ObjectOptimisticLockingFailureException extends OptimisticLockingFailureException {

    private Object persistentClass;

    private Object identifier;

    /**
     * Create a general ObjectOptimisticLockingFailureException with the given message,
     */
* without any information on the affected object.
* @param msg the detail message
* @param cause the source exception
*/

public ObjectOptimisticLockingFailureException(String msg, Throwable cause) {
    super(msg, cause);
}

/**
 * Create a new ObjectOptimisticLockingFailureException for the given object,
 * with the default "optimistic locking failed" message.
 * @param persistentClass the persistent class
 * @param identifier the ID of the object for which the locking failed
 */

public ObjectOptimisticLockingFailureException(Class<?> persistentClass, Object identifier) {
    this(persistentClass, identifier, null);
}

/**
 * Create a new ObjectOptimisticLockingFailureException for the given object,
 * with the given explicit message.
 * @param persistentClass the persistent class
 * @param identifier the ID of the object for which the locking failed
 * @param msg the detail message
 * @param cause the source exception
 */

public ObjectOptimisticLockingFailureException(
    Class<? super Class<? super ObjectOptimisticLockingFailureException( Class<?> persistentClass, Object identifier, String msg, Throwable cause) {

    super(msg, cause);
    this.persistentClass = persistentClass;
    this.identifier = identifier;
}
/**
 * Create a new ObjectOptimisticLockingFailureException for the given object,
 * with the default "optimistic locking failed" message.
 * @param persistentClassName the name of the persistent class
 * @param identifier the ID of the object for which the locking failed
 */
public ObjectOptimisticLockingFailureException(String persistentClassName, Object identifier) {
  this(persistentClassName, identifier, null);
}

/**
 * Create a new ObjectOptimisticLockingFailureException for the given object,
 * with the default "optimistic locking failed" message.
 * @param persistentClassName the name of the persistent class
 * @param identifier the ID of the object for which the locking failed
 * @param cause the source exception
 */
public ObjectOptimisticLockingFailureException(String persistentClassName, Object identifier, Throwable cause) {
  this(persistentClassName, identifier,
       "Object of class [" + persistentClassName + "] with identifier [" + identifier + "]: optimistic locking failed", cause);
}

/**
 * Create a new ObjectOptimisticLockingFailureException for the given object,
 * with the given explicit message.
 * @param persistentClassName the name of the persistent class
 * @param identifier the ID of the object for which the locking failed
 * @param msg the detail message
 * @param cause the source exception
 */
public ObjectOptimisticLockingFailureException(String persistentClassName, Object identifier, String msg, Throwable cause) {
  super(msg, cause);
  this.persistentClass = persistentClassName;
  this.identifier = identifier;
}

/**
 * Return the persistent class of the object for which the locking failed.
 * If no Class was specified, this method returns null.
 */
public Class<?> getPersistentClass() {

return (this.persistentClass instanceof Class ? (Class<?>) this.persistentClass : null);
}

/**
 * Return the name of the persistent class of the object for which the locking failed.
 * Will work for both Class objects and String names.
 */
public String getPersistentClassName() {
if (this.persistentClass instanceof Class) {
return ((Class<?>) this.persistentClass).getName();
}
return (this.persistentClass != null ? this.persistentClass.toString() : null);
}

/**
 * Return the identifier of the object for which the locking failed.
 */
public Object getIdentifier() {
return this.identifier;
}

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1.469 apache-ds-kerberos-codec 2.0.0-M15

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1.470 hibernate-validator 5.3.6.Final

1.471 isomorphic-fetch 2.2.1

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1.472 spring 4.3.13.release
1.473 animal-sniffer-annotation 1.14

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1.474 vertx-spring-ext 2.0.0

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 */

package org.springframework.http.codec.multipart;

/**
 * Specialization of {@link Part} for a form field.
 *
 * @author Rossen Stoyanchev
 * @since 5.0
 */
public interface FormFieldPart extends Part {

/**
 * Return the form field value.
 */
String value();

}

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1.479 spring-rabbit 1.7.6

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 */

package org.springframework.amqp.rabbit;

import java.nio.charset.Charset;
import java.util.Date;
import java.util.UUID;
import java.util.concurrent.ConcurrentHashMap;
import java.util.concurrent.ConcurrentMap;
import java.util.concurrent.ExecutionException;
import java.util.concurrent.ScheduledFuture;
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;

import org.springframework.amqp.AmqpException;
import org.springframework.amqp.core.AmqpMessageReturnedException;
import org.springframework.amqp.core.AmqpReplyTimeoutException;
import org.springframework.amqp.core.CorrelationAwareMessagePostProcessor;
import org.springframework.amqp.core.Message;
import org.springframework.amqp.core.MessageListeners;
import org.springframework.amqp.core.MessagePostProcessor;
import org.springframework.amqp.core.MessageProperties;
import org.springframework.amqp.rabbit.connection.ConnectionFactory;
import org.springframework.amqp.rabbit.core.RabbitTemplate;
import org.springframework.amqp.rabbit.core.RabbitTemplate.ConfirmCallback;
import org.springframework.amqp.rabbit.core.RabbitTemplate.ReturnCallback;
import org.springframework.amqp.rabbit.listener.SimpleMessageListenerContainer;
import org.springframework.amqp.support.CorrelationData;
import org.springframework.amqp.support.Correlation;
import org.springframework.amqp.support.converter.MessageConverter;
import org.springframework.beans.factory.BeanNameAware;
import org.springframework.context.SmartLifecycle;
import org.springframework.scheduling.TaskScheduler;
import org.springframework.scheduling.concurrent.ThreadPoolTaskScheduler;
import org.springframework.util.Assert;
import org.springframework.util.concurrent.ListenableFuture;
import org.springframework.util.concurrent.SettableListenableFuture;

/**
 * Provides asynchronous send and receive operations returning a {@link ListenableFuture}
 * allowing the caller to obtain the reply later, using {@code get()} or a callback.
 * <p>
 * When confirms are enabled, the future has a confirm property which is itself a
 * {@link ListenableFuture}. If the reply is received before the publisher confirm,
 * the confirm is discarded since the reply implicitly indicates the message was
 * published.
 * <p>
 * Returned (undeliverable) request messages are presented as a
 * {@link AmqpMessageReturnedException} cause of an {@link ExecutionException}.
 * <p>
 * Internally, the template uses a {@link RabbitTemplate} and a
 * {@link SimpleMessageListenerContainer} either provided or constructed internally.
 * If an external {@link RabbitTemplate} is provided and confirms/returns are enabled,
 * it must not previously have had callbacks registered because this object needs to
 * be the callback.
 * <p>
 * @author Gary Russell
 * @since 1.6
public class AsyncRabbitTemplate implements SmartLifecycle, MessageListener, ReturnCallback, ConfirmCallback, BeanNameAware {

    public static final int DEFAULT_RECEIVE_TIMEOUT = 30000;

    private final Log logger = LogFactory.getLog(this.getClass());

    private final RabbitTemplate template;

    private final SimpleMessageListenerContainer container;

    private final String replyAddress;

    @SuppressWarnings("rawtypes")
    private final ConcurrentMap<String, RabbitFuture> pending = new ConcurrentHashMap<String, RabbitFuture>();

    @SuppressWarnings("rawtypes")
    private final CorrelationMessagePostProcessor messagePostProcessor = new CorrelationMessagePostProcessor();

    private volatile boolean running;

    private volatile boolean enableConfirms;

    private volatile long receiveTimeout = DEFAULT_RECEIVE_TIMEOUT;

    private int phase;

    private boolean autoStartup = true;

    private Charset charset = Charset.forName("UTF-8");

    private String beanName;

    private TaskScheduler taskScheduler;

    private boolean internalTaskScheduler = true;

    /**
     * Construct an instance using the provided arguments. Replies will be
     * routed to the default exchange using the reply queue name as the routing
     * key.
     * @param connectionFactory the connection factory.
     * @param exchange the default exchange to which requests will be sent.
     * @param routingKey the default routing key.
     * @param replyQueue the name of the reply queue to listen for replies.
     */
public AsyncRabbitTemplate(ConnectionFactory connectionFactory, String exchange, String routingKey, String replyQueue) {
    this(connectionFactory, exchange, routingKey, replyQueue, null);
}

/**
 * Construct an instance using the provided arguments. If 'replyAddress' is null,
 * replies will be routed to the default exchange using the reply queue name as the
 * routing key. Otherwise it should have the form exchange/routingKey and must
 * cause messages to be routed to the reply queue.
 * @param connectionFactory the connection factory.
 * @param exchange the default exchange to which requests will be sent.
 * @param replyQueue the name of the reply queue to listen for replies.
 * @param replyAddress the reply address (exchange/routingKey).
 */
public AsyncRabbitTemplate(ConnectionFactory connectionFactory, String exchange, String routingKey, String replyQueue, String replyAddress) {
    Assert.notNull(connectionFactory, "'connectionFactory' cannot be null");
    Assert.notNull(routingKey, "'routingKey' cannot be null");
    Assert.notNull(replyQueue, "'replyQueue' cannot be null");
    this.template = new RabbitTemplate(connectionFactory);
    this.template.setExchange(exchange == null ? "" : exchange);
    this.template.setRoutingKey(routingKey);
    this.container = new SimpleMessageListenerContainer(connectionFactory);
    this.container.setQueueNames(replyQueue);
    this.container.setMessageListener(this);
    this.container.afterPropertiesSet();
    if (replyAddress == null) {
        this.replyAddress = replyQueue;
    } else {
        this.replyAddress = replyAddress;
    }
}

/**
 * Construct an instance using the provided arguments. The first queue the container
 * is configured to listen to will be used as the reply queue. Replies will be
 * routed using the default exchange with that queue name as the routing key.
 * @param template a @link RabbitTemplate
 * @param container a @link SimpleMessageListenerContainer.
 */
public AsyncRabbitTemplate(RabbitTemplate template, SimpleMessageListenerContainer container) {
    this(template, container, null);
}
/**
 * Construct an instance using the provided arguments. The first queue the container
 * is configured to listen to will be used as the reply queue. If 'replyAddress' is
 * null, replies will be routed using the default exchange with that queue name as the
 * routing key. Otherwise it should have the form exchange/routingKey and must
 * cause messages to be routed to the reply queue.
 * @param template a [link RabbitTemplate].
 * @param container a [link SimpleMessageListenerContainer].
 * @param replyAddress the reply address.
 */
public AsyncRabbitTemplate(RabbitTemplate template, SimpleMessageListenerContainer container, String
replyAddress) {
Assert.notNull(template, "template' cannot be null");
Assert.notNull(container, "container' cannot be null");
this.template = template;
this.container = container;
this.container.setMessageListener(this);
if (replyAddress == null) {
this.replyAddress = container.getQueueNames()[0];
} else {
this.replyAddress = replyAddress;
}

/**
 * @param autoStartup true for auto start.
 * @see #isAutoStartup()
 */
public void setAutoStartup(boolean autoStartup) {
this.autoStartup = autoStartup;
}

/**
 * @param phase the phase.
 * @see #getPhase()
 */
public void setPhase(int phase) {
this.phase = phase;
}

/**
 * Set to true to enable the receipt of returned messages that cannot be delivered
 * in the form of a [link AmqpMessageReturnedException].
 * @param mandatory true to enable returns.
 */
public void setMandatory(boolean mandatory) {
if (mandatory) {
/**
 * Set to true to enable publisher confirms. When enabled, the `RabbitFuture`
 * returned by the send and receive operation will have a
 * `ListenableFuture<Boolean>` in its `confirm` property.
 * @param enableConfirms true to enable publisher confirms.
 */
public void setEnableConfirms(boolean enableConfirms) {
    this.enableConfirms = enableConfirms;
    if (enableConfirms) {
        this.template.setConfirmCallback(this);
    }
}

/**
 * Set the charset to be used when converting byte[] to/from String for
 * @param charset the charset.
 * @deprecated - will be removed in 2.0 when byte[] correlation id is removed
 */
@Deprecated
public void setCharset(Charset charset) {
    this.charset = charset;
}

public String getBeanName() {
    return this.beanName;
}

@Override
public void setBeanName(String beanName) {
    this.beanName = beanName;
}

/**
 * @return a reference to the underlying connection factory in the
 * `RabbitTemplate`.
 */
public ConnectionFactory getConnectionFactory() {
    return this.template.getConnectionFactory();
}

/**
 * Set the receive timeout - the future returned by the send and receive
* methods will be canceled when this timeout expires. [@code <= 0] means
* futures never expire. Beware that this will cause a memory leak if a
* reply is not received. Default: 30000 (30 seconds).
* @param receiveTimeout the timeout in milliseconds.
*/
public void setReceiveTimeout(long receiveTimeout) {
    this.receiveTimeout = receiveTimeout;
}

/**
 * Set the task scheduler to expire timed out futures.
 * @param taskScheduler the task scheduler
 * @see #setReceiveTimeout(long)
 */
public synchronized void setTaskScheduler(TaskScheduler taskScheduler) {
    Assert.notNull(taskScheduler, "'taskScheduler' cannot be null");
    this.internalTaskScheduler = false;
    this.taskScheduler = taskScheduler;
}

/**
 * @return a reference to the underlying [link RabbitTemplate]'s
 * [link MessageConverter].
 */
public MessageConverter getMessageConverter() {
    return this.template.getMessageConverter();
}

/**
 * Send a message to the default exchange with the default routing key. If the message
 * contains a correlationId property, it must be unique.
 * @param message the message.
 * @return the [link RabbitMessageFuture].
 */
public RabbitMessageFuture sendAndReceive(Message message) {
    return sendAndReceive(this.template.getExchange(), this.template.getRoutingKey(), message);
}

/**
 * Send a message to the default exchange with the supplied routing key. If the message
 * contains a correlationId property, it must be unique.
 * @param routingKey the routing key.
 * @param message the message.
 * @return the [link RabbitMessageFuture].
 */
public RabbitMessageFuture sendAndReceive(String routingKey, Message message) {
    return sendAndReceive(this.template.getExchange(), routingKey, message);
}
/**
 * Convert the object to a message and send it to the default exchange with the
 * default routing key.
 * @param message the message.
 * @param <C> the expected result type.
 * @return the {@link RabbitConverterFuture}.
 */
public <C> RabbitConverterFuture<C> convertSendAndReceive(Object message) {
    return convertSendAndReceive(this.template.getExchange(), this.template.getRoutingKey(), message, null);
}

/**
 * Convert the object to a message and send it to the default exchange with the
 * provided routing key.
 * @param routingKey the routing key.
 * @param message the message.
 * @param <C> the expected result type.
 * @return the {@link RabbitConverterFuture}.
 */
public <C> RabbitConverterFuture<C> convertSendAndReceive(String routingKey, Object message) throws
AmqpException {
    return convertSendAndReceive(this.template.getExchange(), routingKey, message, null);
}

/**
 * Convert the object to a message and send it to the provided exchange and
 * routing key.
 * @param exchange the exchange.
 * @param routingKey the routing key.
 * @param message the message.
 * @param <C> the expected result type.
 * @return the {@link RabbitConverterFuture}.
 */
public <C> RabbitConverterFuture<C> convertSendAndReceive(String exchange, String routingKey, Object
message) {
    return convertSendAndReceive(exchange, routingKey, message, null);
}

/**
 * Convert the object to a message and send it to the default exchange with the
 * default routing key after invoking the {@link MessagePostProcessor}.
 * If the post processor adds a correlationId property, it must be unique.
 * @param message the message.
 * @param messagePostProcessor the post processor.
 * @param <C> the expected result type.
 * @return the {@link RabbitConverterFuture}.
 */

public <C> RabbitConverterFuture<C> convertSendAndReceive(Object message, MessagePostProcessor messagePostProcessor) {
    return convertSendAndReceive(this.template.getExchange(), this.template.getRoutingKey(), message, messagePostProcessor);
}

/**
 * Convert the object to a message and send it to the default exchange with the
 * provided routing key after invoking the [@link MessagePostProcessor].
 * If the post processor adds a correlationId property, it must be unique.
 * @param routingKey the routing key.
 * @param message the message.
 * @param messagePostProcessor the post processor.
 * @param <C> the expected result type.
 * @return the [@link RabbitConverterFuture].
 */
public <C> RabbitConverterFuture<C> convertSendAndReceive(String routingKey, Object message, MessagePostProcessor messagePostProcessor) {
    return convertSendAndReceive(this.template.getExchange(), routingKey, message, messagePostProcessor);
}

/**
 * Send a message to the supplied exchange and routing key. If the message
 * contains a correlationId property, it must be unique.
 * @param exchange the exchange.
 * @param routingKey the routing key.
 * @param message the message.
 * @return the [@link RabbitMessageFuture].
 */
public RabbitMessageFuture sendAndReceive(String exchange, String routingKey, Message message) {
    String correlationId = getOrSetCorrelationIdAndSetReplyTo(message);
    RabbitMessageFuture future = new RabbitMessageFuture(correlationId, message);
    CorrelationData correlationData = null;
    if (this.enableConfirms) {
        correlationData = new CorrelationData(correlationId);
        future.setConfirm(new SettableListenableFuture<Boolean>());
    }
    this.pending.put(correlationId, future);
    this.template.send(exchange, routingKey, message, correlationData);
    return future;
}

/**
 * Convert the object to a message and send it to the provided exchange and
 * routing key after invoking the [@link MessagePostProcessor].
 * If the post processor adds a correlationId property, it must be unique.
 * @param exchange the exchange
 * @param routingKey the routing key.
 * @param message the message.
 * @param messagePostProcessor the post processor.
 * @param <C> the expected result type.
 * @return the [@link RabbitConverterFuture].
 */
public <C> RabbitConverterFuture<C> convertSendAndReceive(String exchange, String routingKey, Object message, MessagePostProcessor messagePostProcessor) {
    return convertSendAndReceive(this.template.getExchange(), routingKey, message, messagePostProcessor);
}
public <C> RabbitConverterFuture<C> convertSendAndReceive(String exchange, String routingKey, Object message, MessagePostProcessor messagePostProcessor) {
    AsyncCorrelationData<C> correlationData = new AsyncCorrelationData<C>(messagePostProcessor, this.enableConfirms);
    this.template.convertAndSend(exchange, routingKey, message, this.messagePostProcessor, correlationData);
    return correlationData.future;
}

@Override
public synchronized void start() {
    if (!this.running) {
        if (this.internalTaskScheduler) {
            ThreadPoolTaskScheduler scheduler = new ThreadPoolTaskScheduler();
            scheduler.setThreadNamePrefix(getBeanName() == null ? "asyncTemplate-" : (getBeanName() + ".-"));
            scheduler.afterPropertiesSet();
            this.taskScheduler = scheduler;
        }
        this.container.start();
    }
    this.running = true;
}

@Override
public synchronized void stop() {
    if (this.running) {
        this.container.stop();
        for (RabbitFuture<?> future : this.pending.values()) {
            future.setNackCause("AsyncRabbitTemplate was stopped while waiting for reply");
            future.cancel(true);
        }
        if (this.internalTaskScheduler) {
            ((ThreadPoolTaskScheduler) this.taskScheduler).destroy();
            this.taskScheduler = null;
        }
    }
    this.running = false;
}

@Override
public boolean isRunning() {
    return this.running;
}
@Override
public int getPhase() {
    return this.phase;
}

@Override
public boolean isAutoStartup() {
    return this.autoStartup;
}

@Override
public void stop(Runnable callback) {
    stop();
    callback.run();
}

@SupressWarnings("unchecked")
@Override
public void onMessage(Message message) {
    MessageProperties messageProperties = message.getMessageProperties();
    if (messageProperties != null) {
        @SupressWarnings("deprecation")
        byte[] correlationId = messageProperties.getCorrelationId();
        if (correlationId != null) {
            if (this.logger.isDebugEnabled()) {
                this.logger.debug("onMessage: " + message);
            }
            RabbitFuture<?> future = this.pending.remove(new String(correlationId, this.charset));
            if (future != null) {
                if (future instanceof AsyncRabbitTemplate.RabbitConverterFuture) {
                    Object converted = this.template.getMessageConverter().fromMessage(message);
                    ((RabbitConverterFuture<Object>) future).set(converted);
                } else {
                    ((RabbitMessageFuture) future).set(message);
                }
            } else {
                if (this.logger.isDebugEnabled()) {
                    this.logger.warn("No pending reply - perhaps timed out: " + message);
                }
            }
        } else {
            if (this.logger.isDebugEnabled()) {
                this.logger.debug("onMessage: " + message);
            }
        }
    } else {
        if (this.logger.isDebugEnabled()) {
            this.logger.debug("onMessage: " + message);
        }
    }
}

@Override
public void returnedMessage(Message message, int replyCode, String replyText, String exchange, String routingKey) {
MessageProperties messageProperties = message.getMessageProperties();
@SuppressWarnings("deprecation")
byte[] correlationId = messageProperties.getCorrelationId();
if (correlationId != null) {
    RabbitFuture<?> future = this.pending.remove(new String(correlationId, this.charset));
    if (future != null) {
        future.setException(new AmqpMessageReturnedException("Message returned", message, replyCode, replyText, exchange, routingKey));
    }
}

@Override
public void confirm(CorrelationData correlationData, boolean ack, String cause) {
    if (this.logger.isDebugEnabled()) {
        this.logger.debug("Confirm: " + correlationData + ", ack=" + ack
                + (cause == null ? "" : ("", cause: "+ cause)));
    }
    String correlationId = correlationData.getId();
    if (correlationId != null) {
        RabbitFuture<?> future = this.pending.get(correlationId);
        if (future != null) {
            future.setNackCause(cause);
            ((SettableListenableFuture<Boolean>) future.getConfirm()).set(ack);
        } else {
            if (this.logger.isDebugEnabled()) {
                this.logger.debug("Confirm: " + correlationData + ", ack=" + ack
                        + (cause == null ? "" : ("", cause: "+ cause))
                        + " no pending future - either canceled or the reply is already received");
            }
        }
    } else {
        if (this.logger.isDebugEnabled()) {
            this.logger.debug("Confirm: " + correlationData + ", ack=" + ack
                    + (cause == null ? "" : ("", cause: "+ cause))
                    + " no pending future - either canceled or the reply is already received");
        }
    }
}

@SuppressWarnings("deprecation")
private String getOrSetCorrelationIdAndSetReplyTo(Message message) {
    String correlationId;
    MessageProperties messageProperties = message.getMessageProperties();
    Assert.notNull(messageProperties, "the message properties cannot be null");
    byte[] currentCorrelationId = messageProperties.getCorrelationId();
    if (currentCorrelationId == null) {
        correlationId = UUID.randomUUID().toString();
        messageProperties.setCorrelationId(correlationId.getBytes(this.charset));
        Assert.isNull(messageProperties.getReplyTo(), "'replyTo' property must be null");
    } else {
        correlationId = messageProperties.getCorrelationId();
    }
    return correlationId;
}
else {
    correlationId = new String(currentCorrelationId, this.charset);
}
messageProperties.setReplyTo(this.replyAddress);
return correlationId;
}

@Override
public String toString() {
    return this.beanName == null ? super.toString() : (this.getClass().getSimpleName() + ": " + this.beanName);
}

/**
 * Base class for {@link ListenableFuture}s returned by {@link AsyncRabbitTemplate}.
 * @since 1.6
 */
public abstract class RabbitFuture<T> extends SettableListenableFuture<T> {

    private final String correlationId;
    private final Message requestMessage;
    private final ScheduledFuture<?> cancelTask;
    private volatile ListenableFuture<Boolean> confirm;
    private String nackCause;

    public RabbitFuture(String correlationId, Message requestMessage) {
        this.correlationId = correlationId;
        this.requestMessage = requestMessage;
        if (AsyncRabbitTemplate.this.receiveTimeout > 0) {
            synchronized (AsyncRabbitTemplate.this) {
                if (!AsyncRabbitTemplate.this.running) {
                    AsyncRabbitTemplate.this.pending.remove(this.correlationId);
                    throw new IllegalStateException("'AsyncRabbitTemplate' must be started.");
                }
                this.cancelTask = AsyncRabbitTemplate.this.taskScheduler.schedule(new CancelTask(),
                        new Date(System.currentTimeMillis() + AsyncRabbitTemplate.this.receiveTimeout));
            }
        } else {
            this.cancelTask = null;
        }
    }

    @Override
    public boolean cancel(boolean mayInterruptIfRunning) {
        return false;
    }
}
if (this.cancelTask != null) {
    this.cancelTask.cancel(true);
}
AsyncRabbitTemplate.this.pending.remove(this.correlationId);
return super.cancel(mayInterruptIfRunning);
}

/**
 * When confirms are enabled contains a { @link ListenableFuture }
 * @return the future.
 */
public ListenableFuture<Boolean> getConfirm() {
    return this.confirm;
}
void setConfirm(ListenableFuture<Boolean> confirm) {
    this.confirm = confirm;
}

/**
 * @return the cause.
 */
public String getNackCause() {
    return this.nackCause;
}
void setNackCause(String nackCause) {
    this.nackCause = nackCause;
}

private class CancelTask implements Runnable {

    @Override
    public void run() {
        AsyncRabbitTemplate.this.pending.remove(RabbitFuture.this.correlationId);
        setException(new AmqpReplyTimeoutException("Reply timed out", RabbitFuture.this.requestMessage));
    }
}

/**
 * A { @link RabbitFuture } with a return type of { @link Message }.  
 * @since 1.6
public class RabbitMessageFuture extends RabbitFuture<Message> {

public RabbitMessageFuture(String correlationId, Message requestMessage) {
    super(correlationId, requestMessage);
}

}

/**
 * A {@link RabbitFuture} with a return type of the template's
 * generic parameter.
 * @since 1.6
 */
public class RabbitConverterFuture<C> extends RabbitFuture<C> {

public RabbitConverterFuture(String correlationId, Message requestMessage) {
    super(correlationId, requestMessage);
}

}

private final class CorrelationMessagePostProcessor<C> implements CorrelationAwareMessagePostProcessor {

CorrelationMessagePostProcessor() {
    super();
}

@Override
public Message postProcessMessage(Message message) throws AmqpException {
    throw new UnsupportedOperationException();
}

@Override
public Message postProcessMessage(Message message, Correlation correlation) throws AmqpException {
    Message messageToSend = message;
    AsyncCorrelationData<C> correlationData = (AsyncCorrelationData<C>) correlation;
    if (correlationData.userPostProcessor != null) {
        messageToSend = correlationData.userPostProcessor.postProcessMessage(message);
    }
    String correlationId = getOrSetCorrelationIdAndSetReplyTo(messageToSend);
    correlationData.future = new RabbitConverterFuture<C>(correlationId, message);
    if (correlationData.enableConfirms && correlationData.getId() == null) {
        correlationData.setId(correlationId);
        correlationData.future.setConfirm(new SettableListenableFuture<Boolean>());
    }
    AsyncRabbitTemplate.this.pending.put(correlationId, correlationData.future);
}
return messageToSend;
}
}

private static class AsyncCorrelationData<C> extends CorrelationData {

private final MessagePostProcessor userPostProcessor;

private final boolean enableConfirms;

private volatile RabbitConverterFuture<C> future;

AsyncCorrelationData(MessagePostProcessor userPostProcessor, boolean enableConfirms) {
    this.userPostProcessor = userPostProcessor;
    this.enableConfirms = enableConfirms;
}
}

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1.480 tomcat-embed-websocket 8.5.6

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*/
package build.tools.cldrconverter;

import java.util.Calendar;
import java.util.GregorianCalendar;
import java.util.Locale;
import java.util.TimeZone;

class CopyrightHeaders {
    private static final String ORACLE2012 =
        "/*
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         * */
    ;

    private static final String ORACLE_AFTER2012 =
        "/*
         * Copyright (c) 2012, %d, Oracle and/or its affiliates. All rights reserved.
         * */
    ;

    private static final String UNICODE =
        "/*
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" * Please contact Oracle, 500 Oracle Parkway, Redwood Shores, CA 94065 USA\n" * or visit www.oracle.com if you need additional information or have any\n" * questions.\n" */

private static String OPENJDK_AFTER2012 =
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*/

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    int year = getYear();
    return String.format(year > 2012 ? ORACLE_AFTER2012 : ORACLE2012, year);
}

static String getUnicodeCopyright() {
    return UNICODE;
}

static String getOpenJDKCopyright() {
    int year = getYear();
    return String.format(year > 2012 ? OPENJDK_AFTER2012 : OPENJDK2012, year);
}

private static int getYear() {
    return new GregorianCalendar(TimeZone.getTimeZone("America/Los_Angesles"),
            Locale.US).get(Calendar.YEAR);
}

// no instantiation
private CopyrightHeaders() {
}

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David Megginson
david@megginson.com
2000-01-14
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# Uses Fedora Core 6 fonts and file paths.
version=1

# Component Font Mappings

dialog_plain_latin-1=DejaVu LGC Sans
dialog_plain_japanese-x0208=Sazanami Gothic
dialog_plain_korean=Baekmuk Gulim
dialog_plain_chinese-big5=AR PL ShanHeiSun Uni
dialog_plain_chinese-gb18030=AR PL ShanHeiSun Uni

dialog_bold_latin-1=DejaVu LGC Sans Bold
dialog_bold_japanese-x0208=Sazanami Gothic
dialog_bold_korean=Baekmuk Gulim
dialog_bold_chinese-big5=AR PL ShanHeiSun Uni
dialog_bold_chinese-gb18030=AR PL ShanHeiSun Uni

dialog_italic_latin-1=DejaVu LGC Sans Oblique
dialog_italic_japanese-x0208=Sazanami Gothic
dialog_italic_korean=Baekmuk Gulim
dialog_italic_chinese-big5=AR PL ShanHeiSun Uni
dialog_italic_chinese-gb18030=AR PL ShanHeiSun Uni

dialog_bolditalic_latin-1=DejaVu LGC Sans Bold Oblique
dialog_bolditalic_japanese-x0208=Sazanami Gothic
dialog_bolditalic_korean=Baekmuk Gulim
dialog_bolditalic_chinese-big5=AR PL ShanHeiSun Uni
dialog_bolditalic_chinese-gb18030=AR PL ShanHeiSun Uni

sansserif_plain_latin-1=DejaVu LGC Sans
sansserif_plain_japanese-x0208=Sazanami Gothic
sansserif_plain_korean=Baekmuk Gulim
sansserif_plain_chinese-big5=AR PL ShanHeiSun Uni
sansserif_plain_chinese-gb18030=AR PL ShanHeiSun Uni

sansserif_bold_latin-1=DejaVu LGC Sans Bold
sansserif_bold_japanese-x0208=Sazanami Gothic
sansserif_bold_korean=Baekmuk Gulim
sansserif_bold_chinese-big5=AR PL ShanHeiSun Uni
sansserif_bold_chinese-gb18030=AR PL ShanHeiSun Uni

sansserif_italic_latin-1=DejaVu LGC Sans Oblique
sansserif_italic_japanese-x0208=Sazanami Gothic
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David Megginson <sax@megginson.com>

1998-05-11
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 */

/**
 *
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import java.rmi.Remote;
public interface Legal extends Remote {};
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</p>
import org.somewhere.ws.EchoRequest;
import org.somewhere.ws.EchoResponse;

public class CopyingResponse extends EchoResponse {

    public CopyingResponse() {} 

    public CopyingResponse(EchoRequest request) {
        content = request.getContent();
    }
}

package java.security.acl;

/**
 * This interface represents a permission, such as that used to grant
 * a particular type of access to a resource.
 *
 * @author Satish Dharmaraj
 */

public interface Permission {

/**
 * Returns true if the object passed matches the permission represented
 * in this interface.
 * 
 * @param another the Permission object to compare with.
 * 
 * @return true if the Permission objects are equal, false otherwise
 * /
 * public boolean equals(Object another);
 */

/**
 * Prints a string representation of this permission.
 * 
 * @return the string representation of the permission.
 * /
 * public String toString();

}
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Version 2, June 1991

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package java.security;

/**
 * Abstract class for representing access to a system resource.
 * All permissions have a name (whose interpretation depends on the subclass),
 * as well as abstract functions for defining the semantics of the
 * particular Permission subclass.
 *
 * <p>Most Permission objects also include an "actions" list that tells the actions
 * that are permitted for the object. For example,
 * for a java.io.FilePermission object, the permission name is
 * the pathname of a file (or directory), and the actions list
 * (such as "read, write") specifies which actions are granted for the
 * specified file (or for files in the specified directory).
 * The actions list is optional for Permission objects, such as
 * java.lang.RuntimePermission,
 * that don't need such a list; you either have the named permission (such
 * as "system.exit") or you don't.
 */
An important method that must be implemented by each subclass is
the {code implies} method to compare Permissions. Basically,
"permission p1 implies permission p2" means that
if one is granted permission p1, one is naturally granted permission p2.
Thus, this is not an equality test, but rather more of a
subset test.

Permission objects are similar to String objects in that they
are immutable once they have been created. Subclasses should not
provide methods that can change the state of a permission
once it has been created.

Permission objects are similar to String objects in that they
are immutable once they have been created. Subclasses should not
provide methods that can change the state of a permission
once it has been created.

@see Permissions
@see PermissionCollection

@see Marianne Mueller
@see Roland Schemers

public abstract class Permission implements Guard, java.io.Serializable {

private static final long serialVersionUID = -563657022231596674L;

private String name;

/**
 * Constructs a permission with the specified name.
 *
 * @param name name of the Permission object being created.
 *
 */

public Permission(String name) {
    this.name = name;
}

/**
 * Implements the guard interface for a permission. The
 * {code SecurityManager.checkPermission} method is called,
 * passing this permission object as the permission to check.
 * Returns silently if access is granted. Otherwise, throws
 * a SecurityException.
 *
 * @param object the object being guarded (currently ignored).
 *
 * @throws SecurityException

if a security manager exists and its
    [ @code checkPermission] method doesn't allow access.

@see Guard
@see GuardedObject
@see SecurityManager#checkPermission

/public void checkGuard(Object object) throws SecurityException {
    SecurityManager sm = System.getSecurityManager();
    if (sm != null) sm.checkPermission(this);
}/**
 * Checks if the specified permission's actions are "implied by"
 * this object's actions.
 * <P>
 * This must be implemented by subclasses of Permission, as they are the
 * only ones that can impose semantics on a Permission object.
 *<p>The [ @code implies] method is used by the AccessController to determine
 * whether or not a requested permission is implied by another permission that
 * is known to be valid in the current execution context.
 *<p>@param permission the permission to check against.
 *<p>@return true if the specified permission is implied by this object,
 * false if not.
 */

public abstract boolean implies(Permission permission);

//**
 * Checks two Permission objects for equality.
 * <P>
 * Do not use the [ @code equals] method for making access control
 * decisions; use the [ @code implies] method.
 *<p>@param obj the object we are testing for equality with this object.
 *<p>@return true if both Permission objects are equivalent.
 */

public abstract boolean equals(Object obj);

//**
 * Returns the hash code value for this Permission object.
 * <P>
* The required [@code hashCode] behavior for Permission Objects is
  * the following:
  * <ul>
  * <li>Whenever it is invoked on the same Permission object more than
  * once during an execution of a Java application, the
  *   [@code hashCode] method
  *   must consistently return the same integer. This integer need not
  *   remain consistent from one execution of an application to another
  *   execution of the same application.
  * <li>If two Permission objects are equal according to the
  *   [@code equals] method, then calling the [@code hashCode] method on each of the
  *   two Permission objects must produce the same integer result.
  * </ul>
  *
  * @return a hash code value for this object.
  */

public abstract int hashCode();

/**
 * Returns the name of this Permission.
 * For example, in the case of a [@code java.io.FilePermission],
 * the name will be a pathname.
 *
 * @return the name of this Permission.
 */

public final String getName() {
    return name;
}

/**
 * Returns the actions as a String. This is abstract
 * so subclasses can defer creating a String representation until
 * one is needed. Subclasses should always return actions in what they
 * consider to be their
 * canonical form. For example, two FilePermission objects created via
 * the following:
 * *
 * <pre>
 * perm1 = new FilePermission(p1,"read,write");
 * perm2 = new FilePermission(p2,"write,read");
 * </pre>
 *
 * both return
 * "read,write" when the [@code getActions] method is invoked.
@return the actions of this Permission.

public abstract String getActions();

/**
 * Returns an empty PermissionCollection for a given Permission object, or null if
 * one is not defined. Subclasses of class Permission should
 * override this if they need to store their permissions in a particular
 * PermissionCollection object in order to provide the correct semantics
 * when the {@code PermissionCollection.implies} method is called.
 * If null is returned,
 * then the caller of this method is free to store permissions of this
 * type in any PermissionCollection they choose (one that uses a Hashtable,
 * one that uses a Vector, etc).
 *
 * @return a new PermissionCollection object for this type of Permission, or
 * null if one is not defined.
 */

public PermissionCollection newPermissionCollection() { return null; }

/**
 * Returns a string describing this Permission. The convention is to
 * specify the class name, the permission name, and the actions in
 * the following format: '("ClassName" "name" "actions")', or
 * '("ClassName" "name")' if actions list is null or empty.
 *
 * @return information about this Permission.
 */

public String toString() {
    String actions = getActions();
    if ((actions == null) || (actions.length() == 0)) { // OPTIONAL
        return "(" + getClass().getName() + " " + name + ")";
    } else {
        return "(" + getClass().getName() + " " + name + " " + actions + ")";
    }
}

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1.488 spring-rabbit 1.7.2.RELEASE

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1.489 classmate 1.3.1

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1.491 servlet-api 2.5

1.492 aspectjrt 1.8.9
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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;
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 */

1.496 groovy-all 2.4.15

1.497 tomcat-embed-core 8.5.32
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- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
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- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
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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
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
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/**
 * An AccessException is thrown by an accessor if it has an unexpected problem.
 * @author Andy Clement
 * @since 3.0
 */
@SuppressWarnings("serial")
public class AccessException extends Exception {

/**
 * Create an AccessException with a specific message.
 * @param message the message
 */
public AccessException(String message) {
    super(message);
}

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 * Create an AccessException with a specific message and cause.
 * @param message the message
 * @param cause the cause
 */
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 */

package org.springframework.core;

/**
 * Common interface for managing aliases. Serves as super-interface for
 * \{@link org.springframework.beans.factory.support.BeanDefinitionRegistry\}.
 *
 * @author Juergen Hoeller
 * @since 2.5.2
 */
public interface AliasRegistry {

/**

Given a name, register an alias for it.

```java
void registerAlias(String name, String alias);
```

Remove the specified alias from this registry.

```java
void removeAlias(String alias);
```

Determine whether this given name is defined as an alias

```java
boolean isAlias(String name);
```

Return the aliases for the given name, if defined.

```java
String[] getAliases(String name);
```
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import os
import sys
import re

def warn(fname, ln, msg):
    print '%s: %d: %s' % (fname, ln + 1, msg)

def indicates_license(line):
    return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line

# Check a comment for boilerplate violations. Return true if the comment
# is a license statement.
def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
    text_seen = False
    is_license = False
    for line in comment:
        if not is_license and indicates_license(line):
            is_license = True
        if text_seen:
            warn(fname, ln, 'License begins after first line of comment')
        elif code_seen:
            warn(fname, ln, 'License after code')
        elif nonlicense_seen:
            warn(fname, ln, 'License after non-license comments')
        break
    # DB2 licenses start with '/*-.' and we don't want to change them.
if line != '' and line != '-':
    text_seen = True
return is_license

def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1

    # Check filename comment if present.
    m = re.match(r'^ * ([^ ]*) * - . */', lines[ln])
    if m:
        if m.group(1) != fname:
            warn((fname, ln, 'Wrong filename in comment'))
        ln += 1

    # Scan for license statements.
    in_comment = False
    code_seen = False
    nonlicense_seen = False
    for line in lines[ln:]:
        # Strip out whitespace and comments contained within a line.
        if not in_comment:
            line = re.sub(r'/\*.*?\*/', '', line)
            line = line.strip()
        if not in_comment and '/*' in line:
            (line, sep, comment_part) = line.partition('/*')
            comment = [comment_part.strip()]
            comment_starts_at = ln
            in_comment = True
        elif in_comment and '*/' not in line:
            comment.append(line.lstrip('*').lstrip())
        elif in_comment:
            (comment_part, sep, line) = line.partition('*/')
            comment.append(comment_part.strip())
        is_license = check_comment(comment, fname, comment_starts_at,
                                    code_seen, nonlicense_seen)
        nonlicense_seen = nonlicense_seen or not is_license
        in_comment = False
        if line.strip() != '':
            code_seen = True
    ln += 1

for fname in sys.argv[1:]:
    if fname.startswith('('./):
fname = fname[2:]
f = open(fname)
lines = f.readlines()
f.close()
check_file(lines, fname)
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<title>MIT Kerberos License information &#8212; MIT Kerberos Documentation</title>
<link rel="stylesheet" href="_static/agogo.css" type="text/css" />
<link rel="stylesheet" href="_static/pygments.css" type="text/css" />
<link rel="stylesheet" href="_static/kerb.css" type="text/css" />
<script type="text/javascript">
var DOCUMENTATION_OPTIONS = {
URL_ROOT: './',
VERSION: '1.17',
COLLAPSE_INDEX: false,
FILE_SUFFIX: '.html',
HAS_SOURCE: true,
SOURCELINK_SUFFIX: '.txt'
};
</script>
<script type="text/javascript" src="_static/jquery.js"></script>
<script type="text/javascript" src="_static/underscore.js"></script>
<script type="text/javascript" src="_static/doctools.js"></script>
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</head>
<body>
<div class="header-wrapper">
<div class="header">

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accesskey="C">Contents</a> |
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</p>
and the initial implementation of incremental propagation, including the following new or changed files:

```c
#include <iprop_hdr.h>

kadmin/server/ipropd_svc.c

lib/kdb/iprop.x

lib/kdb/kdb_convert.c

```

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lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
```
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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
```
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lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
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lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
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lib/libgss/g_export_name.c
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lib/libgss/g_glue.c
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lib/libgss/g_imp_name.c
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lib/libgss/g_imp_sec_context.c
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lib/libgss/g_init_sec_context.c
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lib/libgss/g_initialize.c
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lib/libgss/g_inquire_context.c
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lib/libgss/g_inquire_cred.c
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lib/libgss/g_inquire_names.c
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lib/libgss/g_process_context.c
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lib/libgss/g_rel_buffer.c
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lib/libgss/g_rel_cred.c
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lib/libgss/g_rel_name.c
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lib/libgss/g_rel_oid_set.c
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lib/libgss/g_seal.c
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lib/libgss/g_sign.c
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lib/libgss/g_store_cred.c
lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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lib/gssapi/mechglue/g_acquire_credential.c
lib/gssapi/mechglue/g_canonicalize.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_display_name.c
lib/gssapi/mechglue/g_display_status.c
lib/gssapi/mechglue/g_duplicate_name.c
lib/gssapi/mechglue/g_exchange_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_principal.c
lib/gssapi/mechglue/g_impミュコンロ.c
lib/gssapi/mechglue/g_init_security_context.c
lib/gssapi/mechglue/g_initialize.c
and the initial implementation of incremental propagation, including
the following new or changed files:

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    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
    kprop/kpropd_rpc.c
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in `\`src/lib/gssapi\```, including the following files:

```
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
```
and the initial implementation of incremental propagation, including
the following new or changed files:

.. parsed-literal::

   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
   kprop/kpropd_rpc.c
   kprop/kproplog.c

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1.520 spring-boot-autoconfigure
1.5.10.RELEASE

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package org.springframework.beans;

import java.beans.PropertyChangeEvent;
import java.lang.reflect.Array;
import java.lang.reflect.InvocationTargetException;
import java.lang.reflect.UndeclaredThrowableException;
import java.security.PrivilegedActionException;
import java.util.ArrayList;
import java.util.Collection;
import java.util.HashMap;
import java.util.Iterator;
import java.util.List;
import java.util.Map;
import java.util.Optional;
import java.util.Set;
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;

import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.springframework.core.CollectionFactory;
import org.springframework.core.ResolvableType;
import org.springframework.core.convert.ConversionException;
import org.springframework.core.convert.ConverterNotFoundException;
import org.springframework.core.convert.TypeDescriptor;
import org.springframework.lang.UsesJava8;
import org.springframework.util.Assert;
import org.springframework.util.ClassUtils;
import org.springframework.util.ObjectUtils;
import org.springframework.util.StringUtils;

/**
 * A basic {link ConfigurablePropertyAccessor} that provides the necessary
 * infrastructure for all typical use cases.
 *
 * This accessor will convert collection and array values to the corresponding
 * target collections or arrays, if necessary. Custom property editors that deal
 * with collections or arrays can either be written via PropertyEditor's
 * {code setValue}, or against a comma-delimited String via {code setAsText},
 * as String arrays are converted in such a format if the array itself is not
 * assignable.
 *
 * @author Juergen Hoeller
 * @author Stephane Nicoll
 * @author Rod Johnson
 * @author Rob Harrop
 * @since 4.2
 * @see #registerCustomEditor
 * @see #setPropertyValues
 * @see #setPropertyValue
 * @see #getPropertyValue
 * @see #getPropertyType
 * @see BeanWrapper
 * @see PropertyEditorRegistrySupport
 */
public abstract class AbstractNestablePropertyAccessor extends AbstractPropertyAccessor {

    /**
     * We'll create a lot of these objects, so we don't want a new logger every time.
     */
    private static final Log logger = LogFactory.getLog(AbstractNestablePropertyAccessor.class);

    private static final Class<?> javaUtilOptionalClass = null;

    static {
        try {
            javaUtilOptionalClass =


ClassUtils.forName("java.util.Optional", AbstractNestablePropertyAccessor.class.getClassLoader());
}
catch (ClassNotFoundException ex) {
// Java 8 not available - Optional references simply not supported then.
}
}

private int autoGrowCollectionLimit = Integer.MAX_VALUE;

Object wrappedObject;

private String nestedPath = "";

Object rootObject;

/** Map with cached nested Accessors: nested path -> Accessor instance */
private Map<String, AbstractNestablePropertyAccessor> nestedPropertyAccessors;

/**
 * Create a new empty accessor. Wrapped instance needs to be set afterwards.
 * Registers default editors.
 * @see #setWrappedInstance
 */
protected AbstractNestablePropertyAccessor() {
    this(true);
}

/**
 * Create a new empty accessor. Wrapped instance needs to be set afterwards.
 * @param registerDefaultEditors whether to register default editors
 * (can be suppressed if the accessor won't need any type conversion)
 * @see #setWrappedInstance
 */
protected AbstractNestablePropertyAccessor(boolean registerDefaultEditors) {
    if (registerDefaultEditors) {
        registerDefaultEditors();
    }
    this.typeConverterDelegate = new TypeConverterDelegate(this);
}

/**
 * Create a new accessor for the given object.
 * @param object object wrapped by this accessor
 */
protected AbstractNestablePropertyAccessor(Object object) {
    registerDefaultEditors();
}
setWrappedInstance(object);
}

/**
 * Create a new accessor, wrapping a new instance of the specified class.
 * @param clazz class to instantiate and wrap
 */
protected AbstractNestablePropertyAccessor(Class<? super T> clazz) {
    registerDefaultEditors();
    setWrappedInstance(BeanUtils.instantiateClass(clazz));
}

/**
 * Create a new accessor for the given object,
 * registering a nested path that the object is in.
 * @param object object wrapped by this accessor
 * @param nestedPath the nested path of the object
 * @param rootObject the root object at the top of the path
 */
protected AbstractNestablePropertyAccessor(Object object, String nestedPath, Object rootObject) {
    registerDefaultEditors();
    setWrappedInstance(object, nestedPath, rootObject);
}

/**
 * Create a new accessor for the given object,
 * registering a nested path that the object is in.
 * @param object object wrapped by this accessor
 * @param nestedPath the nested path of the object
 * @param parent the containing accessor (must not be null)
 */
protected AbstractNestablePropertyAccessor(Object object, String nestedPath, AbstractNestablePropertyAccessor parent) {
    setWrappedInstance(object, nestedPath, parent.getWrappedInstance());
    setExtractOldValueForEditor(parent.isExtractOldValueForEditor());
    setAutoGrowNestedPaths(parent.isAutoGrowNestedPaths());
    setAutoGrowCollectionLimit(parent.getAutoGrowCollectionLimit());
    setConversionService(parent.getConversionService());
}

/**
 * Specify a limit for array and collection auto-growing.
 * <p>Default is unlimited on a plain accessor.
 */
public void setAutoGrowCollectionLimit(int autoGrowCollectionLimit) {
    this.autoGrowCollectionLimit = autoGrowCollectionLimit;
}
/**
 * Return the limit for array and collection auto-growing.
 */
public int getAutoGrowCollectionLimit() {
    return this.autoGrowCollectionLimit;
}

/**
 * Switch the target object, replacing the cached introspection results only
 * if the class of the new object is different to that of the replaced object.
 * @param object the new target object
 */
public void setWrappedInstance(Object object) {
    setWrappedInstance(object, "", null);
}

/**
 * Switch the target object, replacing the cached introspection results only
 * if the class of the new object is different to that of the replaced object.
 * @param object the new target object
 * @param nestedPath the nested path of the object
 * @param rootObject the root object at the top of the path
 */
public void setWrappedInstance(Object object, String nestedPath, Object rootObject) {
    Assert.notNull(object, "Target object must not be null");
    if (object.getClass() == java.util.Optional.class) {
        this.wrappedObject = OptionalUnwrapper.unwrap(object);
    } else {
        this.wrappedObject = object;
    }
    this.nestedPath = (nestedPath != null ? nestedPath : "");
    this.rootObject = (!"".equals(this.nestedPath) ? rootObject : this.wrappedObject);
    this.nestedPropertyAccessors = null;
    this.typeConverterDelegate = new TypeConverterDelegate(this, this.wrappedObject);
}

public final Object getWrappedInstance() {
    return this.wrappedObject;
}

public final Class<?> getWrappedClass() {
    return (this.wrappedObject != null ? this.wrappedObject.getClass() : null);
}

/**
 * Return the nested path of the object wrapped by this accessor.
 */

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public final String getNestedPath() {
    return this.nestedPath;
}

/**
 * Return the root object at the top of the path of this accessor.
 * @see #getNestedPath
 */
public final Object getRootInstance() {
    return this.rootObject;
}

/**
 * Return the class of the root object at the top of the path of this accessor.
 * @see #getNestedPath
 */
public final Class<?> getRootClass() {
    return (this.rootObject != null ? this.rootObject.getClass() : null);
}

@Override
public void setPropertyValue(String propertyName, Object value) throws BeansException {
    AbstractNestablePropertyAccessor nestedPa;
    try {
        nestedPa = getPropertyAccessorForPropertyPath(propertyName);
    } catch (NotReadablePropertyException ex) {
        throw new NotWritablePropertyException(getRootClass(), this.nestedPath + propertyName,
                "Nested property in path " + propertyName + " does not exist", ex);
    }
    PropertyTokenHolder tokens = getPropertyNameTokens(getFinalPath(nestedPa, propertyName));
    nestedPa.setPropertyValue(tokens, new PropertyValue(propertyName, value));
}

@Override
public void setPropertyValue(PropertyValue pv) throws BeansException {
    PropertyTokenHolder tokens = (PropertyTokenHolder) pv.resolvedTokens;
    if (tokens == null) {
        String propertyName = pv.getName();
        AbstractNestablePropertyAccessor nestedPa;
        try {
            nestedPa = getPropertyAccessorForPropertyPath(propertyName);
        } catch (NotReadablePropertyException ex) {
            throw new NotWritablePropertyException(getRootClass(), this.nestedPath + propertyName,
                    "Nested property in path " + propertyName + " does not exist", ex);
        }
    }
    }
tokens = getPropertyNameTokens(getFinalPath(nestedPa, propertyName));
if (nestedPa == this) {
    pv.getOriginalPropertyValue().resolvedTokens = tokens;
    nestedPa.setPropertyValue(tokens, pv);
} else {
    setPropertyValue(tokens, pv);
}

protected void setPropertyValue(PropertyTokenHolder tokens, PropertyValue pv) throws BeansException {
    if (tokens.keys != null) {
        processKeyedProperty(tokens, pv);
    } else {
        processLocalProperty(tokens, pv);
    }
}

@SuppressWarnings("unchecked")
private void processKeyedProperty(PropertyTokenHolder tokens, PropertyValue pv) {
    Object propValue = getPropertyHoldingValue(tokens);
    String lastKey = tokens.keys[tokens.keys.length - 1];

    if (propValue.getClass().isArray()) {
        PropertyHandler ph = getLocalPropertyHandler(tokens.actualName);
        Class<?> requiredType = propValue.getClass().getComponentType();
        int arrayIndex = Integer.parseInt(lastKey);
        Object oldValue = null;
        try {
            if (isExtractOldValueForEditor() && arrayIndex < Array.getLength(propValue)) {
                oldValue = Array.get(propValue, arrayIndex);
            }
            Object convertedValue = convertIfNecessary(tokens.canonicalName, oldValue, pv.getValue(),
                requiredType, ph.nested(tokens.keys.length));
            int length = Array.getLength(propValue);
            if (arrayIndex >= length && arrayIndex < this.autoGrowCollectionLimit) {
                Class<?> componentType = propValue.getClass().getComponentType();
                Object newArray = Array.newInstance(componentType, arrayIndex + 1);
                System.arraycopy(propValue, 0, newArray, 0, length);
                setPropertyValue(tokens.actualName, newArray);
                propValue = getPropertyValue(tokens.actualName);
            }
            Array.set(propValue, arrayIndex, convertedValue);
        } catch (IndexOutOfBoundsException ex) {
            throw new InvalidPropertyException(getRootClass(), this.nestedPath + tokens.canonicalName,
                ex.getMessage(), this.nestedPath + tokens.canonicalName, this.nestedPath + tokens.canonicalName);
        }
    } else {
        processLocalProperty(tokens, pv);
    }
}
"Invalid array index in property path " + tokens.canonicalName + ":");
}

else if (propValue instanceof List) {
    PropertyHandler ph = getLocalPropertyHandler(tokens.actualName);
    Class<?> requiredType = ph.getCollectionType(tokens.keys.length);
    List<Object> list = (List<Object>) propValue;
    int index = Integer.parseInt(lastKey);
    Object oldValue = null;
    if (isExtractOldValueForEditor() && index < list.size()) {
        oldValue = list.get(index);
    }
    Object convertedValue = convertIfNecessary(tokens.canonicalName, oldValue, pv.getValue(),
    requiredType, ph.nested(tokens.keys.length));
    int size = list.size();
    if (index >= size && index < this.autoGrowCollectionLimit) {
        for (int i = size; i < index; i++) {
            try {
                list.add(null);
            } catch (NullPointerException ex) {
                throw new InvalidPropertyException(getRootClass(), this.nestedPath + tokens.canonicalName,
                "Cannot set element with index " + index + " in List of size " +
                size + ", accessed using property path" + tokens.canonicalName +
                ": List does not support filling up gaps with null elements");
            }
        }
        list.add(convertedValue);
    } else {
        try {
            list.set(index, convertedValue);
        } catch (IndexOutOfBoundsException ex) {
            throw new InvalidPropertyException(getRootClass(), this.nestedPath + tokens.canonicalName,
            "Invalid list index in property path" + tokens.canonicalName + ":", ex);
        }
    }
}

else if (propValue instanceof Map) {
    PropertyHandler ph = getLocalPropertyHandler(tokens.actualName);
    Class<?> mapKeyType = ph.getMapKeyType(tokens.keys.length);
    Class<?> mapValueType = ph.getMapValueType(tokens.keys.length);
    Map<Object, Object> map = (Map<Object, Object>) propValue;
    // IMPORTANT: Do not pass full property name in here - property editors
    // must not kick in for map keys but rather only for map values.
TypeDescriptor typeDescriptor = TypeDescriptor.valueOf(mapKeyType);
Object convertedMapKey = convertIfNecessary(null, null, lastKey, mapKeyType, typeDescriptor);
Object oldValue = null;
if (isExtractOldValueForEditor()) {
    oldValue = map.get(convertedMapKey);
}
// Pass full property name and old value in here, since we want full
// conversion ability for map values.
Object convertedMapValue = convertIfNecessary(tokens.canonicalName, oldValue, pv.getValue(),
mapValueType, ph.nested(tokens.keys.length));
map.put(convertedMapKey, convertedMapValue);
}
else {
    throw new InvalidPropertyException(getRootClass(), this.nestedPath + tokens.canonicalName,
    "Property referenced in indexed property path " + tokens.canonicalName + 
    " is neither an array nor a List nor a Map; returned value was [" + propValue + "]");
}
}
}

private Object getPropertyHoldingValue(PropertyTokenHolder tokens) {
    // Apply indexes and map keys: fetch value for all keys but the last one.
    PropertyTokenHolder getterTokens = new PropertyTokenHolder();
    getterTokens.canonicalName = tokens.canonicalName;
    getterTokens.actualName = tokens.actualName;
    getterTokens.keys = new String[tokens.keys.length - 1];
    System.arraycopy(tokens.keys, 0, getterTokens.keys, 0, tokens.keys.length - 1);
    Object propValue;
    try {
        propValue = getPropertyValue(getterTokens);
    }
    catch (NotReadablePropertyException ex) {
        throw new NotWritablePropertyException(getRootClass(), this.nestedPath + tokens.canonicalName,
        "Cannot access indexed value in property referenced " + 
        "in indexed property path " + tokens.canonicalName + ",", ex);
    }
    if (propValue == null) {
        // null map value case
        if (isAutoGrowNestedPaths()) {
            int lastKeyIndex = tokens.canonicalName.lastIndexOf('[');
            getterTokens.canonicalName = tokens.canonicalName.substring(0, lastKeyIndex);
            getterTokens.keys = tokens.keys.substring(0, lastKeyIndex);
            propValue = setDefaultValue(getterTokens);
        }
        else {
            throw new NullValueInNestedPathException(getRootClass(), this.nestedPath + tokens.canonicalName,
            "Cannot access indexed value in property referenced ") +
private void processLocalProperty(PropertyTokenHolder tokens, PropertyValue pv) {
    PropertyHandler ph = getLocalPropertyHandler(tokens.actualName);
    if (ph == null || !ph.isWritable()) {
        if (pv.isOptional()) {
            if (logger.isDebugEnabled()) {
                logger.debug("Ignoring optional value for property '" + tokens.actualName + "' - property not found on bean class ": + getRootClass().getVersion() + "])");
            }
            return;
        } else {
            throw createNotWritablePropertyException(tokens.canonicalName);
        }
    }

    Object oldValue = null;
    try {
        Object originalValue = pv.getValue();
        Object valueToApply = originalValue;
        if (!Boolean.FALSE.equals(pv.conversionNecessary)) {
            if (pv.isConverted()) {
                valueToApply = pv.getConvertedValue();
            } else {
                if (isExtractOldValueForEditor() && ph.isReadable()) {
                    try {
                        oldValue = ph.getValue();
                    } catch (Exception ex) {
                        if (ex instanceof PrivilegedActionException) {
                            ex = ((PrivilegedActionException) ex).getException();
                        }
                    }
                    if (logger.isDebugEnabled()) {
                        logger.debug("Could not read previous value of property '" + this.nestedPath + tokens.canonicalName + "]", ex);
                    }
                }
                valueToApply = convertForProperty(
                        tokens.canonicalName, oldValue, originalValue, ph.toTypeDescriptor());
            }
        }
        pv.getOriginalPropertyValue().conversionNecessary = (valueToApply != originalValue);
ph.setValue(this.wrappedObject, valueToApply);
}
catch (TypeMismatchException ex) {
    throw ex;
}
catch (InvocationTargetException ex) {
    PropertyChangeEvent propertyChangeEvent = new PropertyChangeEvent(
        this.rootObject, this.nestedPath + tokens.canonicalName, oldValue, pv.getValue());
    if (ex.getTargetException() instanceof ClassCastException) {
        throw new TypeMismatchException(propertyChangeEvent, ph.getPropertyType(), ex.getTargetException());
    } else {
        Throwable cause = ex.getTargetException();
        if (cause instanceof UndeclaredThrowableException) {
            // May happen e.g. with Groovy-generated methods
            cause = cause.getCause();
        }
        throw new MethodInvocationException(propertyChangeEvent, cause);
    }
}

@Override
public Class<?> getPropertyType(String propertyName) throws BeansException {
    try {
        PropertyHandler ph = getPropertyHandler(propertyName);
        if (ph != null) {
            return ph.getPropertyType();
        } else {
            // Maybe an indexed/mapped property...
            Object value = getPropertyValue(propertyName);
            if (value != null) {
                return value.getClass();
            } else {
                // Check to see if there is a custom editor,
                // which might give an indication on the desired target type.
                Class<?> editorType = guessPropertyTypeFromEditors(propertyName);
                if (editorType != null) {
                    return editorType;
                }
            }
        }
    }
    return null;
}
catch (InvalidPropertyException ex) {
  // Consider as not determinable.
  return null;
}

@Override
public TypeDescriptor getPropertyTypeDescriptor(String propertyName) throws BeansException {
  try {
    AbstractNestablePropertyAccessor nestedPa = getPropertyAccessorForPropertyPath(propertyName);
    String finalPath = getFinalPath(nestedPa, propertyName);
    PropertyTokenHolder tokens = getPropertyNameTokens(finalPath);
    PropertyHandler ph = nestedPa.getLocalPropertyHandler(tokens.actualName);
    if (ph != null) {
      if (tokens.keys != null) {
        if (ph.isReadable() || ph.isWritable()) {
          return ph.nested(tokens.keys.length);
        }
        }
      }
    if (tokens.keys != null) {
      if (ph.isReadable() && ph.isWritable()) {
        return ph.toTypeDescriptor();
      }
    }
    }
  }
  catch (InvalidPropertyException ex) {
    // Consider as not determinable.
    return null;
  }

@Override
public boolean isReadableProperty(String propertyName) {
  try {
    PropertyHandler ph = getPropertyHandler(propertyName);
    if (ph != null) {
      return ph.isReadable();
    }
    else {
      // Maybe an indexed/mapped property...
      try {
        return true;
      }
      catch (InvalidPropertyException ex) {
        // Cannot be evaluated, so can't be readable.
      }
    }
    }
  }

}
@Override
public boolean isWritableProperty(String propertyName) {
    try {
        PropertyHandler ph = getPropertyHandler(propertyName);
        if (ph != null) {
            return ph.isWritable();
        } else {
            // Maybe an indexed/mapped property...
            getPropertyValue(propertyName);
            return true;
        }
    } catch (InvalidPropertyException ex) {
        // Cannot be evaluated, so can't be writable.
    }
    return false;
}

private Object convertIfNecessary(String propertyName, Object oldValue, Object newValue, Class<?> requiredType,
        TypeDescriptor td) throws TypeMismatchException {
    try {
        return this.typeConverterDelegate.convertIfNecessary(propertyName, oldValue, newValue, requiredType, td);
    } catch (ConverterNotFoundException ex) {
        PropertyChangeEvent pce =
                new PropertyChangeEvent(this.rootObject, this.nestedPath + propertyName, oldValue, newValue);
        throw new ConversionNotSupportedException(pce, td.getType(), ex);
    } catch (ConversionException ex) {
        PropertyChangeEvent pce =
                new PropertyChangeEvent(this.rootObject, this.nestedPath + propertyName, oldValue, newValue);
        throw new TypeMismatchException(pce, requiredType, ex);
    } catch (IllegalStateException ex) {
        PropertyChangeEvent pce =
                new PropertyChangeEvent(this.rootObject, this.nestedPath + propertyName, oldValue, newValue);
        throw new ConversionNotSupportedException(pce, requiredType, ex);
    } catch (IllegalArgumentException ex) {
        PropertyChangeEvent pce =
                new PropertyChangeEvent(this.rootObject, this.nestedPath + propertyName, oldValue, newValue);
        throw new TypeMismatchException(pce, requiredType, ex);
    }
    return null;
}
protected Object convertForProperty(String propertyName, Object oldValue, Object newValue, TypeDescriptor td) throws TypeMismatchException {
    return convertIfNecessary(propertyName, oldValue, newValue, td.getType(), td);
}

@Override
public Object getPropertyValue(String propertyName) throws BeansException {
    AbstractNestablePropertyAccessor nestedPa = getPropertyAccessorForPropertyPath(propertyName);
    PropertyTokenHolder tokens = getPropertyNameTokens(getFinalPath(nestedPa, propertyName));
    return nestedPa.getPropertyValue(tokens);
}

@SuppressWarnings("unchecked")
protected Object getPropertyValue(PropertyTokenHolder tokens) throws BeansException {
    String propertyName = tokens.canonicalName;
    String actualName = tokens.actualName;
    PropertyHandler ph = getLocalPropertyHandler(actualName);
    if (ph == null || !ph.isReadable()) {
        throw new NotReadablePropertyException(getRootClass(), this.nestedPath + propertyName);
    }
    try {
        Object value = ph.getValue();
        if (tokens.keys != null) {
            if (value == null) {
                if (isAutoGrowNestedPaths()) {
                    value = setDefaultValue(tokens.actualName);
                } else {
                    throw new NullValueInNestedPathException(getRootClass(), this.nestedPath + propertyName,
                            "Cannot access indexed value of property referenced in indexed "+
                            "property path "+ propertyName + ": returned null");
                }
            } else if (value.getClass().isArray()) {
                int index = Integer.parseInt(key);
            }
        }
    } catch (Exception e) {
        throw new NullValueInNestedPathException(getRootClass(), this.nestedPath + propertyName,
                "Cannot access indexed value of property referenced in indexed "+
                "property path "+ propertyName + ": returned null");
    }
    String indexedPropertyName = tokens.actualName;
    // apply indexes and map keys
    for (int i = 0; i < tokens.keys.length; i++) {
        String key = tokens.keys[i];
        if (value == null) {
            throw new NullValueInNestedPathException(getRootClass(), this.nestedPath + propertyName,
                    "Cannot access indexed value of property referenced in indexed "+
                    "property path "+ propertyName + ": returned null");
        } else if (value.getClass().isArray()) {
            int index = Integer.parseInt(key);
value = growArrayIfNecessary(value, index, indexedPropertyName);
value = Array.get(value, index);
}
else if (value instanceof List) {
    int index = Integer.parseInt(key);
    List<Object> list = (List<Object>) value;
    growCollectionIfNecessary(list, index, indexedPropertyName, ph, i + 1);
    value = list.get(index);
}
else if (value instanceof Set) {
    // Apply index to Iterator in case of a Set.
    Set<Object> set = (Set<Object>) value;
    int index = Integer.parseInt(key);
    if (index < 0 || index >= set.size()) {
        throw new InvalidPropertyException(getRootClass(), this.nestedPath + propertyName,
        "Cannot get element with index " + index + " from Set of size " +
        set.size() + ", accessed using property path " + propertyName + ";"
    }
    Iterator<Object> it = set.iterator();
    for (int j = 0; it.hasNext(); j++) {
        Object elem = it.next();
        if (j == index) {
            value = elem;
            break;
        }
    }
}
else if (value instanceof Map) {
    Map<Object, Object> map = (Map<Object, Object>) value;
    Class<?> mapKeyType = ph.getResolvableType().getNested(i + 1).asMap().resolveGeneric(0);
    // IMPORTANT: Do not pass full property name in here - property editors
    // must not kick in for map keys but rather only for map values.
    TypeDescriptor typeDescriptor = TypeDescriptor.valueOf(mapKeyType);
    Object convertedMapKey = convertIfNecessary(null, null, key, mapKeyType, typeDescriptor);
    value = map.get(convertedMapKey);
}
else {
    throw new InvalidPropertyException(getRootClass(), this.nestedPath + propertyName,
    "Property referenced in indexed property path " + propertyName +
    " is neither an array nor a List nor a Set nor a Map; returned value was [" + value + "]");
}
indexedPropertyName += PROPERTY_KEY_PREFIX + key + PROPERTY_KEY_SUFFIX;
}
return value;
}


"Index of out of bounds in property path " + propertyName + "", ex);}

    catch (NumberFormatException ex) {
        throw new InvalidPropertyException(getRootClass(), this.nestedPath + propertyName,
            "Invalid index in property path " + propertyName + ",", ex);
    }

    catch (TypeMismatchException ex) {
        throw new InvalidPropertyException(getRootClass(), this.nestedPath + propertyName,
            "Invalid index in property path " + propertyName + "", ex);
    }

    catch (InvocationTargetException ex) {
        throw new InvalidPropertyException(getRootClass(), this.nestedPath + propertyName,
            "Getter for property " + actualName + ", threw exception", ex);
    }

    catch (Exception ex) {
        throw new InvalidPropertyException(getRootClass(), this.nestedPath + propertyName,
            "Illegal attempt to get property " + actualName + " threw exception", ex);
    }
}

/**
 * Return the [link PropertyHandler] for the specified [code propertyName], navigating
 * if necessary. Return [code null] if not found rather than throwing an exception.
 * @param propertyName the property to obtain the descriptor for
 * @return the property descriptor for the specified property,
 * or [code null] if not found
 * @throws BeansException in case of introspection failure
 */
protected PropertyHandler getPropertyHandler(String propertyName) throws BeansException {
    Assert.notNull(propertyName, "Property name must not be null");
    AbstractNestablePropertyAccessor nestedPa = getPropertyAccessorForPropertyPath(propertyName);
    return nestedPa.getLocalPropertyHandler(getFinalPath(nestedPa, propertyName));
}

/**
 * Return a [link PropertyHandler] for the specified local [code propertyName]. Only
 * used to reach a property available in the current context.
 * @param propertyName the name of a local property
 * @return the handler for that property or [code null] if it has not been found
 */
protected abstract PropertyHandler getLocalPropertyHandler(String propertyName);

/**
 * Create a new nested property accessor instance.
 * Can be overridden in subclasses to create a PropertyAccessor subclass.
 * @param object object wrapped by this PropertyAccessor
 * @param nestedPath the nested path of the object
 */
protected abstract AbstractNestablePropertyAccessor newNestedPropertyAccessor(Object object, String nestedPath);

protected abstract NotWritablePropertyException createNotWritablePropertyException(String propertyName);

private Object growArrayIfNecessary(Object array, int index, String name) {
    if (!isAutoGrowNestedPaths()) {
        return array;
    }
    int length = Array.getLength(array);
    if (index >= length && index < this.autoGrowCollectionLimit) {
        ComponentType = array.getClass().getComponentType();
        Object newArray = Array.newInstance(componentType, index + 1);
        System.arraycopy(array, 0, newArray, 0, length);
        for (int i = length; i < Array.getLength(newArray); i++) {
            Array.set(newArray, i, newValue(componentType, null, name));
        }
        setPropertyValue(name, newArray);
        return getPropertyValue(name);
    } else {
        return array;
    }
}

private void growCollectionIfNecessary(Collection<Object> collection, int index, String name, PropertyHandler ph, int nestingLevel) {
    if (!isAutoGrowNestedPaths()) {
        return;
    }
    int size = collection.size();
    if (index >= size && index < this.autoGrowCollectionLimit) {
        Class<? super elementType = ph.getResolvableType().getNested(nestingLevel).asCollection().resolveGeneric();
        if (elementType != null) {
            for (int i = collection.size(); i < index + 1; i++) {
                collection.add(newValue(elementType, null, name));
            }
        }
    }
}
/**
 * Get the last component of the path. Also works if not nested.
 * @param pa property accessor to work on
 * @param nestedPath property path we know is nested
 * @return last component of the path (the property on the target bean)
 */
protected String getFinalPath(AbstractNestablePropertyAccessor pa, String nestedPath) {
    if (pa == this) {
        return nestedPath;
    }
    return nestedPath.substring(PropertyAccessorUtils.getLastNestedPropertySeparatorIndex(nestedPath) + 1);
}

/**
 * Recursively navigate to return a property accessor for the nested property path.
 * @param propertyPath property path, which may be nested
 * @return a property accessor for the target bean
 */
@SuppressWarnings("unchecked") // avoid nested generic
protected AbstractNestablePropertyAccessor getPropertyAccessorForPropertyPath(String propertyPath) {
    int pos = PropertyAccessorUtils.getFirstNestedPropertySeparatorIndex(propertyPath);
    // Handle nested properties recursively.
    if (pos > -1) {
        String nestedProperty = propertyPath.substring(0, pos);
        String nestedPath = propertyPath.substring(pos + 1);
        AbstractNestablePropertyAccessor nestedPa = getNestedPropertyAccessor(nestedProperty);
        return nestedPa.getPropertyAccessorForPropertyPath(nestedPath);
    } else {
        return this;
    }
}

/**
 * Retrieve a Property accessor for the given nested property.
 * Create a new one if not found in the cache.
 * Note: Caching nested PropertyAccessors is necessary now,
 * to keep registered custom editors for nested properties.
 * @param nestedProperty property to create the PropertyAccessor for
 * @return the PropertyAccessor instance, either cached or newly created
 */
private AbstractNestablePropertyAccessor getNestedPropertyAccessor(String nestedProperty) {
    if (this.nestedPropertyAccessors == null) {
        this.nestedPropertyAccessors = new HashMap<String, AbstractNestablePropertyAccessor>();
    }
    // Get value of bean property.
    PropertyTokenHolder tokens = getPropertyNameTokens(nestedProperty);
    String canonicalName = tokens.canonicalName;
Object value = getPropertyValue(tokens);
if (value == null || (value.getClass() == javaUtilOptionalClass && OptionalUnwrapper.isEmpty(value))) {
    if (isAutoGrowNestedPaths()) {
        value = setDefaultValue(tokens);
    } else {
        throw new NullValueInNestedPathException(getRootClass(), this.nestedPath + canonicalName);
    }
}

// Lookup cached sub-PropertyAccessor, create new one if not found.
AbstractNestablePropertyAccessor nestedPa = this.nestedPropertyAccessors.get(canonicalName);
if (nestedPa == null || nestedPa.getWrappedInstance() !=
    (value.getClass() == javaUtilOptionalClass ? OptionalUnwrapper.unwrap(value) : value)) {
    if (logger.isTraceEnabled()) {
        logger.trace("Creating new nested " + getClass().getSimpleName() + " for property " + canonicalName + ");
    }
    nestedPa = new NestedPropertyAccessor(value, this.nestedPath + canonicalName +
        NESTED_PROPERTY_SEPARATOR);
    // Inherit all type-specific PropertyEditors.
    copyDefaultEditorsTo(nestedPa);
    copyCustomEditorsTo(nestedPa, canonicalName);
    this.nestedPropertyAccessors.put(canonicalName, nestedPa);
} else {
    if (logger.isTraceEnabled()) {
        logger.trace("Using cached nested property accessor for property " + canonicalName + ");
    }
}
return nestedPa;

private Object setDefaultValue(String propertyName) {
    PropertyTokenHolder tokens = new PropertyTokenHolder();
    tokens.actualName = propertyName;
    tokens.canonicalName = propertyName;
    return setDefaultValue(tokens);
}

private Object setDefaultValue(PropertyTokenHolder tokens) {
    PropertyValue pv = createDefaultPropertyValue(tokens);
    setPropertyValue(tokens, pv);
    return getPropertyValue(tokens);
}

private PropertyValue createDefaultPropertyValue(PropertyTokenHolder tokens) {
    TypeDescriptor desc = getPropertyTypeDescriptor(tokens.canonicalName);
    Class<? extends TypeDescriptor> type = desc.getType();
if (type == null) {
    throw new NullValueInNestedPathException(getRootClass(), this.nestedPath + tokens.canonicalName, 
    "Could not determine property type for auto-growing a default value");
} 
Object defaultValue = newValue(type, desc, tokens.canonicalName);
return new PropertyValue(tokens.canonicalName, defaultValue);
}

private Object newValue(Class<?> type, TypeDescriptor desc, String name) {
    try {
        if (type.isArray()) {
            Class<?> componentType = type.getComponentType();
            // TODO - only handles 2-dimensional arrays
            if (componentType.isArray()) {
                Object array = Array.newInstance(componentType, 1);
                Array.set(array, 0, Array.newInstance(componentType.getComponentType(), 0));
                return array;
            } else {
                return Array.newInstance(componentType, 0);
            }
        } else if (Collection.class.isAssignableFrom(type)) {
            TypeDescriptor elementDesc = (desc != null ? desc.getElementTypeDescriptor() : null);
            return CollectionFactory.createCollection(type, (elementDesc != null ? elementDesc.getType() : null), 16);
        } else if (Map.class.isAssignableFrom(type)) {
            TypeDescriptor keyDesc = (desc != null ? desc.getMapKeyTypeDescriptor() : null);
            return CollectionFactory.createMap(type, (keyDesc != null ? keyDesc.getType() : null), 16);
        } else {
            return BeanUtils.instantiate(type);
        }
    } catch (Throwable ex) {
        throw new NullValueInNestedPathException(getRootClass(), this.nestedPath + name, 
        "Could not instantiate property type "] + type.getName() + "] to auto-grow nested property path", ex);
    }
}

/**
 * Parse the given property name into the corresponding property name tokens.
 * @param propertyName the property name to parse
 * @return representation of the parsed property tokens
 */
private PropertyTokenHolder getPropertyNameTokens(String propertyName) {
    PropertyTokenHolder tokens = new PropertyTokenHolder();
    String actualName = null;
List<String> keys = new ArrayList<String>(2);
int searchIndex = 0;
while (searchIndex != -1) {
int keyStart = propertyName.indexOf(PROPERTY_KEY_PREFIX, searchIndex);
searchIndex = -1;
if (keyStart != -1) {
int keyEnd = propertyName.indexOf(PROPERTY_KEY_SUFFIX, keyStart +
PROPERTY_KEY_PREFIX.length());
if (keyEnd != -1) {
if (actualName == null) {
actualName = propertyName.substring(0, keyStart);
}
String key = propertyName.substring(keyStart + PROPERTY_KEY_PREFIX.length(), keyEnd);
if (key.length() > 1 && (key.startsWith("'") && key.endsWith("'")) ||
(key.startsWith("\"") && key.endsWith("\""))) {
key = key.substring(1, key.length() - 1);
}
keys.add(key);
searchIndex = keyEnd + PROPERTY_KEY_SUFFIX.length();
}
}
}
tokens.actualName = (actualName != null ? actualName : propertyName);
tokens.canonicalName = tokens.actualName;
if (!keys.isEmpty()) {
tokens.canonicalName += PROPERTY_KEY_PREFIX +
StringUtils.collectionToDelimitedString(keys, PROPERTY_KEY_SUFFIX + PROPERTY_KEY_PREFIX) +
PROPERTY_KEY_SUFFIX;
tokens.keys = StringUtils.toStringArray(keys);
}
return tokens;
}
@Override
public String toString() {
StringBuilder sb = new StringBuilder(getClass().getName());
if (this.wrappedObject != null) {
sb.append(": wrapping object [").append(ObjectUtils.identityToString(this.wrappedObject)).append("]");
}
else {
sb.append(": no wrapped object set");
}
return sb.toString();
}

protected abstract static class PropertyHandler {

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private final Class<?> propertyType;

private final boolean readable;

private final boolean writable;

public PropertyHandler(Class<?> propertyType, boolean readable, boolean writable) {
    this.propertyType = propertyType;
    this.readable = readable;
    this.writable = writable;
}

public Class<?> getPropertyType() {
    return this.propertyType;
}

public boolean isReadable() {
    return this.readable;
}

public boolean isWritable() {
    return this.writable;
}

public abstract TypeDescriptor toTypeDescriptor();

public abstract ResolvableType getResolvableType();

public Class<?> getMapKeyType(int nestingLevel) {
    return getResolvableType().getNested(nestingLevel).asMap().resolveGeneric(0);
}

public Class<?> getMapValueType(int nestingLevel) {
    return getResolvableType().getNested(nestingLevel).asMap().resolveGeneric(1);
}

public Class<?> getCollectionType(int nestingLevel) {
    return getResolvableType().getNested(nestingLevel).asCollection().resolveGeneric();
}

public abstract TypeDescriptor nested(int level);

public abstract Object getValue() throws Exception;

public abstract void setValue(Object object, Object value) throws Exception;
}
protected static class PropertyTokenHolder {

    public String canonicalName;

    public String actualName;

    public String[] keys;

}

/**
 * Inner class to avoid a hard dependency on Java 8.
 */
@UsesJava8
private static class OptionalUnwrapper {

    public static Object unwrap(Object optionalObject) {
        Optional<?> optional = (Optional<?>) optionalObject;
        Assert.isTrue(optional.isPresent(), "Optional value must be present");
        Object result = optional.get();
        Assert.isTrue(!(result instanceof Optional), "Multi-level Optional usage not supported");
        return result;
    }

    public static boolean isEmpty(Object optionalObject) {
        return !((Optional<?>) optionalObject).isPresent();
    }

}

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*/

package org.springframework.amqp;

/**
* Runtime wrapper for an authentication exception.
*
* @author Gary Russell
* @since 1.2.1
*
*/
@SuppressWarnings("serial")
public class AmqpAuthenticationException extends AmqpException {

    public AmqpAuthenticationException(Throwable cause) {
        super(cause);
    }
}

1.526 jetty-http 8.1.7.v20120910
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//
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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.EofException;
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
protected Buffer _date;

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 = null;
    _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");

    if (_buffer!=null && _buffer.length()==0)
    {
        _buffers.returnBuffer(_buffer);
        _buffer=null;
    }

    if (_header!=null && _header.length()==0)
    {
        _buffers.returnBuffer(_header);
        _header=null;
    }
}
_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)
        _buffer=_buffers.getBuffer();
    return _buffer.capacity();
}

/* ............................................................... */
/**
 * @param contentBufferSize The contentBufferSize to set.
 */
public void increaseContentBufferSize(int contentBufferSize)
{
    if (_buffer==null)
        _buffer=_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;
}

/* ----------------------------------------------- */
/**
 * @return Returns the head.
 */
public boolean isHead()
{
    return _head;
}

/* ----------------------------------------------- */
public void setContentLength(long value)
if (value<0)
    _contentLength=HttpTokens.UNKNOWN_CONTENT;
else
    _contentLength=value;
}

/**
 * @param head The head to set.
 */
public void setHead(boolean head)
{
    _head = head;
}

/**
 * @return <code>false</code> if the connection should be closed after a request has been read,
 *          <code>true</code> if it should be used for additional requests.
 */
public boolean isPersistent()
{
    return _persistent!=null
        ? _persistent.booleanValue()
        : (isRequest()?true:_version>HttpVersions.HTTP_1_0_ORDINAL);
}

/**
 * @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;
}

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;
}

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;
    }
}
public boolean isWritten()
{
    return _contentWritten>0;
}

public boolean isAllContentWritten()
{
    return _contentLength>=0 && _contentWritten>=_contentLength;
}

public abstract void completeHeader(HttpFields fields, boolean allContentAdded) throws IOException;

public abstract int flushBuffer() throws IOException;

public void flush(long maxIdleTime) throws IOException
{


}
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;
}

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package org.springframework.data.mongodb;

import org.springframework.util.StringUtils;

/**
 * Helper class featuring helper methods for working with MongoDB collections.
 * <p/>
 * Mainly intended for internal use within the framework.
 * <p/>
 * @author Thomas Risberg
 * @since 1.0
 * /
 * public abstract class MongoCollectionUtils {

 /**
 * Private constructor to prevent instantiation.
 * /
 * private MongoCollectionUtils() {

 }

 /**
 * Obtains the collection name to use for the provided class
 * <p/>
 * @param entityClass The class to determine the preferred collection name for
 * @return The preferred collection name
 * /
 * public static String getPreferredCollectionName(Class<? super entityClass> entityClass) {
 * return StringUtils.uncapitalize(entityClass.getSimpleName());
 * }

 */

1.532 jetty-servlet 8.1.7.v20120910
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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.ByteArrayBuffer;
import org.eclipse.jetty.io.WriterOutputStream;
import org.eclipse.jetty.server.AbstractHttpConnection;
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.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. :
* 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
* file 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 max_cached_files=getInitInt("maxCachedFiles", -2);
if (resourceCache!=null)
{
    if (max_cache_size!=-1 || max_cached_file_size!= -2 || max_cached_files!=-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 && max_cached_files>0)
{
    _cache= new ResourceCache(null,this._mimeTypes._useFileMappedBuffer);
if (max_cache_size>0)
    _cache.setMaxCacheSize(max_cache_size);
if (max_cached_file_size>=-1)
    _cache.setMaxCachedFileSize(max_cached_file_size);
if (max_cached_files>=-1)
    _cache.setMaxCachedFiles(max_cached_files);
}
}
}

try {

    LOG.warn(Log.EXCEPTION,e);
    throw new UnavailableException(e.toString());
}

ervletHandler= (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.<br/>
 * @param servletContext The servletContext of this servlet.<br/>
 * @return the jetty's ContextHandler for this servletContext.<br/>
 */
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
cpublic String getInitParameter(String name)
{
    String value=getServletContext().getInitParameter("org.eclipse.jetty.servlet.Default."+name);
    if (value==null)
        value=super.getInitParameter(name);
    return value;
}

/*@Override*/
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");
}

/*@Override*/
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*/
@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();
            pathInfo=request.getPathInfo();
        }
    }
    else
    {
        included = Boolean.FALSE;
        servletPath = _pathInfoOnly?"/":request.getServletPath();
    }
}
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
Resource resource=null;
HttpContent content=null;

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?" content":""));

// 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!=null&&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.setContentType(0);
            String q=request.getQueryString();
            if (q!=null&&q.length()!=0)
                response.sendRedirect(response.encodeRedirectURL(_servletContext.getContextPath()+"?"+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(InvalidArgumentException 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
{
doit(request, response);
}

/* (non-Javadoc)
* @see javax.servlet.http.HttpServlet#doTrace(javax.servlet.http.HttpServletRequest,
* javax.servlet.http.HttpServletResponse)
*/
@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.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.
 * @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);
        return false;
    }
}
}
}
catch(InvalidArgumentException iae) {
    if(!response.isCommitted())
        response.sendRedirect(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.getContentType();
}

// 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 ( 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.setContentType(content.getContentType().toString());

if (response instanceof Response)
{
    Response r = (Response) response;
    String s = r.toString();

    if (s != 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.setContentLength((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, HttpHeadersVALUES.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
class HttpServlet
{
    if (_cache!=null)
        _cache.flushCache();
    super.destroy();
}
}

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1.537 httpcomponents-httpcore-nio 4.2.2

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1.542 jul-to-slf4j 1.7.25

1.543 jackson-core 2.9.5
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1.544 activiti-bpmn-model 6.0.0

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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");

protected final static String __IMMUTABLE = "IMMUTABLE",
__READONLY = "READONLY",
__READWRITE = "READWRITE",
__VOLATILE = "VOLATILE";

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 ByteArrayBuffer duplicate(int access)
{
    Buffer b=this.buffer();
    if (this instanceof Buffer.CaseInsensitive || b instanceof Buffer.CaseInsensitive)
        return new ByteArrayBuffer.CaseInsensitive(asArray(), 0, length(), access);
    else
        return new ByteArrayBuffer(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;
}

public void 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;
        }
    }
    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;
    }
}
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)
    {
        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)
        {
            return _hash;
        }
    }
_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++)
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");

    setGetIndex(getIndex);
}
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(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;
            }
        }
    }
}
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, getBeginIndex(), 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;
    }
}
clear();

/* ------------------------------------------------------------------ */

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=-1;
    }
  return total;
}
}

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XOM

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Table of Contents

1. GNU LESSER GENERAL PUBLIC LICENSE
   2. Preamble
   3. TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
   4. How to Apply These Terms to Your New Libraries

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The license text is in English and appears broken in RTL as Arabic, Farsi, etc. Explicitly set the direction to override the one defined in the translation. -->

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import org.xml.sax.ErrorHandler;
import org.xml.sax.SAXParseException;

/**
 * Subinterface of {@link ErrorHandler} that allows the registered errors to be retrieved.
 * @author Arjen Poutsma
 * @since 2.0.1
 */
public interface ValidationErrorHandler extends ErrorHandler {

/**
 * Returns the errors collected by this error handler.
 * @return the errors
 */
SAXParseException[] getErrors();
}

1.564 freemarker 2.3.19

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import org.springframework.boot.autoconfigure.AutoConfigureOrder;
import org.springframework.boot.autoconfigure.EnableAutoConfiguration;
import org.springframework.boot.autoconfigure.condition.ConditionalOnClass;
import org.springframework.boot.autoconfigure.condition.ConditionalOnMissingBean;
import org.springframework.boot.autoconfigure.condition.ConditionalOnProperty;
import org.springframework.cloud.Cloud;
import org.springframework.cloud.app.ApplicationInstanceInfo;
import org.springframework.cloud.config.java.CloudScan;
import org.springframework.cloud.config.java.CloudScanConfiguration;
import org.springframework.cloud.context.annotation.Configuration;
import org.springframework.cloud.context.annotation.Import;
import org.springframework.context.annotation.Profile;
import org.springframework.core.Ordered;

/**
 * { @link EnableAutoConfiguration Auto-configuration} for Spring Cloud.
 * <p>
 * Activates when there is no bean of type { @link Cloud} is configured in the context, the
 * { @link Cloud} type (this spring-cloud) is on the classpath, and the "cloud" profile is
 * active.
 * <p>
 * Once in effect, the auto-configuration is the equivalent of adding the
 * { @link CloudScan} annotation in one of the configuration file. Specifically, it adds a
 * bean for each service bound to the application and one for
 * { @link ApplicationInstanceInfo}
 * 
 * @author Ramnivas Laddad
 * @since 1.2.0
 */
@Configuration
@Profile("cloud")
@AutoConfigureOrder(CloudAutoConfiguration.ORDER)
@ConditionalOnClass(CloudScanConfiguration.class)
@ConditionalOnMissingBean(Cloud.class)
@ConditionalOnProperty(prefix = "spring.cloud", name = "enabled", havingValue = "true",
matchIfMissing = true)
@Import(CloudScanConfiguration.class)
public class CloudAutoConfiguration {

    // Cloud configuration needs to happen early (before data, mongo etc.)
    public static final int ORDER = Ordered.HIGHEST_PRECEDENCE + 20;

}
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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#">
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<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>
You can clone with

https://github.com/apache/hive

or

https://github.com/apache/hive/archive/master.zip
Open Source Used In Cisco Kinetic for Cities 4.1.0.05396
Open Source Used In Cisco Kinetic for Cities 4.1.0.05398
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Open Source Used in Cisco Kinetic for Cities 4.1.0.05417
HIVE-11748: HivePreparedStatement's setTimestamp() does not quote value as required (Angus Smithson, reviewed by Sergio Pena)
<table>
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<tr>
<th>Line</th>
<th>Code</th>
<th>Description</th>
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<td>Copyright 2008-2015 The Apache Software Foundation</td>
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<td>This product includes Jersey (<a href="https://jersey.java.net/">https://jersey.java.net/</a>)</td>
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</table>
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Source: http://avro.apache.org

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Files: debian/*
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ConstantValue

useraction*Lorg/apache/hadoop/fs/permission/FsAction;groupactionotheraction
stickyBitZDEPRECATED_UMASK_LABELLjava/lang/String;UMASK_LABEL
DEFAULT_UMASKFSACTION_VALUES+[Lorg/apache/hadoop/fs/permission/FsAction;createImmutable1(S)Lorg/apache/hadoop/fs/permission/FsPermission;createImmutable1(S)Lorg/apache/hadoop/fs/permission/FsAction;Lorg/apache/hadoop/fs/permission/FsAction;Lorg/apache/hadoop/fs/permission/FsAction;]

Exceptions

readFields(Ljava/io/DataInput;)VinLjava/io/DataInput;readC(Ljava/io/DataInput;)Lorg/apache/hadoop/fs/permission/FsPermission;

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

getDefault0()Lorg/apache/hadoop/fs/permission/FsPermission;

dfs.umaskjava/lang/IllegalArgumentExceptionjava/lang/NumberFormatExceptionjava/lang/Object5678y9:;'length !=%

writeShort(I)Vjava/io/DataInput	readShortordinalSYMBOLappend-(Ljava/lang/String;)Ljava/lang/StringBuilder;lengthEXECUTEimplies-(Lorg/apache/hadoop/fs/permission/FsPermission;)Zreplace/(IILjava/lang/String;)Ljava/lang/StringBuilder;notandV(Lorg/apache/hadoop/fs/permission/FsAction;Lorg/apache/hadoop/fs/permission/FsAction;Lorg/apache/hadoop/fs/permission/FsAction;Lorg/apache/hadoop/fs/permission/FsAction;)

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e/hadoop/io/WritableFactories
setFactory:(Ljava/lang/Class;Lorg/apache/hadoop/io/WritableFactory;)V
values-()

setFactory:(Ljava/lang/Class;Lorg/apache/hadoop/io/WritableFactory;)V
values-()

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* Providing benchmark suite  
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<a href="https://aws.amazon.com/s3/?nc2=h_l3_sc">Amazon Simple Storage Service (S3)</a> Scalable Storage in the Cloud

<a href="https://aws.amazon.com/ebs/?nc2=h_l3_sc">Amazon Elastic Block Storage (EBS)</a> EC2 Block
Storage Volumes</a></div>

- 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
- AWS Snowball Edge - Petabyte-scale Data Transport with On-board Compute
- AWS MARKETPLACE - SoftNAS Cloud
- Cloud Protection Manager Standard Edition
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Databases

Amazon Aurora

Amazon RDS

Amazon DynamoDB

Amazon ElastiCache

Amazon Redshift

AWS Database Migration Service

AWS MARKETPLACE

SAP HANA One

Couchbase

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

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Migrate Databases with Minimal Downtime

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AWS Snowball
Petabyte-scale Data Transport

AWS Snowball Edge
Petabyte-scale Data Transport with On-board Compute

AWS Snowmobile
Exabyte-scale Data Transport

Networking & Content Delivery

Amazon VPC
Isolated Cloud Resources
Amazon CloudFront
Amazon Route 53
AWS Direct Connect
Elastic Load Balancing
AWS MARKETPLACE
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AWS CodeCommit
Developer Tools
Store Code in Private Git Repositories
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AWS Managed Services

AWS MARKETPLACE

Warewolf for Developers

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Amazon Inspector

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Host and Manage Active Directory

Amazon Cloud Directory
Create Flexible Cloud-Native Directories

AWS Key Management Service
Managed Creation and Control of Encryption Keys

AWS Organizations
Policy-based management for multiple AWS accounts

AWS Shield
DDoS Protection

AWS WAF
Filter Malicious Web Traffic

AWS Artifact

AWS MARKETPLACE

Trend Micro Deep Security

Barracuda Web Application firewall

Gemalto SafeNet
Mobile Services</a> <i class="icon-double-angle-right"></i></h6>
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double-angle-right"</i></a>
   </div>
   <div id="aws-nav-flyout-3-mobile" class="aws-nav-flyout-content" data-da="ignore-standard-impression">
   <div class="aws-nav-flyout-inner">
   <h6><a href="https://aws.amazon.com/mobile/?nc2=h_l3_ms">Mobile Services<i class="icon-double-angle-right"></i></a></h6>
   <div class="aws-link">
   <a href="https://aws.amazon.com/mobilehub/?nc2=h_l3_as">AWS Mobile Hub</a>Build, Test, and Monitor Mobile Apps</span> </a>
   </div>
   <div class="aws-link">
   <a href="https://aws.amazon.com/api-gateway/?nc2=h_l3_as">Amazon API Gateway</a>Build, Deploy, and Manage APIs</span> </a>
   </div>
   <div class="aws-link">
   <a href="https://aws.amazon.com/cognito/?nc2=h_l3_ms">Amazon Cognito</a>User Identity and App 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</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</a></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 Quickly and Easily</span> </a>
   </div>
   <div id="aws-nav-flyout-3-app" class="aws-nav-flyout-content" data-da="ignore-standard-impression">
   <div class="aws-nav-flyout-inner">
   <h6><a href="https://aws.amazon.com/products/?nc2=h_l3_db#Accelerate_your_Cloud_Success_with_Rich_Platform_Services">Application Services<i class="icon-double-angle-right"></i></a>
   </h6>
   <div class="aws-link">
   <a href="https://aws.amazon.com/step-functions/?nc2=h_l3_as">AWS Step Functions</a>Coordinate Distributed Applications</span> </a>
   </div>
   <div class="aws-link">
   <a href="https://aws.amazon.com/api-gateway/?nc2=h_l3_as">Amazon API Gateway</a>Build, Publish and Manage APIs</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</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</a></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 Quickly and Easily</span> </a>
   </div>
   <div id="aws-nav-flyout-3-app" class="aws-nav-flyout-content" data-da="ignore-standard-impression">
   <div class="aws-nav-flyout-inner">
   <h6><a href="https://aws.amazon.com/products/?nc2=h_l3_db#Accelerate_your_Cloud_Success_with_Rich_Platform_Services">Application Services<i class="icon-double-angle-right"></i></a>
   </h6>
   <div class="aws-link">
   <a href="https://aws.amazon.com/step-functions/?nc2=h_l3_as">AWS Step Functions</a>Coordinate Distributed Applications</span> </a>
   </div>
   <div class="aws-link">
   <a href="https://aws.amazon.com/api-gateway/?nc2=h_l3_as">Amazon API Gateway</a>Build, Publish and Manage APIs</span> </a>
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   <div class="aws-link">
   <a href="https://aws.amazon.com/pinpoint/?nc2=h_l3_ms">Amazon Pinpoint</a>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</a></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 Quickly and Easily</span> </a>
   </div>
Open Source Used In Cisco Kinetic for Cities 4.1.0.05540

AWS Greengrass
Local Compute, Messaging, and Sync for Devices

AWS IoT Button
Cloud Programmable Dash Button

AWS MARKETPLACE
Sirqul IoT Platform
OpenDOF IoT Router
View All Related Products

Amazon GameLift
Simple, fast, cost-effective dedicated game server hosting.

Amazon Lumberyard
A Free Cross-Platform 3D Game Engine, with Full Source, Integrated with AWS and Twitch

AWS Marketplace Software
Open Source Used In Cisco Kinetic for Cities 4.1.0.05541

Application Development

Application Servers

Application Stacks

Big Data

Databases & Caching

Network Infrastructure

Operating Systems

Security

BUSINESS SOFTWARE (845+)
Open Source Used In Cisco Kinetic for Cities 4.1.0.05542

Business Intelligence

Collaboration

Content Management

CRM

eCommerce

Education & Research

Financial Services

High Performance Computing

Media

Project Management
security and how to build secure applications. <span>Learn about the compliance programs on the AWS Cloud and establishing controls</span>.

Learn how to build scalable and reliable applications in the AWS Cloud. <span>Get answers to frequently asked technical support questions.</span>

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</div>
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Storage</h6>
<div class="aws-link">
<a href="https://aws.amazon.com/documentation/s3/?icmpid=docs_menu">Amazon S3</a></div>
</div>
<div class="aws-link">
<a href="https://aws.amazon.com/documentation/efs/?icmpid=docs_menu">Amazon EFS</a></div>
</div>
<div class="aws-link">
<a href="https://aws.amazon.com/documentation/glacier/?icmpid=docs_menu">Amazon Glacier</a></div>
</div>
<div class="aws-link">
<a href="https://aws.amazon.com/documentation/snowball/?icmpid=docs_menu">AWS Snowball</a></div>
</div>
<div class="aws-link">
<a href="https://aws.amazon.com/documentation/storage-gateway/?icmpid=docs_menu">AWS Storage Gateway</a></div>
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Database</h6>
<div class="aws-link">
<a href="https://aws.amazon.com/documentation/rds/?icmpid=docs_menu">Amazon RDS</a></div>
</div>
<div class="aws-link">
<a href="https://aws.amazon.com/documentation/dynamodb/?icmpid=docs_menu">Amazon DynamoDB</a></div>
</div>
<div class="aws-link">
<a href="https://aws.amazon.com/documentation/elasticache/?icmpid=docs_menu">Amazon ElastiCache</a></div>
</div>
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
Open Source Used In Cisco Kinetic for Cities 4.1.0.05547

AWS Application Discovery Service

AWS CodeCommit

AWS CodeBuild

AWS CodeDeploy

AWS CodePipeline

AWS X-Ray

AWS Tools & SDKs

Amazon CloudWatch

AWS CloudTrail

AWS Config
Gateway

<a href="http://docs.aws.amazon.com/cognito/devguide/?icmpid=docs_menu">Amazon Cognito</a>

AWS Device Farm

Amazon Mobile Analytics

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
Open Source Used In Cisco Kinetic for Cities 4.1.0.05552

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

<a href="https://aws.amazon.com/documentation/step-functions/?icmpid=docs_menu">AWS Step Functions</a>

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

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

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

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

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

<a href="https://aws.amazon.com/documentation/chime/">Amazon Chime</a>

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

<a href="https://aws.amazon.com/documentation/wam/?icmpid=docs_menu">Amazon WAM</a>
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
Open Source Used In Cisco Kinetic for Cities 4.1.0.05556
AWS Application Discovery Service

AWS Database Migration Service

AWS Server Migration Service

AWS Snowball

AWS Snowball Edge

AWS Snowmobile

Networking & Content Delivery

Amazon VPC

Amazon CloudFront

Amazon Route 53

AWS Direct Connect

Elastic Load Balancing

Developer Tools

AWS CodeCommit

AWS CodeBuild

AWS CodeDeploy

AWS CodePipeline

AWS X-Ray

AWS Command Line Interface

Management Tools

Amazon CloudWatch

Amazon EC2 Systems Manager
<li><a href="https://aws.amazon.com/cloudformation/?nc2=h_m1">AWS CloudFormation</a></li>
<li><a href="https://aws.amazon.com/cloudtrail/?nc2=h_m1">AWS CloudTrail</a></li>
<li><a href="https://aws.amazon.com/config/?nc2=h_m1">AWS Config</a></li>
<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>
<li><a href="https://aws.amazon.com/iam/?nc2=h_m1">AWS Identity and Access Management (IAM)</a></li>
<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>
<li><a href="https://aws.amazon.com/athena/?nc2=h_m1">Amazon Athena</a></li>
<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>
Amazon QuickSight

AWS Data Pipeline

AWS Glue

Amazon QuickSight

AWS Data Pipeline

AWS Glue

Artificial Intelligence

Amazon Lex

Amazon Polly

Amazon Rekognition

Amazon Machine Learning

Mobile Services

AWS Mobile Hub

Amazon API Gateway

Amazon Cognito

Amazon Pinpoint

AWS Device Farm

AWS Mobile SDK

Application Services

AWS Step Functions

Amazon API Gateway

Amazon Elastic Transcoder

Amazon AppStream

Messaging

Messaging
Open Source Used In Cisco Kinetic for Cities 4.1.0.05560

<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>
Amazon EC2
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)
Amazon Elastic Block Storage (EBS)
Amazon Elastic File System (EFS)
<a href="https://aws.amazon.com/elasticloadbalancing/?nc2=h_mo">Elastic Load Balancing</a>
</div>
<div class="aws-link aws-double-angle">
<a href="https://aws.amazon.com/marketplace/b/2649366011/ref=mkt_ste_l2_nw_Category?nc2=h_mo">AWS Marketplace</a>
</div>
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<div class="aws-link aws-parent">
<a href="javascript:void(0)">Developer Tools</a>
<div class="aws-nav-mobile-menu-group">
<div class="aws-link">
<a href="https://aws.amazon.com/codecommit/?nc2=h_mo">AWS CodeCommit</a>
</div>
<div class="aws-link">
<a href="https://aws.amazon.com/codebuild/?nc2=h_mo">AWS CodeBuild</a>
</div>
<div class="aws-link">
<a href="https://aws.amazon.com/codedeploy/?nc2=h_mo">AWS CodeDeploy</a>
</div>
<div class="aws-link">
<a href="https://aws.amazon.com/codepipeline/?nc2=h_mo">AWS CodePipeline</a>
</div>
<div class="aws-link">
<a href="https://aws.amazon.com/xray/?nc2=h_mo">AWS X-Ray</a>
</div>
<div class="aws-link aws-double-angle">
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<div class="aws-link aws-parent">
<a href="javascript:void(0)">Management Tools</a>
<div class="aws-nav-mobile-menu-group">
<div class="aws-link">
<a href="https://aws.amazon.com/cloudwatch/?nc2=h_mo">Amazon CloudWatch</a>
</div>
<div class="aws-link">
<a href="https://aws.amazon.com/ec2/systems-manager/?nc2=h_mo">Amazon EC2 Systems Manager</a>
</div>
<div class="aws-link">
<a href="https://aws.amazon.com/cloudformation/?nc2=h_mo">AWS CloudFormation</a>
Amazon GameLift

Amazon Lumberyard

AWS Marketplace Software

Infrastructure Software (1300+)

Business Software (845+)

Developer Tools (220+)
Balancing
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<
Open Source Used In Cisco Kinetic for Cities 4.1.0.05581

AWS Service Catalog

AWS Command Line Interface

AWS Tools for PowerShell

AWS Identity and Access Management (IAM)

Amazon Inspector

AWS Artifact

AWS Certificate Manager

AWS Directory Service

AWS CloudHSM
<a href="https://aws.amazon.com/documentation/kms/?icmpid=docs_menu">AWS KMS</a></div></div><div class="aws-link" class="aws-link aws-parent" href="javascript: void(0)">Analytics</div><div class="aws-link" class="aws-link aws-parent" href="javascript: void(0)">Artificial Intelligence</div>
Amazon Lex

Amazon Polly

AWS Rekognition

Amazon Machine Learning

AWS IoT

Amazon GameLift

Amazon Lumberyard

AWS Mobile Hub

Amazon API Gateway

Amazon Cognito
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</div>
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<a href="javascript:void(0)">SDKs & Toolkits</a>
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<a href="https://aws.amazon.com/documentation/sdk-for-cpp/?icmpid=docs_menu">AWS SDK for C++</a>
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<div class="aws-link">
<a href="https://aws.amazon.com/documentation/sdk-for-go/?icmpid=docs_menu">AWS SDK for Go</a>
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<div class="aws-link">
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<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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<div class="aws-link aws-parent">
<a href="javascript:void(0)">Additional Software & Services</a>
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Networking &
Content Delivery<i class="icon-angle-right"></i></a><br/>
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DevOps Tooling and infrastructure resources for DevOps

Serverless Computing Build and run applications without thinking about servers

Ecommerce Applications Build secure and scalable online storefronts

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AWS MARKETPLACE

WordPress powered by AMIMOTO

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Internet of Things <span>Quickly build connected devices with backend services</span></a>

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Storage in the Cloud</div>

Amazon Elastic Block Storage (EBS)</div>

Amazon Elastic File System (EFS)</div>

Amazon Glacier</div>

AWS Storage Gateway</div>

AWS Snowball</div>

AWS Snowball Edge</div>

AWS Snowmobile</div>

AWS MARKETPLACE</div>

SoftNAS Cloud</div>

Cloud Protection Manager Standard Edition</div>

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AWS CodeCommit: Store Code in Private Git Repositories

AWS CodeBuild: Build and Test Code

AWS CodeDeploy: Automate Code Deployments

AWS CodePipeline: Release Software using Continuous Delivery

AWS X-Ray: Analyze and Debug Your Applications

AWS Command Line Interface: Unified Tool to Manage AWS Services

AWS MARKETPLACE: View More Developer Tools

Zend Server

Coldfusion

Chef Server

View More Developer Tools
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Management Tools

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

AWS CloudHSM: Hardware-based Key Storage for Regulatory Compliance

AWS Directory Service: Host and Manage Active Directory

Amazon Cloud Directory: Create Flexible Cloud-Native Directories

AWS Key Management Service: Managed Creation and Control of Encryption Keys

AWS Organizations: Policy-based management for multiple AWS accounts

AWS Shield: DDoS Protection

AWS WAF: Filter Malicious Web Traffic

AWS Artifact

AWS MARKETPLACE

Trend Micro Deep Security

Barracuda Web Application firewall
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Gemalto SafeNet

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Amazon Athena
Query Data in S3 using SQL

Amazon EMR
Hosted Hadoop Framework

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
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AWS MARKETPLACE

TIBCO Jaspersoft Reporting and Analytics for AWS (Hourly)

Attunity CloudBeam for Amazon Redshift

Matillion ETL for Redshift

View More BI Solutions

Artificial Intelligence

Amazon Lex

Amazon Polly

Amazon Rekognition

Amazon Machine Learning

Machine Learning for Developers
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Mobile Services

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

AWS Mobile SDK

Build High Quality Mobile Apps Quickly and Easily

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Bitfusion Mobile deep learning

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HPE
Mobile center</div></div>

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AWS Mobile SDK</div></div>

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Application Services</div></div>

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Amazon API Gateway

Amazon Elastic Transcoder

Amazon AppStream

AWS MARKETPLACE

Adobe ColdFusion 11

Nginx

Citrix Netscaler

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Amazon SQS

Amazon Pinpoint

Push Notifications for
Mobile Apps

Amazon SES - Email Sending and Receiving Service

Amazon SNS - Push Notification Service

Amazon WorkDocs - Secure Enterprise Document Storage and Sharing

Amazon WorkMail - Secure Email and Calendaring

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

Internet of Things
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Project Management

Storage & Backup

DEVELOPER TOOLS (220+)

Issue & Bug Tracking

Monitoring

Log Analysis

Source Control

Testing

Economics Center

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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
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- Amazon ElastiCache
- 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
<a href="https://aws.amazon.com/documentation/importexport/?icmpid=docs_menu">AWS Import/Export</a>
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<a href="https://aws.amazon.com/documentation/application-discovery/?icmpid=docs_menu">AWS Application Discovery Service</a>
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<a href="https://aws.amazon.com/documentation/codebuild/?icmpid=docs_menu">AWS CodeBuild</a>
</div>
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<div class="aws-link">
<a href="https://aws.amazon.com/documentation/cloudformation/?icmpid=docs_menu">AWS CloudFormation</a>
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<a href="https://aws.amazon.com/documentation/cloudtrail/?icmpid=docs_menu">AWS CloudTrail</a>
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AWS Directory Service
AWS CloudHSM
AWS KMS
AWS Shield
AWS WAF

Analytics
Amazon Athena
Amazon EMR
Amazon CloudSearch
Amazon Elasticsearch Service
Amazon Kinesis
Amazon Redshift
Amazon QuickSight
AWS Data Pipeline
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<a href="https://aws.amazon.com/documentation/polly/?icmpid=docs_menu">Amazon Polly</a>
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<a href="https://aws.amazon.com/documentation/rekognition/?icmpid=docs_menu">Amazon Rekognition</a>
</div>
</div>
<div id="aws-flyout-3-doc-iot" class="aws-flyout-content" data-da="ignore-standard-impression">
<h6>Internet of Things</h6>
<div class="aws-link">
<a href="https://aws.amazon.com/documentation/iot/?icmpid=docs_menu">AWS IoT</a>
</div>
</div>
<div id="aws-flyout-3-doc-gamedev" class="aws-flyout-content" data-da="ignore-standard-impression">
<h6>Game Development</h6>
<div class="aws-link">
<a href="https://aws.amazon.com/documentation/gamelift/?icmpid=docs_menu">Amazon GameLift</a>
</div>
<div class="aws-link">
<a href="https://aws.amazon.com/documentation/lumberyard/?icmpid=docs_menu">Amazon Lumberyard</a>
</div>
</div>
<div id="aws-flyout-3-doc-mobile" class="aws-flyout-content" data-da="ignore-standard-impression">
<h6>Mobile Services</h6>
<div class="aws-link">
</div>
</div>
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AWS Mobile Hub

Amazon API Gateway

Amazon Cognito

AWS Device 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

Application Services

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

<div id="aws-nav-flyout-3-doc-messaging" class="aws-nav-flyout-content" data-da="ignore-standard-impression">

<div class="aws-nav-flyout-inner">
<h6>Messaging</h6>
<div class="aws-link">
<a href="https://aws.amazon.com/documentation/sns/?icmpid=docs_menu">Amazon SNS</a>
</div>
<div class="aws-link">
<a href="https://aws.amazon.com/documentation/ses/?icmpid=docs_menu">Amazon SES</a>
</div>
<div class="aws-link">
<a href="https://aws.amazon.com/documentation/sqs/?icmpid=docs_menu">Amazon SQS</a>
</div>
</div>
</div>

<div id="aws-nav-flyout-3-doc-enterprise" class="aws-nav-flyout-content" data-da="ignore-standard-impression">

<div class="aws-nav-flyout-inner">
<h6>Business Productivity</h6>
<div class="aws-link">
<a href="https://aws.amazon.com/documentation/workdocs/?icmpid=docs_menu">Amazon WorkDocs</a>
</div>
<div class="aws-link">
<a href="https://aws.amazon.com/documentation/workmail/?icmpid=docs_menu">Amazon WorkMail</a>
</div>
<div class="aws-link">
<a href="https://aws.amazon.com/documentation/chime/">Amazon Chime</a>
</div>
</div>
</div>

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

<div class="aws-nav-flyout-inner">
<h6>Desktop & App Streaming</h6>
<div class="aws-link">
<a href="https://aws.amazon.com/documentation/workspaces/?icmpid=docs_menu">Amazon WorkSpaces</a>
</div>
</div>
</div>
Open Source Used In Cisco Kinetic for Cities 4.1.0.05653
<ul>
<li><a href="https://aws.amazon.com/cloudwatch/?nc2=h_m1">Amazon CloudWatch</a></li>
<li><a href="https://aws.amazon.com/ec2/systems-manager/?nc2=h_m1">Amazon EC2 Systems Manager</a></li>
<li><a href="https://aws.amazon.com/cloudformation/?nc2=h_m1">AWS CloudFormation</a></li>
<li><a href="https://aws.amazon.com/cloudtrail/?nc2=h_m1">AWS CloudTrail</a></li>
<li><a href="https://aws.amazon.com/config/?nc2=h_m1">AWS Config</a></li>
<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/iam/?nc2=h_m1">AWS Identity and Access Management (IAM)</a></li>
<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>
</ul>
<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>
<li><a href="https://aws.amazon.com/glue/?nc2=h_m1">AWS Glue</a></li>
</ul>
</div>
</div>

<div class="aws-nav-mm-section">
<div class="aws-nav-mm-section-header">
<a role="menuitem" aria-label="Artificial Intelligence" href="/amazon-ai/?nc2=h_l3_ai"> Artificial Intelligence</a>
</div>
<ul>
<li><a href="https://aws.amazon.com/lex/?nc2=h_a1">Amazon Lex</a></li>
<li><a href="https://aws.amazon.com/polly/?nc2=h_a1">Amazon Polly</a></li>
<li><a href="https://aws.amazon.com/rekognition/?nc2=h_a1">Amazon Rekognition</a></li>
<li><a href="https://aws.amazon.com/machine-learning/?nc2=h_m1">Amazon Machine Learning</a></li>
</ul>
</div>

<div class="aws-nav-mm-section">
<div class="aws-nav-mm-section-header">
<a role="menuitem" aria-label="Mobile Services" href="/mobile/?nc2=h_l3_ms"> Mobile Services</a>
</div>
<ul>
<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 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>
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<ul>
    <li><a href="https://aws.amazon.com/greengrass/?nc2=h_iot">AWS Greengrass</a></li>
    <li><a href="https://aws.amazon.com/iotbutton/?nc2=h_iot">AWS IoT Button</a></li>
</ul>

Game Development

<ul>
    <li><a href="https://aws.amazon.com/gamelift/?nc2=h_m1">Amazon GameLift</a></li>
    <li><a href="https://aws.amazon.com/lumberyard/?nc2=h_m1">Amazon Lumberyard</a></li>
</ul>

Click here to return to Amazon Web Services homepage
Open Source Used In Cisco Kinetic for Cities 4.1.0.05660
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
AWS Marketplace
AWS Identity and Access Management (IAM)
Amazon Inspector
AWS Personal Health Dashboard
AWS Command Line Interface
AWS Management Console
AWS Managed Services
AWS Marketplace
AWS Identity and Access Management (IAM)
Amazon Inspector
Open Source Used In Cisco Kinetic for Cities 4.1.0.05667
<div class="aws-link">
<a href="https://aws.amazon.com/java/?nc2=h_mo">Java</a></div>

<div class="aws-link">
<a href="https://aws.amazon.com/javascript/?nc2=h_mo">JavaScript</a></div>

<div class="aws-link">
<a href="https://aws.amazon.com/mobile/?nc2=h_mo">Mobile</a></div>

<div class="aws-link">
<a href="https://aws.amazon.com/php/?nc2=h_mo">PHP</a></div>

<div class="aws-link">
<a href="https://aws.amazon.com/ruby/?nc2=h_mo">Ruby</a></div>

<div class="aws-link">
<a href="https://aws.amazon.com/python/?nc2=h_mo">Python</a></div>

<div class="aws-link">
<a href="https://aws.amazon.com/net/?nc2=h_mo">Windows & .NET</a></div>

<div class="aws-link aws-parent">
<a href="javascript:void(0)">Training & Resources</a>
</div>

<div class="aws-link aws-nav-mobile-menu-group">
<a href="https://aws.amazon.com/training/?nc2=h_mo">Training</a>
</div>

<a href="https://aws.amazon.com/training/self-paced-labs/?nc2=h_mo">Self-Paced Labs</a>

<a href="https://aws.amazon.com/certification/?nc2=h_mo">Certification</a>

<a href="https://aws.amazon.com/economics/?nc2=h_mo">Economics Center</a>

<a href="https://aws.amazon.com/security/?nc2=h_mo">Security Center</a>

<a href="https://aws.amazon.com/architecture/?nc2=h_mo">Architecture Center</a>

<a href="https://aws.amazon.com/premiumsupport/knowledge-center/?nc1=h_mo">Knowledge Center</a>
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<a href="https://aws.amazon.com/documentation/autoscaling/?icmpid=docs_menu">Auto Scaling</a>

<a href="https://aws.amazon.com/documentation/elasticloadbalancing/? icmpid=docs_menu">Elastic Load Balancing</a>


<a href="https://aws.amazon.com/documentation/s3/?icmpid=docs_menu">Amazon S3</a>

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

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

<a href="https://aws.amazon.com/documentation/storage-gateway/?icmpid=docs_menu">AWS Storage Gateway</a>

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

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

<a href="https://aws.amazon.com/documentation/elasticache/?icmpid=docs_menu">Amazon ElastiCache</a>
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AWS Application Discovery Service

AWS CodeCommit

AWS CodeBuild

AWS CodeDeploy

AWS CodePipeline

AWS X-Ray

AWS Tools & SDKs

Amazon CloudWatch

AWS CloudTrail

AWS Config
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- AWS CloudHSM
- AWS KMS
- AWS Shield
- AWS WAF
- Amazon Athena
- Amazon EMR
- Amazon CloudSearch
- Amazon Elasticsearch Service
- Amazon Kinesis
- Amazon Redshift
- Amazon QuickSight
- AWS Data Pipeline
Artificial Intelligence
Amazon Lex
Amazon Polly
AWS Rekognition
Amazon Machine Learning
AWS IoT
Amazon GameLift
Amazon Lumberyard
Mobile Services
AWS Mobile Hub
Amazon API Gateway
Amazon AppStream 2.0

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
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Servlet-api.jar and javax.servlet-*.jar are under the CDDL license, the original source code for this can be found at http://www.eclipse.org/jetty/downloads.php

===========================================================================
Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration
===========================================================================

This software includes a binary and/or source version of data from

mecab-ipadic-2.7.0-20070801

which can be obtained from

http://atilika.com/releases/mecab-ipadic/mecab-ipadic-2.7.0-20070801.tar.gz
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xml-commons/java/external/README.dom.txt $Id: README.dom.txt 477038 2006-11-20 04:40:36Z mrglavas$

HEAR YE, HEAR YE!

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from the W3C, which is provided herein.

LICENSE.dom-software.txt covers all software from the W3C
including the following items in the xml-commons project:

    xml-commons/java/external/src/org/w3c
    and all subdirectories

(Note: SAC (The Simple API for CSS) has been published under an older
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LICENSE.dom-documentation.txt covers all documentation from the W3C including the following items in the xml-commons project:

xml-commons/java/external/xdocs/dom
and all subdirectories

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:
http://www.w3.org/TR/SVG11/java.html
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![HELP ICON](https://help.github.com/articles/which-remote-url-should-i-use)
Open Source Used In Cisco Kinetic for Cities 4.1.0.05710
Open Source Used in Cisco Kinetic for Cities 4.1.0.05712
Open Source Used in Cisco Kinetic for Cities 4.1.0.05720
Open Source Used In Cisco Kinetic for Cities 4.1.0.05729
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HIVE-11748: HivePreparedStatement's setTimestamp() does not quote value as required (Angus Smithson, reviewed by Sergio Pena)
Apache Hive

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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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  table {
    border-collapse: collapse;
    width: 100%;
    font-family: sans-serif;
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  h1 {
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th, td {
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Last revised by Reagle $Date: 2005-06-03 18:49:13 -0400 (Fri, 03 Jun 2005) $
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Oracle

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

javax.servlet:javax.servlet-api
javax.servlet.jsp:javax.servlet.jsp-api

-----
Apache
The following artifacts are ASL2 licensed.

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

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MortBay

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

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

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org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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librdkafka - Apache Kafka C driver library

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

This product depends on Jackson and includes it in this binary artifact. Jackson is a high-performance JSON processor.

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Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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 */

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

/*
LZ4 - Fast LZ compression algorithm
Header File
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For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/bootstrap-3.0.2
hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js
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Mockito 1.8.5
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Ty Coon, President of Vice

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  <head>
    <meta charset="utf-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <meta name="description" content="Home page of The Apache Software Foundation">
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    <link rel="icon" type="image/png" href="/favicons/android-chrome-192x192.png" sizes="192x192">
    <link rel="manifest" href="/favicons/manifest.json">
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</head>

<body>

<!-- Navigation -->

<header>

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

<div class="container">

<div class="navbar-header">

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

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

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

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

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

</button>

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

</div>

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

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

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

<li class="dropdown">

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

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

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

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

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

<li><a href="/foundation/sponsorship.html">Sponsorship</a></li>

<li><a href="/foundation/glossary.html">Glossary</a></li>

</ul>

</li>

</ul>

</div>

</div>

</nav>

</header>

</body>
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</head>

<body>

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

<link href="/css/min.bootstrap.css" rel="stylesheet">
<link href="/css/styles.css" rel="stylesheet">

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<!-- Navigation -->
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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 class="collapse navbar-collapse" id="mainnav-collapse">
<div style="line-height:20px; padding-top:5px; float:left"><a href="/">Home</a>&nbsp;&raquo&nbsp;<a href="/licenses/">Licenses</a></div>
<ul class="nav navbar-nav navbar-right">
<li class="dropdown">
<a href="#" class="dropdown-toggle" data-toggle="dropdown">About <span class="caret"></span></a>
<ul class="dropdown-menu" role="menu">
<li><a href="/foundation">Overview</a></li>
<li><a href="/foundation/members.html">Members</a></li>
<li><a href="/foundation/how-it-works.html">Process</a></li>
<li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
<li><a href="/foundation/glossary.html">Glossary</a></li>
<li><a href="/foundation/preFAQ.html">FAQ</a></li>
<li><a href="/foundation/contact.html">Contact</a></li>
</ul>
</li>
<li><a href="/index.html#projects-list">Projects</a></li>
<li class="dropdown">
<a href="#" class="dropdown-toggle" data-toggle="dropdown">People <span class="caret"></span></a>
<ul class="dropdown-menu" role="menu">
<li><a href="http://people.apache.org/">Overview</a></li>
<li><a href="/foundation/how-it-works.html#meritocracy">Meritocracy</a></li>
<li><a href="/foundation/how-it-works.html#roles">Roles</a></li>
<li><a href="http://planet.apache.org/">Planet Apache</a></li>
</ul>
</li>
</ul>
</div>
</nav>
</header>

</body>
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Additional External Libraries:
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- [httpcore-4.2.4](http://hc.apache.org/httpcomponents-core-ga) (LICENSE-httpcore-4.2.4.txt)
- [parquet-avro-1.7.0](https://parquet.apache.org) (LICENSE-parquet-avro-1.7.0.txt)
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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>

</nav>

</header>

</body>
</div>
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<!-- / Navigation -->
<div class="container">
<div class="row">
<div class="col-md-9 col-sm-8 col-xs-12">
<img src="/img/asf_logo.png" alt="Apache Logo" style="max-width: 100%;">
</div>
<div class="col-md-3 col-sm-4 col-xs-12">
<div class="input-group" style="margin-bottom: 5px;">
<script>
(function() {
var cx = '005703438322411770421:5mgshgtrx2u';
var gcse = document.createElement('script');
gcse.type = 'text/javascript';
gcse.async = true;
var s = document.getElementsByTagName('script')[0];
s.parentNode.insertBefore(gcse, s);
}());
</script>
</div>
<a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/governance/" The Apache Way</a>
<a role="button" class="btn btn-block btn-default btn-xs" href="https://community.apache.org/contributors/" Contribute</a>
<a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/thanks.html" ASF Sponsors</a>
</div>
</div>
<div class="container">
/* The following code is added by mdx_elementid.py */
/* Hide class="elementid-permalink", except when an enclosing heading */
/* has the :hover property. */
.headerlink, .elementid-permalink { visibility: hidden; }
</div>
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<!-- Navigation -->

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<html lang="en">

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```
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```

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Overview

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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: {
        "scripts": ["jquery"],
        "forms": ["jquery"],
        "pricing-table": ["jquery", "scripts"],
        "plugins/bootstrap.button": ["jquery"],
        "plugins/bootstrap.collapse": ["jquery"],
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    },
    waitSeconds: 15
};
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<!--[if (gte IE 9) | (!IE)]><!-->
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Choosing a Cloud Platform

Events & Webinars

Customer Success

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GETTING STARTED

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SAP HANA One at AWS Marketplace.

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Microsoft SharePoint Foundation 2013 at AWS Marketplace.
<div class="aws-nav-flyout-inner">
<h6><a href="https://aws.amazon.com/products/compute/?nc2=h_l3_db">Compute<i class="icon-double-angle-right"></i></a></h6>
<div class="aws-link">
<a href="https://aws.amazon.com/ec2/?nc2=h_l3_c">Amazon EC2<span>Virtual Servers in the Cloud</span></a>
</div>
<div class="aws-link">
<a href="https://aws.amazon.com/ecr/?nc2=h_l3_c">Amazon EC2 Container Registry<span>Store and Retrieve Docker Images</span></a>
</div>
<div class="aws-link">
<a href="https://aws.amazon.com/ecs/?nc2=h_l3_c">Amazon EC2 Container Service<span>Run and Manage Docker Containers</span></a>
</div>
<div class="aws-link">
<a href="https://amazonlightsail.com">Amazon Lightsail<span>Launch and Manage Virtual Private Servers</span></a>
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<a href="https://aws.amazon.com/vpc/?nc2=h_l3_c">Amazon VPC<span>Isolated Cloud Resources</span></a>
</div>
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<a href="https://aws.amazon.com/batch/?nc2=h_l3_dm">AWS Batch<span>Run Batch Jobs at Any Scale</span></a>
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</div>
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<a href="https://aws.amazon.com/lambda/?nc2=h_l3_c">AWS Lambda <span>Run Code without Thinking about Servers</span></a>
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<div class="aws-link">
<a href="https://aws.amazon.com/autoscaling/?nc2=h_l3_c">Auto Scaling</a>
</div>
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</div>
</div>

<a href="https://aws.amazon.com/marketplace/ref=mkt_ste_l2_ec2?nc2=h_l2_c">AWS MARKETPLACE</a> <i class="icon-double-angle-right"/>

<a href="https://aws.amazon.com/marketplace/pp/B00O7WM7QW/?ref=_mkt_ste_menu?nc2=h_l3_c">CentOS 7</i>
AWS Snowball Edge: Petabyte-scale Data Transport with On-board Compute

AWS Snowmobile: Exabyte-scale Data Transport


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Amazon RDS: Managed Relational Database Service for MySQL, PostgreSQL, Oracle, SQL Server, and MariaDB

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Amazon ElastiCache

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AWS Snowball

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Amazon VPC

Amazon CloudFront

Amazon Route 53

Amazon CloudFront

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AWS OpsWorks
- Automate Operations with Chef

AWS Service Catalog
- Create and Use Standardized Products

AWS Trusted Advisor
- Optimize Performance and Security

AWS Command Line Interface
- Unified Tool to Manage AWS Services

AWS Management Console
- Web-based User Interface

AWS MARKETPLACE
- AWS Market

Warewolf for Developers

Kurian
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<a href="https://aws.amazon.com/iam/?nc2=h_l3_dm">AWS Identity and Access Management (IAM)</a> Manage User Access and Encryption Keys

<a href="https://aws.amazon.com/inspector/?nc2=h_l3_dm">Amazon Inspector</a> Analyze Application Security

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

<a href="https://aws.amazon.com/cloudhsm/?nc2=h_l3_dm">AWS CloudHSM</a> Hardware-based Key Storage for Regulatory Compliance

<a href="https://aws.amazon.com/directoryservice/?nc2=h_l3_dm">AWS Directory Service</a> Host and Manage Active Directory

<a href="https://aws.amazon.com/cloud-directory/?nc2=h_l3_dm">Amazon Cloud Directory</a> Create Flexible Cloud-Native Directories

<a href="https://aws.amazon.com/kms/?nc2=h_l3_dm">AWS Key Management Service</a> Managed Creation and Control of Encryption Keys

<a href="https://aws.amazon.com/organizations/?nc2=h_l3_dm">AWS Organizations</a> Policy-based management for multiple AWS accounts
Open Source Used In Cisco Kinetic for Cities 4.1.0.06128

AWS Shield<sup>DDoS Protection</sup>

AWS WAF<sup>Filter Malicious Web Traffic</sup>

AWS Artifact

AWS MARKETPLACE

AWS MARKETPLACE

Trend Micro Deep Security

Barracuda Web Application firewall

Gemalto SafeNet

View More Security Solutions

Amazon Athena<sup>Query Data in S3 using SQL</sup>

Amazon EMR<sup>Hosted Hadoop Framework</sup>
Open Source Used In Cisco Kinetic for Cities 4.1.0.06129

Amazon CloudSearch
Amazon Elasticsearch
Amazon Kinesis
Amazon Redshift
Amazon QuickSight
Amazon Elasticsearch Service
Amazon Kinesis
Amazon Redshift
Amazon QuickSight
AWS Data Pipeline
AWS Glue
AWS MARKETPLACE
TIBCO Jaspersoft Reporting and Analytics for AWS (Hourly)
Attunity CloudBeam for Amazon Redshift
Matillion ETL for Redshift
Open Source Used In Cisco Kinetic for Cities 4.1.0.06132

Amazon Pinpoint
Push Notifications for Mobile Apps

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

AWS Mobile SDK
Build High Quality Mobile Apps Quickly and Easily

Application Services
Coordinate Distributed Applications

Amazon API Gateway
Build, Publish and Manage APIs

Amazon Elastic Transcoder
Easy-to-use Scalable Media Transcoding

Amazon AppStream
Low-latency Application Streaming

AWS MARKETPLACE

Adobe ColdFusion 11
Open Source Used In Cisco Kinetic for Cities 4.1.0.06133

<a href="https://aws.amazon.com/marketplace/pp/B00DIF4A6Y/ref=mkt_ste_l2_app_services_f2?nc2=h_l3_as">Ngin</a> <i class="icon-external-link"></i>

<a href="https://aws.amazon.com/marketplace/pp/B00A9ZLKFK/ref=mkt_ste_l2_app_services_f3?nc2=h_l3_as">Citrix Netscaler</a> <i class="icon-external-link"></i>

View All Related Products (260+)

<a href="https://aws.amazon.com/products/?nc2=h_l3_mg">Messaging</a> <i class="icon-double-angle-right"></i>

- <a href="https://aws.amazon.com/sqs/?nc2=h_l3_as">Amazon SQS</a> <span>Message Queue Service</span>
- <a href="https://aws.amazon.com/pinpoint/?nc2=h_l3_ms">Amazon Pinpoint</a> <span>Push Notifications for Mobile Apps</span>
- <a href="https://aws.amazon.com/sns/?nc2=h_l3_as">Amazon SNS</a> <span>Push Notification Service</span>
- <a href="https://aws.amazon.com/workmail/">Amazon WorkMail</a> <span>Secure Email and
<a class="aws-has-icon" href="https://aws.amazon.com/marketplace/pp/B018ACY2NU/"&ref_=mkt_ste_menu?nc2=h_l3_ms">OpenDOF IoT Router</a>

View All Related Products

Game Development

Amazon GameLift

Amazon Lumberyard

AWS Marketplace Software

Application Development

Application Servers

INFRASTRUCTURE SOFTWARE (1300+)}
Application Stacks

Big Data

Databases & Caching

Network Infrastructure

Operating Systems

Security

BUSINESS SOFTWARE (845+)

Business Intelligence

Collaboration

Content Management

CRM
Open Source Used In Cisco Kinetic for Cities 4.1.0.06137

1<nc2=h_l3_mp”>CRM</a>

</div>
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<a href=“https://aws.amazon.com/marketplace/b/4988011011/ref=mkt_ste_l2_ecommerce?nc2=h_l3_mp”>eCommerce</a>

</div>
<div class=“aws-link”>
<a href=“https://aws.amazon.com/marketplace/b/9528502011/ref=mkt_ste_l2_edu_rsrch?nc2=h_l3_mp”>Education & Research</a>

</div>
<div class=“aws-link”>
<a href=“https://aws.amazon.com/marketplace/b/7496938011/ref=mkt_ste_l2_fin_services?nc2=h_l3_mp”>Financial Services</a>

</div>
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<div class=“aws-link”>
<a href=“https://aws.amazon.com/marketplace/b/2649341011/ref=mkt_ste_l2_media?nc2=h_l3_mp”>Media</a>

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<div class=“aws-link”>
<a href=“https://aws.amazon.com/marketplace/b/2649337011/ref=mkt_ste_l2_stor_backup?nc2=h_l3_mp”>Storage & Backup</a>

</div>
<div class=“aws-link aws-nav-flyout-section-header”>
<a class=“aws-has-icon” href=“https://aws.amazon.com/marketplace/search/results/ref=mkt_ste_l2_mp_dev_tools_all/?page=1&category=2649274011&nc2=h_l3_mp”>DEVELOPER TOOLS (220+)</a><i class=“icon-double-angle-right”></i>

</div>
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<a href=“https://aws.amazon.com/marketplace/search/results/ref=mkt_ste_l2_mp_bug_trk/?page=1&category=2649281011&nc2=h_l3_mp”>Issue & Bug Tracking</a>

</div>
<div class=“aws-link”>
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<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 class="aws-nav-flyout-inner">
<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>
Open Source Used In Cisco Kinetic for Cities 4.1.0.06141


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
AWS CodePipeline

AWS X-Ray

AWS Tools & SDKs

Amazon CloudWatch

AWS CloudFormation

AWS CloudTrail

AWS Config

AWS OpsWorks

AWS Service Catalog

AWS Trusted Advisor

AWS Health

AWS Management Console
AWS Command Line Interface

AWS Tools for PowerShell

Security, Identity & Compliance

AWS Identity and Access Management (IAM)

Amazon Inspector

AWS Artifact

AWS Certificate Manager

AWS Directory Service

AWS CloudHSM

AWS KMS

AWS Shield

AWS WAF

Analytics
Open Source Used In Cisco Kinetic for Cities 4.1.0.06148

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

AWS Billing and Cost Management

AWS Marketplace

AWS Support

Alexa Top Sites

Alexa Web Information Service
Open Source Used In Cisco Kinetic for Cities 4.1.0.06150
Amazon CloudFront
Amazon Route 53
AWS Direct Connect
Elastic Load Balancing

Developer Tools

AWS CodeCommit
AWS CodeBuild
AWS CodeDeploy
AWS CodePipeline
AWS X-Ray
AWS Command Line Interface

Management Tools

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
<div class="aws-nav-mm-section">
  <div class="aws-nav-mm-section-header">
    <a role="menuitem" aria-label="Security, Identity & Compliance" href="/products/security/nc2=h_m1">Security, Identity & Compliance</a>
  </div>
</div>

<ul>
  <li><a href="https://aws.amazon.com/iam/?nc2=h_m1">AWS Identity and Access Management (IAM)</a></li>
  <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>
</ul>

<div class="aws-nav-mm-section">
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  </div>
</div>

<ul>
  <li><a href="https://aws.amazon.com/athena/?nc2=h_m1">Amazon Athena</a></li>
  <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>
  <li><a href="https://aws.amazon.com/glue/?nc2=h_m1">AWS Glue</a></li>
</ul>

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<ul>
  <li><a href="https://aws.amazon.com/lex/?nc2=h_a1">Amazon Lex</a></li>
  <li><a href="https://aws.amazon.com/polly/?nc2=h_a1">Amazon Polly</a></li>
  <li><a href="https://aws.amazon.com/rekognition/?nc2=h_a1">Amazon Rekognition</a></li>
  <li><a href="https://aws.amazon.com/machine-learning/?nc2=h_m1">Amazon Machine Learning</a></li>
</ul>
Open Source Used In Cisco Kinetic for Cities 4.1.0.06158
Open Source Used In Cisco Kinetic for Cities 4.1.0.06164

<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>

<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="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>

<a href="https://aws.amazon.com/premiumsupport/trustedadvisor/?nc2=h_mo">AWS Trusted Advisor</a>

<a href="https://aws.amazon.com/premiumsupport/phd/?nc2=h_mo">AWS Personal Health Dashboard</a>
Open Source Used In Cisco Kinetic for Cities 4.1.0.06169
Amazon Glacier

AWS Snowball

AWS Storage Gateway

Amazon RDS

Amazon DynamoDB

Amazon Redshift

Amazon VPC

Amazon CloudFront

AWS Direct Connect

Elastic Load Balancing
Open Source Used In Cisco Kinetic for Cities 4.1.0.06175
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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1.585 jackson-annotations 2.6.0

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1.586 httpcomponents-httpcore 4.2.2
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1.587 certifi 2017.7.27.1
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This package contains a modified version of ca-bundle.crt:

c-a-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore
 can be directly used with curl / libcurl / php_curl, or with
 an Apache+mod_ssl webserver for SSL client authentication.
 Just configure this file as the SSLCACertificateFile.#

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@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

1.588 spring-boot-autoconfigure
1.4.7.RELEASE

1.589 spring-rabbit 1.7.10
1.589.1 Available under license:

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 */

package org.springframework.amqp.rabbit;

import java.nio.charset.Charset;
import java.util.Date;
import java.util.UUID;
import java.util.concurrent.ConcurrentHashMap;
import java.util.concurrent.ConcurrentMap;
import java.util.concurrent.ExecutionException;
import java.util.concurrent.ScheduledFuture;
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.springframework.amqp.AmqpException;
import org.springframework.amqp.core.AmqpMessageReturnedException;
import org.springframework.amqp.core.AmqpReplyTimeoutException;
import org.springframework.amqp.core.CorrelationAwareMessagePostProcessor;
import org.springframework.amqp.core.Message;
import org.springframework.amqp.core.MessageListener;
import org.springframework.amqp.core.MessagePostProcessor;
import org.springframework.amqp.core.MessageProperties;
import org.springframework.amqp.rabbit.connection.ConnectionFactory;
import org.springframework.amqp.rabbit.core.RabbitTemplate;
import org.springframework.amqp.rabbit.core.RabbitTemplate.ConfirmCallback;
import org.springframework.amqp.rabbit.core.RabbitTemplate.ReturnCallback;
import org.springframework.amqp.rabbit.support.CorrelationData;
import org.springframework.amqp.support.Correlation;
import org.springframework.amqp.support.converter.MessageConverter;
import org.springframework.beans.factory.BeanNameAware;
import org.springframework.context.SmartLifecycle;
import org.springframework.scheduling.TaskScheduler;
import org.springframework.scheduling.concurrent.ThreadPoolTaskScheduler;
import org.springframework.util.Assert;
import org.springframework.util.concurrent.ListenableFuture;
import org.springframework.util.concurrent.SettableListenableFuture;

/**
 * Provides asynchronous send and receive operations returning a {@link ListenableFuture}
 * allowing the caller to obtain the reply later, using {@code get()} or a callback.
 * <p>
 * When confirms are enabled, the future has a confirm property which is itself a
 * {@link ListenableFuture}. If the reply is received before the publisher confirm,
 * the confirm is discarded since the reply implicitly indicates the message was
 * published.
 * <p>
 * Returned (undeliverable) request messages are presented as a
 * {@link AmqpMessageReturnedException} cause of an {@link ExecutionException}.
 * <p>
 * Internally, the template uses a {@link RabbitTemplate} and a
 * {@link SimpleMessageListenerContainer} either provided or constructed internally.
 * If an external {@link RabbitTemplate} is provided and confirms/returns are enabled,
 * it must not previously have had callbacks registered because this object needs to
 * be the callback.
 * *
 * @author Gary Russell
 * @since 1.6
 */

public class AsyncRabbitTemplate implements SmartLifecycle, MessageListener, ReturnCallback,
ConfirmCallback,
BeanNameAware {

    public static final int DEFAULT_RECEIVE_TIMEOUT = 30000;

    private final Log logger = LogFactory.getLog(this.getClass());

    public static final int DEFAULT_RECEIVE_TIMEOUT = 30000;

    private final Log logger = LogFactory.getLog(this.getClass());
private final RabbitTemplate template;

private final SimpleMessageListenerContainer container;

private final String replyAddress;

@SuppressWarnings("rawtypes")
private final ConcurrentHashMap<String, RabbitFuture> pending = new ConcurrentHashMap<String, RabbitFuture>();

@SuppressWarnings("rawtypes")
private final CorrelationMessagePostProcessor messagePostProcessor = new CorrelationMessagePostProcessor();

private volatile boolean running;

private volatile boolean enableConfirms;

private volatile long receiveTimeout = DEFAULT_RECEIVE_TIMEOUT;

private int phase;

private boolean autoStartup = true;

private Charset charset = Charset.forName("UTF-8");

private String beanName;

private TaskScheduler taskScheduler;

private boolean internalTaskScheduler = true;

/**
 * Construct an instance using the provided arguments. Replies will be
 * routed to the default exchange using the reply queue name as the routing
 * key.
 * @param connectionFactory the connection factory.
 * @param exchange the default exchange to which requests will be sent.
 * @param routingKey the default routing key.
 * @param replyQueue the name of the reply queue to listen for replies.
 */
public AsyncRabbitTemplate(ConnectionFactory connectionFactory, String exchange, String routingKey,
                            String replyQueue) {
    this(connectionFactory, exchange, routingKey, replyQueue, null);
}

/**
 * Construct an instance using the provided arguments. If 'replyAddress' is null,
 * replies will be routed to the default exchange using the reply queue name as the
* routing key. Otherwise it should have the form exchange/routingKey and must
* cause messages to be routed to the reply queue.
* @param connectionFactory the connection factory.
* @param exchange the default exchange to which requests will be sent.
* @param routingKey the default routing key.
* @param replyQueue the name of the reply queue to listen for replies.
* @param replyAddress the reply address (exchange/routingKey).
* */

public AsyncRabbitTemplate(ConnectionFactory connectionFactory, String exchange, String routingKey,
                     String replyQueue, String replyAddress) {
    Assert.notNull(connectionFactory, "'connectionFactory' cannot be null");
    Assert.notNull(routingKey, "'routingKey' cannot be null");
    Assert.notNull(replyQueue, "'replyQueue' cannot be null");
    this.template = new RabbitTemplate(connectionFactory);
    this.template.setExchange(exchange == null ? "" : exchange);
    this.template.setRoutingKey(routingKey);
    this.container = new SimpleMessageListenerContainer(connectionFactory);
    this.container.setQueueNames(replyQueue);
    this.container.setMessageListener(this);
    this.container.afterPropertiesSet();
    if (replyAddress == null) {
        this.replyAddress = replyQueue;
    } else {
        this.replyAddress = replyAddress;
    }
}

/**
 * Construct an instance using the provided arguments. The first queue the container
 * is configured to listen to will be used as the reply queue. Replies will be
 * routed using the default exchange with that queue name as the routing key.
 * @param template a {@link RabbitTemplate}
 * @param container a {@link SimpleMessageListenerContainer}.
 */

public AsyncRabbitTemplate(RabbitTemplate template, SimpleMessageListenerContainer container) {
    this(template, container, null);
}

/**
 * Construct an instance using the provided arguments. The first queue the container
 * is configured to listen to will be used as the reply queue. If 'replyAddress' is
 * null, replies will be routed using the default exchange with that queue name as the
 * routing key. Otherwise it should have the form exchange/routingKey and must
 * cause messages to be routed to the reply queue.
 * @param template a {@link RabbitTemplate}.
 * @param container a {@link SimpleMessageListenerContainer}.
* @param replyAddress the reply address.
 */
public AsyncRabbitTemplate(RabbitTemplate template, SimpleMessageListenerContainer container, String
replyAddress) {
    Assert.notNull(template, "template' cannot be null");
    Assert.notNull(container, "container' cannot be null");
    this.template = template;
    this.container = container;
    this.container.setMessageListener(this);
    if (replyAddress == null) {
        this.replyAddress = container.getQueueNames()[0];
    } else {
        this.replyAddress = replyAddress;
    }
}

/**
 * @param autoStartup true for auto start.
 * @see #isAutoStartup()
 */
public void setAutoStartup(boolean autoStartup) {
    this.autoStartup = autoStartup;
}

/**
 * @param phase the phase.
 * @see #getPhase()
 */
public void setPhase(int phase) {
    this.phase = phase;
}

/**
 * Set to true to enable the receipt of returned messages that cannot be delivered
 * in the form of a {@link AmqpMessageReturnedException}.  
 * @param mandatory true to enable returns.
 */
public void setMandatory(boolean mandatory) {
    if (mandatory) {
        this.template.setReturnCallback(this);
    }
    this.template.setMandatory(mandatory);
}

/**
 * Set to true to enable publisher confirms.  When enabled, the {@link RabbitFuture}
 * returned by the send and receive operation will have a
public void setEnableConfirms(boolean enableConfirms) {
    this.enableConfirms = enableConfirms;
    if (enableConfirms) {
        this.template.setConfirmCallback(this);
    }
}

/**
 * Set the charset to be used when converting byte[] to/from String for
 * @param charset the charset.
 * @deprecated - will be removed in 2.0 when byte[] correlation id is removed
 */
@Deprecated
public void setCharset(Charset charset) {
    this.charset = charset;
}

public String getBeanName() {
    return this.beanName;
}

@Override
public void setBeanName(String beanName) {
    this.beanName = beanName;
}

/**
 * @return a reference to the underlying connection factory in the
 * {@link RabbitTemplate}.
 */
public ConnectionFactory getConnectionFactory() {
    return this.template.getConnectionFactory();
}

/**
 * Set the receive timeout - the future returned by the send and receive
 * methods will be canceled when this timeout expires. [ @code <= 0] means
 * futures never expire. Beware that this will cause a memory leak if a
 * reply is not received. Default: 30000 (30 seconds).
 * @param receiveTimeout the timeout in milliseconds.
 */
public void setReceiveTimeout(long receiveTimeout) {
    this.receiveTimeout = receiveTimeout;
}
/**
 * Set the task scheduler to expire timed out futures.
 * @param taskScheduler the task scheduler
 * @see #setReceiveTimeout(long)
 */
public synchronized void setTaskScheduler(TaskScheduler taskScheduler) {
    Assert.notNull(taskScheduler, "'taskScheduler' cannot be null");
    this.internalTaskScheduler = false;
    this.taskScheduler = taskScheduler;
}

/**
 * @return a reference to the underlying {@link RabbitTemplate}'s
 * {@link MessageConverter}.
 */
public MessageConverter getMessageConverter() {
    return this.template.getMessageConverter();
}

/**
 * Send a message to the default exchange with the default routing key. If the message
 * contains a correlationId property, it must be unique.
 * @param message the message.
 * @return the {@link RabbitMessageFuture}.
 */
public RabbitMessageFuture sendAndReceive(Message message) {
    return sendAndReceive(this.template.getExchange(), this.template.getRoutingKey(), message);
}

/**
 * Send a message to the default exchange with the supplied routing key. If the message
 * contains a correlationId property, it must be unique.
 * @param routingKey the routing key.
 * @param message the message.
 * @return the {@link RabbitMessageFuture}.
 */
public RabbitMessageFuture sendAndReceive(String routingKey, Message message) {
    return sendAndReceive(this.template.getExchange(), routingKey, message);
}

/**
 * Convert the object to a message and send it to the default exchange with the
 * default routing key.
 * @param message the message.
 * @param <C> the expected result type.
 * @return the {@link RabbitConverterFuture}.
 */
public <C> RabbitConverterFuture<C> convertSendAndReceive(Object message) {
    return convertSendAndReceive(this.template.getExchange(), this.template.getRoutingKey(), message, null);
}

/**
 * Convert the object to a message and send it to the default exchange with the
 * provided routing key.
 * @param routingKey the routing key.
 * @param message the message.
 * @param <C> the expected result type.
 * @return the { @link RabbitConverterFuture}.
 */
public <C> RabbitConverterFuture<C> convertSendAndReceive(String routingKey, Object message) throws AmqpException {
    return convertSendAndReceive(this.template.getExchange(), routingKey, message, null);
}

/**
 * Convert the object to a message and send it to the provided exchange and
 * routing key.
 * @param exchange the exchange.
 * @param routingKey the routing key.
 * @param message the message.
 * @param <C> the expected result type.
 * @return the { @link RabbitConverterFuture}.
 */
public <C> RabbitConverterFuture<C> convertSendAndReceive(String exchange, String routingKey, Object message) {
    return convertSendAndReceive(exchange, routingKey, message, null);
}

/**
 * Convert the object to a message and send it to the default exchange with the
 * default routing key after invoking the { @link MessagePostProcessor}.
 * If the post processor adds a correlationId property, it must be unique.
 * @param message the message.
 * @param messagePostProcessor the post processor.
 * @param <C> the expected result type.
 * @return the { @link RabbitConverterFuture}.
 */
public <C> RabbitConverterFuture<C> convertSendAndReceive(Object message, MessagePostProcessor messagePostProcessor) {
    return convertSendAndReceive(this.template.getExchange(), this.template.getRoutingKey(), message, messagePostProcessor);
}

/**
 * Convert the object to a message and send it to the default exchange with the
* provided routing key after invoking the [@link MessagePostProcessor].
* If the post processor adds a correlationId property, it must be unique.
* @param routingKey the routing key.
* @param message the message.
* @param messagePostProcessor the post processor.
* @param <C> the expected result type.
* @return the [@link RabbitConverterFuture].
*/
public <C> RabbitConverterFuture<C> convertSendAndReceive(String routingKey, Object message,
        MessagePostProcessor messagePostProcessor) {
    return convertSendAndReceive(this.template.getExchange(), routingKey, message, messagePostProcessor);
}

/**
* Send a message to the supplied exchange and routing key. If the message
* contains a correlationId property, it must be unique.
* @param exchange the exchange.
* @param routingKey the routing key.
* @param message the message.
* @return the [@link RabbitMessageFuture].
*/
public RabbitMessageFuture sendAndReceive(String exchange, String routingKey, Message message) {
    String correlationId = getOrSetCorrelationIdAndSetReplyTo(message);
    RabbitMessageFuture future = new RabbitMessageFuture(correlationId, message);
    CorrelationData correlationData = null;
    if (this.enableConfirms) {
        correlationData = new CorrelationData(correlationId);
        future.setConfirm(new SettableListenableFuture<Boolean>());
    }
    this.pending.put(correlationId, future);
    this.template.send(exchange, routingKey, message, correlationData);
    return future;
}

/**
* Convert the object to a message and send it to the provided exchange and
* routing key after invoking the [@link MessagePostProcessor].
* If the post processor adds a correlationId property, it must be unique.
* @param exchange the exchange
* @param routingKey the routing key.
* @param message the message.
* @param messagePostProcessor the post processor.
* @param <C> the expected result type.
* @return the [@link RabbitConverterFuture].
*/
public <C> RabbitConverterFuture<C> convertSendAndReceive(String exchange, String routingKey, Object message,
        MessagePostProcessor messagePostProcessor) {

AsyncCorrelationData<C> correlationData = new AsyncCorrelationData<C>(messagePostProcessor, this.enableConfirms);
this.template.convertAndSend(exchange, routingKey, message, this.messagePostProcessor, correlationData);
return correlationData.future;

@Override
public synchronized void start() {
if (!this.running) {
if (this.internalTaskScheduler) {
ThreadPoolTaskScheduler scheduler = new ThreadPoolTaskScheduler();
scheduler.setThreadNamePrefix(getBeanName() == null ? "asyncTemplate-" : (getBeanName() + "-"));
scheduler.afterPropertiesSet();
this.taskScheduler = scheduler;
}
this.container.start();
}
this.running = true;

@Override
public synchronized void stop() {
if (this.running) {
this.container.stop();
for (RabbitFuture<?> future : this.pending.values()) {
future.setNackCause("AsyncRabbitTemplate was stopped while waiting for reply");
future.cancel(true);
}
if (this.internalTaskScheduler) {
(ThreadPoolTaskScheduler) this.taskScheduler).destroy();
this.taskScheduler = null;
}
this.running = false;
}

@Override
public boolean isRunning() {
return this.running;
}

@Override
public int getPhase() {
return this.phase;
}

@Override
public boolean isAutoStartup() {
return this.autoStartup;
}

@Override
public void stop(Runnable callback) {
stop();
callback.run();
}

@SuppressWarnings("unchecked")
@Override
public void onMessage(Message message) {
MessageProperties messageProperties = message.getMessageProperties();
if (messageProperties != null) {
@SuppressWarnings("deprecation")
byte[] correlationId = messageProperties.getCorrelationId();
if (correlationId != null) {
if (this.logger.isDebugEnabled()) {
this.logger.debug("onMessage: "+ message);
}
RabbitFuture<?> future = this.pending.remove(new String(correlationId, this.charset));
if (future != null) {
if (future instanceof AsyncRabbitTemplate.RabbitConverterFuture) {
Object converted = this.template.getMessageConverter().fromMessage(message);
((RabbitConverterFuture<Object>) future).set(converted);
}
else {
((RabbitMessageFuture) future).set(message);
}
}
else {
if (this.logger.isWarnEnabled()) {
this.logger.warn("No pending reply - perhaps timed out: "+ message);
}
}
}

@Override
public void returnedMessage(Message message, int replyCode, String replyText, String exchange, String routingKey) {
MessageProperties messageProperties = message.getMessageProperties();
@SuppressWarnings("deprecation")
byte[] correlationId = messageProperties.getCorrelationId();
if (correlationId != null) {
RabbitFuture<?> future = this.pending.remove(new String(correlationId, this.charset));
if (future != null) {

future.setException(new AmqpMessageReturnedException("Message returned", message, replyCode, replyText, 
exchange, routingKey));
}
}

@Override
public void confirm(CorrelationData correlationData, boolean ack, String cause) {
if (this.logger.isDebugEnabled()) {
this.logger.debug("Confirm: ", correlationData + ", ack=" + ack
+ (cause == null ? ": cause: " + cause));
}
String correlationId = correlationData.getId();
if (correlationId != null) {
RabbitFuture<?> future = this.pending.get(correlationId);
if (future != null) {
future.setNackCause(cause);
((SettableListenableFuture<Boolean>) future.getConfirm()).set(ack);
} else {
if (this.logger.isDebugEnabled()) {
this.logger.debug("Confirm: ", correlationData + ", ack=" + ack
+ (cause == null ? ": cause: " + cause)
+ " no pending future - either canceled or the reply is already received");
}
}
}

@SuppressWarnings("deprecation")
private String getOrSetCorrelationIdAndSetReplyTo(Message message) {
String correlationId;
MessageProperties messageProperties = message.getMessageProperties();
Assert.notNull(messageProperties, "the message properties cannot be null");
byte[] currentCorrelationId = messageProperties.getCorrelationId();
if (currentCorrelationId == null) {
correlationId = UUID.randomUUID().toString();
messageProperties.setCorrelationId(correlationId.getBytes(this.charset));
Assert.isNull(messageProperties.getReplyTo(), "'replyTo' property must be null");
} else {
correlationId = new String(currentCorrelationId, this.charset);
}
messageProperties.setReplyTo(this.replyAddress);
return correlationId;
}

@Override
public String toString() {
    return this.beanName == null ? super.toString() : (this.getClass().getSimpleName() + ": " + this.beanName);
}

/**
 * Base class for [link ListenableFuture]s returned by [link AsyncRabbitTemplate].
 * @since 1.6
 */
public abstract class RabbitFuture<T> extends SettableListenableFuture<T> {

    private final String correlationId;
    private final Message requestMessage;
    private final ScheduledFuture<?> cancelTask;
    private volatile ListenableFuture<Boolean> confirm;
    private String nackCause;

    public RabbitFuture(String correlationId, Message requestMessage) {
        this.correlationId = correlationId;
        this.requestMessage = requestMessage;
        if (AsyncRabbitTemplate.this.receiveTimeout > 0) {
            synchronized (AsyncRabbitTemplate.this) {
                if (!AsyncRabbitTemplate.this.running) {
                    AsyncRabbitTemplate.this.pending.remove(this.correlationId);
                    throw new IllegalStateException("'AsyncRabbitTemplate' must be started.");
                }
                this.cancelTask = AsyncRabbitTemplate.this.taskScheduler.schedule(new CancelTask(),
                        new Date(System.currentTimeMillis() + AsyncRabbitTemplate.this.receiveTimeout));
            }
        } else {
            this.cancelTask = null;
        }
    }

    @Override
    public boolean cancel(boolean mayInterruptIfRunning) {
        if (this.cancelTask != null) {
            this.cancelTask.cancel(true);
        }
        AsyncRabbitTemplate.this.pending.remove(this.correlationId);
        return super.cancel(mayInterruptIfRunning);
    }

    /*

public ListenableFuture<Boolean> getConfirm() {
    return this.confirm;
}

void setConfirm(ListenableFuture<Boolean> confirm) {
    this.confirm = confirm;
}

private class CancelTask implements Runnable {

    @Override
    public void run() {
        AsyncRabbitTemplate.this.pending.remove(RabbitFuture.this.correlationId);
        setException(new AmqpReplyTimeoutException("Reply timed out", RabbitFuture.this.requestMessage));
    }
}

public class RabbitMessageFuture extends RabbitFuture<Message> {

    public RabbitMessageFuture(String correlationId, Message requestMessage) {
        super(correlationId, requestMessage);
    }
}

/*
 * A { @link RabbitFuture } with a return type of { @link Message }.  
 * @since 1.6
 */

public class RabbitConverterFuture<C> extends RabbitFuture<C> {
  public RabbitConverterFuture(String correlationId, Message requestMessage) {
    super(correlationId, requestMessage);
  }
}

private final class CorrelationMessagePostProcessor<C> implements CorrelationAwareMessagePostProcessor {
  CorrelationMessagePostProcessor() {
    super();
  }

  @Override
  public Message postProcessMessage(Message message) throws AmqpException {
    throw new UnsupportedOperationException();
  }

  @Override
  public Message postProcessMessage(Message message, Correlation correlation) throws AmqpException {
    Message messageToSend = message;
    AsyncCorrelationData<C> correlationData = (AsyncCorrelationData<C>) correlation;
    if (correlationData.userPostProcessor != null) {
      messageToSend = correlationData.userPostProcessor.postProcessMessage(message);
    }
    String correlationId = getOrSetCorrelationIdAndSetReplyTo(messageToSend);
    correlationData.future = new RabbitConverterFuture<C>(correlationId, message);
    if (correlationData.enableConfirms && correlationData.getId() == null) {
      correlationData.setId(correlationId);
      correlationData.future.setConfirm(new SettableListenableFuture<Boolean>());
    }
    AsyncRabbitTemplate.this.pending.put(correlationId, correlationData.future);
    return messageToSend;
  }
}

private static class AsyncCorrelationData<C> extends CorrelationData {
  private final MessagePostProcessor userPostProcessor;

AsyncCorrelationData(MessagePostProcessor userPostProcessor, boolean enableConfirms) {
    this.userPostProcessor = userPostProcessor;
    this.enableConfirms = enableConfirms;
}

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1.595 failureaccess 1.0.1
1.596 react-router-redux 5.0.0

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1.597 commons-io 2.5

1.597.1 Available under license :

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<html lang="en">
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						<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 -->

</body>
</html>
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Version 2.0, January 2004

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<!-- Footer -->

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1.598 thymeleaf-layout-dialect 1.4.0

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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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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 of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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1.603 spring-ws-core 2.4.5

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*/
package org.springframework.ws.server;

import org.springframework.ws.context.MessageContext;

/**
 * Extension of the {@link EndpointInterceptor} interface that adds a way to
decide whether the interceptor should intercept a given message context.
 * @author Arjen Poutsma
 * @since 2.0
 */
public interface SmartEndpointInterceptor extends EndpointInterceptor {

/**
 * Indicates whether this interceptor should intercept the given message context.
 *
 * @param messageContext contains the incoming request message
 * @param endpoint chosen endpoint to invoke
 * @return [code true] to indicate that this interceptor applies; [code false] otherwise
 */
boolean shouldIntercept(MessageContext messageContext, Object endpoint);
}

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1.606 apache-ds-i18n 2.0.0-M15

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1.611 spring-security-core 3.1.2.RELEASE

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1.618 jsr311-api 1.1.1
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**1.619 haproxy 1.9.7**

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Since some protocols are found in rare environments (finance, industry, ...), some of them might be accessible only after signing an NDA. Enforcing GPL on such modules would only prevent them from ever being implemented, while not providing anything useful to ordinary users.

For this reason, I *want* to be able to support binary only external modules when needed, with a GPL core and GPL modules for standard protocols, so that people fixing bugs don't keep them secretly to try to stay over competition.

The solution was then to apply the LGPL license to the exportable include files, while keeping the GPL for all the rest. This way, it still is mandatory to redistribute modified code under customer request, but at the same time, it is expressly permitted to write, compile, link and load non-GPL code using the LGPL header files and not to distribute them if it causes a legal problem.

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Willy Tarreau - w@1wt.eu

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Version 2.1, February 1999

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1.621 spring 5.1.6
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import java.lang.annotation.Documented;
import java.lang.annotation.ElementType;
import java.lang.annotation.Retention;
import java.lang.annotation.RetentionPolicy;
import java.lang.annotation.Target;
import javax.annotation.Nonnull;
import javax.annotation.meta.TypeQualifierNickname;
import javax.annotation.meta.When;

/**
 * A common Spring annotation to declare that annotated elements can be {@code null} under
 * some circumstance.
 *
 * <p>Leverages JSR-305 meta-annotations to indicate nullability in Java to common
 * tools with JSR-305 support and used by Kotlin to infer nullability of Spring API.
 *
 * <p>Should be used at parameter, return value, and field level. Methods override should
 * repeat parent {@code @Nullable} annotations unless they behave differently.
 *
 * <p>Can be used in association with {@code @NonNullApi} or {@code @NonNullFields} to
 * override the default non-nullable semantic to nullable.
 *
 * @author Sebastien Deleuze
 * @author Juergen Hoeller
 * @since 5.0
 * @see NonNullApi
 * @see NonNullFields
 */
@Target({ElementType.METHOD, ElementType.PARAMETER, ElementType.FIELD})
@Retention(RetentionPolicy.RUNTIME)
@Documented
@Nonnull(when = When.MAYBE)
@TypeQualifierNickname
public @interface Nullable {
    }

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1.622 spring-asm 3.0.3.RELEASE

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1.628 postgre-sql 9.5.18

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diff -c -r bsd_indent/Makefile pg_bsd_indent/Makefile
*** bsd_indent/Makefile	Wed Oct 26 17:13:34 2011
--- pg_bsd_indent/Makefile	Wed Oct 12 12:17:12 2011
***************
*** 2,10 ****
# Makefile
#
#
! TARGET = indent
XFLAGS = -Wall -D__RCSID="static char *rcsid=" -D__COPYRIGHT="static char *copyright="
! CFLAGS = -g
LIBS =

$(TARGET) : args.o indent.o io.o lexi.o parse.o pr_comment.o
--- 2,10 ----
# Makefile
#
# ! TARGET = pg_bsd_indent
XFLAGS = -Wall -D__RCSID="static char *rcsid=" -D__COPYRIGHT="static char *copyright="
! CFLAGS = -O
LIBS =

$(TARGET) : args.o indent.o io.o lexi.o parse.o pr_comment.o
**********************
*** 31,37 ****
clean:
rm -f *.o $(TARGET) log core

! install:
! make clean
! make CFLAGS=-O
install -s -o bin -g bin $(TARGET) /usr/local/bin
--- 31,35 ----
clean:
rm -f *.o $(TARGET) log core

! install: $(TARGET)
install -s -o bin -g bin $(TARGET) /usr/local/bin
diff -c -r bsd_indent/README pg_bsd_indent/README
*** bsd_indent/README	Wed Oct 26 17:13:34 2011
--- pg_bsd_indent/README	Mon Nov 14 19:30:24 2005
**********************
*** 1,3 ****
--- 1,13 ----
+
+ This patch is from NetBSD current, 2005-11-14. It contains all the
+ patches need for its use in PostgreSQL.
+
+ bjm
+
+ ---------------------------------------------------------------------------
+
This is the C indenter, it originally came from the University of Illinois
via some distribution tape for PDP-11 Unix. It has subsequently been
hacked upon by James Gosling @ CMU. It isn't very pretty, and really needs
diff -c -r bsd_indent/args.c pg_bsd_indent/args.c
```c
#include <string.h>
#include "indent_globs.h"

#define INDENT_PG_VERSION "1.1"

/* profile types */
#define PRO_SPECIAL 1 /* special case */
#define PRO_BOOL 2 /* boolean */

#define STDIN 3 /* use stdin */
#define KEY 4 /* type (keyword) */
#define KEY_FILE 5 /* only used for args */
#define VERSION 6 /* only used for args */

char *option_source = "?";

void add_typedefs_from_file(char *str);

/* N.B.: because of the way the table here is scanned, options whose names are
 * substrings of other options must occur later; that is, with -lp vs -l, -lp
 */
```
break;

+ case KEY_FILE:
+ if (*param_start == 0)
+ goto need_param;
+ add_typedefs_from_file(param_start);
+ break;
+
+ case VERSION:
+ {
+ printf("pg_bsd_indent %s\n", INDENT_PG_VERSION);
+ exit(0);
+ }
+ break;
+
+ default:
+ fprintf(stderr, "indent: set_option: internal error: p_special %d\n", p->p_special);
+ **********************
+ *** 459,461 ****
--- 485,508 ----
exit(1);
}
+
+ void
+ add_typedefs_from_file(char *str)
+ {
+ FILE *file;
+ char line[BUFSIZ];
+
+ if ((file = fopen(param_start, "r")) == NULL)
+ {
+ fprintf(stderr, "indent: cannot open file %s\n", str);
+ exit(1);
+ }
+ while ((fgets(line, BUFSIZ, file)) != NULL)
+ {
+ /* Remove trailing whitespace */
+ *(line + strlen(line)) = '\0';
+ addkey(strdup(line), 4);
+ }
+ fclose(file);
+ }
Only in pg_bsd_indent: args.o
Only in pg_bsd_indent: indent.bsd.patch
Only in pg_bsd_indent: indent.o
- #define STACK_SIZE 150

EXTERN struct parser_state {
    int last_token;
    ... 239,249 ----
    scomf,/* Same line comment font */
    bodyf,/* major body font */
}

! /*
! * This controls the maximum number of 'else if' clauses supported.
! * If it is exceeded, comments are placed in column 100.
! */
! #define STACK_SIZE 1000

EXTERN struct parser_state {
    int last_token;
    ... 93,99 ----
    int rwcode;
    
! struct templ specials[1000] =
    {
    "switch", 1},
    "case", 2},
    ... 93,99 ----
    int rwcode;
    }

! struct templ specials[16384] =
    {
    "switch", 1},
    "case", 2},
    ... 622,629 ****

else
p++;
    if (p >= specials + sizeof specials / sizeof specials[0])
    ! return/* For now, table overflows are silently
    ! * ignored */
    p->rwd = key;
    p->rwcode = val;
    p[1].rwd = 0;
    --- 622,632 ----
else
    p++;
    if (p >= specials + sizeof specials / sizeof specials[0])
    ! { 
    ! fprintf(stderr, "indent: typedef table overflow\n");
    ! exit(1);
    ! } 
    !
    p->rwd = key;
    p->rwcode = val;
    p[1].rwd = 0;
    Only in pg_bsd_indent: lexi.o
    diff -c -r bsd_indent/parse.c pg_bsd_indent/parse.c
    *** bsd_indent/parse.c Wed Oct 26 17:13:34 2011
    --- pg_bsd_indent/parse.c Mon Nov 14 19:30:24 2005
    *******************
    *** 231,236 ****
    --- 231,241 ----
    
    }/* end of switch */

+ if (ps.tos >= STACK_SIZE) {
+    fprintf(stderr, "indent: stack size overflow\n");
+    exit(1);
+ }
+ 
+ reduce();/* see if any reduction can be done */

#ifdef debug
Only in pg_bsd_indent: parse.o
    diff -c -r bsd_indent/pr_comment.c pg_bsd_indent/pr_comment.c
    *** bsd_indent/pr_comment.c Wed Oct 26 17:13:34 2011
    --- pg_bsd_indent/pr_comment.c Mon Nov 14 19:30:24 2005
    *******************
    *** 148,154 ****
    --- 148,154 ----
    ps.box_com = true;
    ps.com_col = 1;
} else {
! if (*buf_ptr == '-' || *buf_ptr == '*' || *buf_ptr == '\n') {
    ps.box_com = true;/* a comment with a '-' , ' '*
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--- 148,158 ----

ps.box_com = true;
ps.com_col = 1;
}
else {
  ! /*
  ! * Don’t process 'n' or every comment is treated as a
  ! * block comment, meaning there is no wrapping.
  ! */
  ! if (*buf_ptr == '-' || *buf_ptr == '*')
  ps.box_com = true; /* a comment with a '-', '*'
  * or newline immediately
  * after the start comment is

***************
*** 328,333 ****
--- 332,350 ----
  goto end_of_comment;
}
while (*buf_ptr == ' ' || *buf_ptr == '	';
+
+ /*
+  * If there is a blank comment line, we need to prefix
+  * the line with the same three spaces that "/* " takes up.
+  * Without this code, blank stared lines in comments have
+  * three too-many characters on the line when wrapped.
+  */
+ if (s_com == e_com) {
+   *e_com++ = ' ';
+   *e_com++ = ' ';
+   *e_com++ = ' ';
+   now_col += 3;
+ }
}
else
  if (++buf_ptr >= buf_end)
    fill_buffer();
Only in pg_bsd_indent: pr_comment.o

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*/

package org.springframework.messaging;

/**
 * A generic message representation with headers and body.
 * @author Mark Fisher
 * @author Arjen Poutsma
 * @since 4.0
 * @param <T> the payload type
 * @see org.springframework.messaging.support.MessageBuilder
 */
public interface Message<T> {

/**
 * Return the message payload.
 */
T getPayload();

/**
 * Return message headers for the message (never {@code null} but may be empty).
 */
MessageHeaders getHeaders();

}

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1.649 httpcomponents-client 4.5.2

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package org.springframework.core;

/**
 * Common interface for managing aliases. Serves as super-interface for
 * {@link org.springframework.beans.factory.support.BeanDefinitionRegistry}.
 *
 * @author Juergen Hoeller
 * @since 2.5.2
 */

public interface AliasRegistry {

    /**
     * Given a name, register an alias for it.
     * @param name the canonical name
     * @param alias the alias to be registered
     * @throws IllegalStateException if the alias is already in use
     * and may not be overridden
     */
    void registerAlias(String name, String alias);

    /**
     * Remove the specified alias from this registry.
     * @param alias the alias to remove
     * @throws IllegalStateException if no such alias was found
     */
    void removeAlias(String alias);

    /**
     * Determine whether this given name is defines as an alias
     * (as opposed to the name of an actually registered component).
     * @param name the name to check
     */

}
* @return whether the given name is an alias
*/
boolean isAlias(String name);

/**
 * Return the aliases for the given name, if defined.
 * @param name the name to check for aliases
 * @return the aliases, or an empty array if none
 */
String[] getAliases(String name);

}
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