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package org.aspectj.internal.lang.reflect;

import java.lang.reflect.Method;
import java.lang.reflect.Type;
import org.aspectj.lang.annotation.AdviceName;
import org.aspectj.lang.reflect.Advice;
import org.aspectj.lang.reflect.AdviceKind;
import org.aspectj.lang.reflect.AjType;
import org.aspectj.lang.reflect.AjTypeSystem;
import org.aspectj.lang.reflect.PointcutExpression;

/**
 * @author colyer
 */

public class AdviceImpl implements Advice {

private static final String AJC_INTERNAL = "org.aspectj.runtime.internal";

private final AdviceKind kind;
private final Method adviceMethod;
private PointcutExpression pointcutExpression;
private boolean hasExtraParam = false;
private Type[] genericParameterTypes;
private AjType[] parameterTypes;
private AjType[] exceptionTypes;

protected AdviceImpl(Method method, String pointcut, AdviceKind type) {
    this.kind = type;
    this.adviceMethod = method;
    this.pointcutExpression = new PointcutExpressionImpl(pointcut);
}

protected AdviceImpl(Method method, String pointcut, AdviceKind type, String extraParamName) {
    this(method,pointcut,type);
}

private final AdviceKind kind;
private final Method adviceMethod;
private PointcutExpression pointcutExpression;
private boolean hasExtraParam = false;
private Type[] genericParameterTypes;
private AjType[] parameterTypes;
private AjType[] exceptionTypes;

protected AdviceImpl(Method method, String pointcut, AdviceKind type) {
    this.kind = type;
    this.adviceMethod = method;
    this.pointcutExpression = new PointcutExpressionImpl(pointcut);
}

protected AdviceImpl(Method method, String pointcut, AdviceKind type, String extraParamName) {
    this(method,pointcut,type);
}
this.hasExtraParam = true;

public AjType getDeclaringType() {
    return AjTypeSystem.getAjType(adviceMethod.getDeclaringClass());
}

public Type[] getGenericParameterTypes() {
    if (this.genericParameterTypes == null) {
        Type[] genTypes = adviceMethod.getGenericParameterTypes();
        int syntheticCount = 0;
        for (Type t : genTypes) {
            if (t instanceof Class) {
                if (((Class)t).getPackage().getName().equals(AJC_INTERNAL)) syntheticCount++;
            }
        }
        this.genericParameterTypes = new Type[genTypes.length - syntheticCount];
        for (int i = 0; i < genericParameterTypes.length; i++) {
            if (genTypes[i] instanceof Class) {
                this.genericParameterTypes[i] = AjTypeSystem.getAjType((Class<?>)genTypes[i]);
            } else {
                this.genericParameterTypes[i] = genTypes[i];
            }
        }
    }
    return this.genericParameterTypes;
}

public AjType<?>[] getParameterTypes() {
    if (this.parameterTypes == null) {
        Class<?>[] ptypes = adviceMethod.getParameterTypes();
        int syntheticCount = 0;
        for(Class<?> c : ptypes) {
            if (c.getPackage().getName().equals(AJC_INTERNAL)) syntheticCount++;
        }
        this.parameterTypes = new AjType<?>[ptypes.length - syntheticCount];
        for (int i = 0; i < parameterTypes.length; i++) {
            this.parameterTypes[i] = AjTypeSystem.getAjType(ptypes[i]);
        }
    }
    return this.parameterTypes;
}

public AjType<?>[] getExceptionTypes() {
    if (this.exceptionTypes == null) {
        Class<?>[] exTypes = adviceMethod.getExceptionTypes();
        this.exceptionTypes = new AjType<?>[exTypes.length];
        for (int i = 0; i < exTypes.length; i++) {

this.exceptionTypes[i] = AjTypeSystem.getAjType(exTypes[i]);
}
return this.exceptionTypes;
}

public AdviceKind getKind() {
return kind;
}

public String getName() {
String adviceName = adviceMethod.getName();
if (adviceName.startsWith("ajc$")) {
adviceName = "";
AdviceName name = adviceMethod.getAnnotation(AdviceName.class);
if (name != null) adviceName = name.value();
}
return adviceName;
}

public PointcutExpression getPointcutExpression() {
return pointcutExpression;
}

public String toString() {
StringBuffer sb = new StringBuffer();
if (getName().length() > 0) {
sb.append("@AdviceName(");
sb.append(getName());
sb.append("" );
}
if (getKind() == AdviceKind.AROUND) {
sb.append(adviceMethod.getGenericReturnType().toString());
sb.append(" ");
}
switch(getKind()) {
case AFTER:
sb.append("after(");
break;
case AFTER_RETURNING:
sb.append("after(");
break;
case AFTER_THROWING:
sb.append("after(");
break;
case AROUND:
sb.append("around(");
break;
}
case BEFORE:
    sb.append("before(");
    break;
}
AjType<?>[] ptypes = getParameterTypes();
int len = ptypes.length;
if (hasExtraParam) len--;
for (int i = 0; i < len; i++) {
    sb.append(ptypes[i].getName());
    if (i+1 < len) sb.append(",");
}
    sb.append(" ");
switch(getKind()) {
    case AFTER_RETURNING:
        sb.append("returning");
        if (hasExtraParam) {
            sb.append("(");
            sb.append(ptypes[len-1].getName());
            sb.append(") ");
        }
    case AFTER_THROWING:
        sb.append("throwing");
        if (hasExtraParam) {
            sb.append("(");
            sb.append(ptypes[len-1].getName());
            sb.append(") ");
        }
    default: // no-op
}
AjType<?>[] exTypes = getExceptionTypes();
if (exTypes.length > 0) {
    sb.append("throws ");
    for (int i = 0; i < exTypes.length; i++) {
        sb.append(exTypes[i].getName());
        if (i+1 < exTypes.length) sb.append(",");
    }
    sb.append(" ");
}
    sb.append(";");
    sb.append(getPointcutExpression().asString());
    return sb.toString();
}
1.8 cglib 2.2.2

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1.20 el-api 2.2

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1.27 httpclient 4.5
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Open Source Used In ccaportal 5.3
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</head>

<body>

<!-- Navigation -->

<header>
<nav class="navbar navbar-default navbar-fixed-top">
<div class="container">
<div class="navbar-header">

</div>

</div>
</nav>
</header>

</body>
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      </div>
      <div class="col-md-3 col-sm-3 col-xs-6">
        <a href="http://apache.org/foundation/contributing.html" title="Support Apache">
          <img src="/images/SupportApache-small.png" style="height: 150px; width: 150px; margin-top: 5px; margin-bottom: 5px;">
        </a>
      </div>
      <div class="col-md-3 col-sm-4 col-xs-6">
        <div class="input-group" style="margin-bottom: 5px;">
          <gcse:searchbox-only></gcse:searchbox-only>
        </div>
        <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/governance/">The Apache Way</a>
        <a role="button" class="btn btn-block btn-default btn-xs" href="https://community.apache.org/contributors/">Contribute</a>
        <a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/thanks.html">ASF Sponsors</a>
      </div>
    </div>
  </div>
</div>

<script>
(function() {
  var cx = '005703438322411770421:5mgshgrgx2u';
  var gsc = document.createElement('script');
  gsc.type = 'text/javascript';
  gsc.async = true;
  var s = document.getElementsByTagName('script')[0];
  s.parentNode.insertBefore(gsc, s);
})();
</script>

<a role="button" class="btn btn-block btn-default btn-xs" href="/foundation/governance/">The Apache Way</a>
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# 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
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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>
 * *
 * <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>
*<p>
*Performance is often a logging concern.
* By examining the appropriate property,
* a component can avoid expensive operations (producing information
* to be logged).</p>
*<p>
* For example,
* <code><pre>
* if (log.isDebugEnabled()) {
*   ... do something expensive ...
*   log.debug(theResult);
* }
* </pre></code>
*</p>
*<p>
* Configuration of the underlying logging system will generally be done
* external to the Logging APIs, through whatever mechanism is supported by
* that system.</p>
*<p>
* Please note that this interface is identical to that found in JCL
1.1.1.</p>
*<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
public boolean isErrorEnabled();

/**
 * <p> Is fatal logging currently enabled? </p>
 *
 * <p> Call this method to prevent having to perform expensive operations
 * (for example, <code>String</code> concatenation)
 * when the log level is more than fatal. </p>
 */
public boolean isFatalEnabled();

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

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

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

// ---------------------------------------- Logging Methods
/**
 * Log a message with trace log level. 
 * @param message log this message
 */
public void trace(Object message);

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

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

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

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

/**
 * Log an error with info log level. 
 * @param message log this message
 * @param t log this cause
 */
public void info(Object message, Throwable t);
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>
 */
1.39 jersey-client 1.17.1

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