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 * Adrian Colyer Initial implementation
 * *******************************************************************/

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);
    this.hasExtraParam = true;
}

class AdviceImpl {
    private Method method;
    private String pointcut;
    private AdviceKind type;
    private String extraParamName;
    private boolean hasExtraParam;

    public 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) {
            Exception[] excTypes = adviceMethod.getExceptionTypes();
            int syntheticCount = 0;
            for (Exception e : excTypes) {
                if (e.getDeclaringClass().getPackage().getName().equals(AJC_INTERNAL)) syntheticCount++;
            }
            this.exceptionTypes = new AjType<?>[excTypes.length - syntheticCount];
            for (int i = 0; i < exceptionTypes.length; i++) {
                this.exceptionTypes[i] = AjTypeSystem.getAjType(excTypes[i]);
            }
            return this.exceptionTypes;
        }
    }

    public void setDeclaringType(AjType type) {
        this.declaringType = type;
    }

    public void setParameterTypes(AjType[] types) {
        this.parameterTypes = types;
    }

    public void setExceptionTypes(AjType[] types) {
        this.exceptionTypes = types;
    }

    public void setExtraParam(String name) {
        this.extraParamName = name;
    }

    public void setHasExtraParam(boolean value) {
        this.hasExtraParam = value;
    }

    public void setMethod(Method method) {
        this.method = method;
    }

    public void setPointcut(String pointcut) {
        this.pointcut = pointcut;
    }

    public void setType(AdviceKind type) {
        this.type = type;
    }

    public void setExtraParamValue(Object value) {
        this.extraParamValue = value;
    }

    public void setExtraParamType(AjType type) {
        this.extraParamType = type;
    }

    private Method method;
    private String pointcut;
    private AdviceKind type;
    private String extraParamName;
    private boolean hasExtraParam;
    private AjType declaringType;
    private AjType[] parameterTypes;
    private AjType[] exceptionTypes;
    private String extraParamValue;
    private AjType extraParamType;
}

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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() {
StringBuilder sb = new StringBuilder();
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(");
brcak;
case AFTER RETURNING:
sb.append("after(");
brcak;
case AFTER THROWING:
sb.append("after(");
brcak;
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(":");
    sb.append(getPointcutExpression().asString());
    return sb.toString();
}
1.22 mybatis 3.5.6

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Refactored SqlBuilder class (SQL, AbstractSQL)

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Thu, 2007-06-07 16:10 ? nelson

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1.37 jcl-over-slf4j 1.7.1

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 */

package org.apache.commons.logging;

/**
 * A simple logging interface abstracting logging APIs. In order to be
 * instantiated successfully by \{@link LogFactory\}, classes that implement
 * this interface must have a constructor that takes a single String
 * parameter representing the "name" of this Log.</p>
 *
 * The six logging levels used by \<code>Log</code>\ are (in order):
 * \<ol>
 * \<li>trace (the least serious)</li>
 * \<li>debug</li>
 * \<li>info</li>
 * \<li>warn</li>
 * \<li>error</li>
 * \<li>fatal (the most serious)</li>
 * \</ol>
 * The mapping of these log levels to the concepts used by the underlying
 * logging system is implementation dependent.
 * The implementation should ensure, though, that this ordering behaves
 * as expected.</p>
 *
 * Performance is often a logging concern.
* By examining the appropriate property,
* a component can avoid expensive operations (producing information
* to be logged).</p>
*
* For example,
* <code><pre>
*    if (log.isDebugEnabled()) {
*        ... do something expensive ...
*        log.debug(theResult);
*    }
* </pre></code>
* </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>
*
* 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

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

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

public boolean isInfoEnabled();

public boolean isTraceEnabled();

public boolean isWarnEnabled();
* @param message log this message
*/
public void trace(Object message);

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

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

/**
 * <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>
 */
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>
 */
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);
public void fatal(Object message, Throwable t);

}

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