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Version 2.0, January 2004

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Apache log4j

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*/

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```
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* http://eclipse.org/legal/epl-v10.html  
*  
* Contributors:  
* 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;
}

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();
}

}

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```

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 *
 * Contributors:
 * Adrian Colyer Initial implementation
 * *****/

```
package org.aspectj.internal.lang.reflect;
```

```
import java.lang.annotation.Annotation;
import java.lang.reflect.Constructor;
import java.lang.reflect.Field;
import java.lang.reflect.Method;
import java.lang.reflect.Modifier;
import java.lang.reflect.Type;
import java.lang.reflect.TypeVariable;
import java.util.ArrayList;
import java.util.Arrays;
import java.util.EnumSet;
import java.util.List;
import java.util.Set;
```

```
import org.aspectj.internal.lang.annotation.ajcDeclareAnnotation;
import org.aspectj.internal.lang.annotation.ajcDeclareEoW;
import org.aspectj.internal.lang.annotation.ajcDeclareParents;
import org.aspectj.internal.lang.annotation.ajcDeclarePrecedence;
import org.aspectj.internal.lang.annotation.ajcDeclareSoft;
import org.aspectj.internal.lang.annotation.ajcITD;
import org.aspectj.internal.lang.annotation.ajcPrivileged;
import org.aspectj.lang.annotation.After;
import org.aspectj.lang.annotation.AfterReturning;
import org.aspectj.lang.annotation.AfterThrowing;
import org.aspectj.lang.annotation.Around;
import org.aspectj.lang.annotation.Aspect;
import org.aspectj.lang.annotation.Before;
import org.aspectj.lang.annotation.DeclareError;
import org.aspectj.lang.annotation.DeclareWarning;
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.DeclareAnnotation;
import org.aspectj.lang.reflect.DeclareErrorOrWarning;
import org.aspectj.lang.reflect.DeclareParents;
import org.aspectj.lang.reflect.DeclarePrecedence;
import org.aspectj.lang.reflect.DeclareSoft;
import org.aspectj.lang.reflect.InterTypeConstructorDeclaration;
import org.aspectj.lang.reflect.InterTypeFieldDeclaration;
```



```

import org.aspectj.lang.reflect.InterTypeMethodDeclaration;
import org.aspectj.lang.reflect.NoSuchAdviceException;
import org.aspectj.lang.reflect.NoSuchPointcutException;
import org.aspectj.lang.reflect.PerClause;
import org.aspectj.lang.reflect.PerClauseKind;
import org.aspectj.lang.reflect.Pointcut;

/**
 * @author colyer
 *
 */
public class AjTypeImpl<T> implements AjType<T> {

    private static final String ajcMagic = "ajc$";

    private Class<T> clazz;
    private Pointcut[] declaredPointcuts = null;
    private Pointcut[] pointcuts = null;
    private Advice[] declaredAdvice = null;
    private Advice[] advice = null;
    private InterTypeMethodDeclaration[] declaredITDMethods = null;
    private InterTypeMethodDeclaration[] itdMethods = null;
    private InterTypeFieldDeclaration[] declaredITDFields = null;
    private InterTypeFieldDeclaration[] itdFields = null;
    private InterTypeConstructorDeclaration[] itdCons = null;
    private InterTypeConstructorDeclaration[] declaredITDCons = null;

    public AjTypeImpl(Class<T> fromClass) {
        this.clazz = fromClass;
    }

    /** (non-Javadoc)
     * @see org.aspectj.lang.reflect.AjType#getName()
     */
    public String getName() {
        return clazz.getName();
    }

    /** (non-Javadoc)
     * @see org.aspectj.lang.reflect.AjType#getPackage()
     */
    public Package getPackage() {
        return clazz.getPackage();
    }

    /** (non-Javadoc)
     * @see org.aspectj.lang.reflect.AjType#getInterfaces()

```

```

*/
public AjType<?>[] getInterfaces() {
    Class<?>[] baseInterfaces = clazz.getInterfaces();
    return toAjTypeArray(baseInterfaces);
}

/* (non-Javadoc)
 * @see org.aspectj.lang.reflect.AjType#getModifiers()
 */
public int getModifiers() {
    return clazz.getModifiers();
}

public Class<T> getJavaClass() {
    return clazz;
}

/* (non-Javadoc)
 * @see org.aspectj.lang.reflect.AjType#getSupertype()
 */
public AjType<? super T> getSupertype() {
    Class<? super T> superclass = clazz.getSuperclass();
    return superclass==null ? null : (AjType<? super T>) new AjTypeImpl(superclass);
}

/* (non-Javadoc)
 * @see org.aspectj.lang.reflect.AjType#getGenericSupertype()
 */
public Type getGenericSupertype() {
    return clazz.getGenericSuperclass();
}

/* (non-Javadoc)
 * @see org.aspectj.lang.reflect.AjType#getEnclosingMethod()
 */
public Method getEnclosingMethod() {
    return clazz.getEnclosingMethod();
}

/* (non-Javadoc)
 * @see org.aspectj.lang.reflect.AjType#getEnclosingConstructor()
 */
public Constructor getEnclosingConstructor() {
    return clazz.getEnclosingConstructor();
}

/* (non-Javadoc)
 * @see org.aspectj.lang.reflect.AjType#getEnclosingType()

```

```

*/
public AjType<?> getEnclosingType() {
    Class<?> enc = clazz.getEnclosingClass();
    return enc != null ? new AjTypeImpl(enc) : null;
}

/* (non-Javadoc)
 * @see org.aspectj.lang.reflect.AjType#getDeclaringType()
 */
public AjType<?> getDeclaringType() {
    Class dec = clazz.getDeclaringClass();
    return dec != null ? new AjTypeImpl(dec) : null;
}

public PerClause getPerClause() {
    if (isAspect()) {
        Aspect aspectAnn = clazz.getAnnotation(Aspect.class);
        String perClause = aspectAnn.value();
        if (perClause.equals("")) {
            if (getSupertype().isAspect()) {
                return getSupertype().getPerClause();
            }
            return new PerClauseImpl(PerClauseKind.SINGLETON);
        } else if (perClause.startsWith("perthis(")) {
            return new
PointcutBasedPerClauseImpl(PerClauseKind.PERTHIS,perClause.substring("perthis(".length(),perClause.length() -
1));
        } else if (perClause.startsWith("pertarget(")) {
            return new
PointcutBasedPerClauseImpl(PerClauseKind.PERTARGET,perClause.substring("pertarget(".length(),perClause.len
gth() - 1));
        } else if (perClause.startsWith("percfow(")) {
            return new
PointcutBasedPerClauseImpl(PerClauseKind.PERCFLOW,perClause.substring("percfow(".length(),perClause.leng
th() - 1));
        } else if (perClause.startsWith("percfowbelow(")) {
            return new
PointcutBasedPerClauseImpl(PerClauseKind.PERCFLOWBELOW,perClause.substring("percfowbelow(".length(),
perClause.length() - 1));
        } else if (perClause.startsWith("pertypewithin(")) {
            return new
TypePatternBasedPerClauseImpl(PerClauseKind.PERTYPEWITHIN,perClause.substring("pertypewithin(".length(),
perClause.length() - 1));
        } else {
            throw new IllegalStateException("Per-clause not recognized: " + perClause);
        }
    } else {
        return null;
    }
}

```

```

    }
}

/* (non-Javadoc)
 * @see org.aspectj.lang.reflect.AjType#isAnnotationPresent(java.lang.Class)
 */
public boolean isAnnotationPresent(Class<? extends Annotation> annotationType) {
    return clazz.isAnnotationPresent(annotationType);
}

public <A extends Annotation> A getAnnotation(Class<A> annotationType) {
    return clazz.getAnnotation(annotationType);
}

/* (non-Javadoc)
 * @see org.aspectj.lang.reflect.AjType#getAnnotations()
 */
public Annotation[] getAnnotations() {
    return clazz.getAnnotations();
}

/* (non-Javadoc)
 * @see org.aspectj.lang.reflect.AjType#getDeclaredAnnotations()
 */
public Annotation[] getDeclaredAnnotations() {
    return clazz.getDeclaredAnnotations();
}

/* (non-Javadoc)
 * @see org.aspectj.lang.reflect.AjType#getAspects()
 */
public AjType<?>[] getAjTypes() {
    Class[] classes = clazz.getClasses();
    return toAjTypeArray(classes);
}

/* (non-Javadoc)
 * @see org.aspectj.lang.reflect.AjType#getDeclaredAspects()
 */
public AjType<?>[] getDeclaredAjTypes() {
    Class[] classes = clazz.getDeclaredClasses();
    return toAjTypeArray(classes);
}

/* (non-Javadoc)
 * @see org.aspectj.lang.reflect.AjType#getConstructor(java.lang.Class...)
 */
public Constructor getConstructor(AjType<?>... parameterTypes) throws NoSuchMethodException {

```

```

return clazz.getConstructor(toClassArray(parameterTypes));
}

/* (non-Javadoc)
 * @see org.aspectj.lang.reflect.AjType#getConstructors()
 */
public Constructor[] getConstructors() {
return clazz.getConstructors();
}

/* (non-Javadoc)
 * @see org.aspectj.lang.reflect.AjType#getDeclaredConstructor(java.lang.Class...)
 */
public Constructor getDeclaredConstructor(AjType<?>... parameterTypes) throws NoSuchMethodException {
return clazz.getDeclaredConstructor(toClassArray(parameterTypes));
}

/* (non-Javadoc)
 * @see org.aspectj.lang.reflect.AjType#getDeclaredConstructors()
 */
public Constructor[] getDeclaredConstructors() {
return clazz.getDeclaredConstructors();
}

/* (non-Javadoc)
 * @see org.aspectj.lang.reflect.AjType#getDeclaredField(java.lang.String)
 */
public Field getDeclaredField(String name) throws NoSuchFieldException {
Field f = clazz.getDeclaredField(name);
if (f.getName().startsWith(ajcMagic)) throw new NoSuchFieldException(name);
return f;
}

/* (non-Javadoc)
 * @see org.aspectj.lang.reflect.AjType#getDeclaredFields()
 */
public Field[] getDeclaredFields() {
Field[] fields = clazz.getDeclaredFields();
List<Field> filteredFields = new ArrayList<Field>();
for (Field field : fields)
if (!field.getName().startsWith(ajcMagic)
&& !field.isAnnotationPresent(DeclareWarning.class)
&& !field.isAnnotationPresent(DeclareError.class)) {
filteredFields.add(field);
}
Field[] ret = new Field[filteredFields.size()];
filteredFields.toArray(ret);
return ret;
}

```

```

}

/* (non-Javadoc)
 * @see org.aspectj.lang.reflect.AjType#getField(java.lang.String)
 */
public Field getField(String name) throws NoSuchFieldException {
    Field f = clazz.getField(name);
    if (f.getName().startsWith(ajcMagic)) throw new NoSuchFieldException(name);
    return f;
}

/* (non-Javadoc)
 * @see org.aspectj.lang.reflect.AjType#getFields()
 */
public Field[] getFields() {
    Field[] fields = clazz.getFields();
    List<Field> filteredFields = new ArrayList<Field>();
    for (Field field : fields)
        if (!field.getName().startsWith(ajcMagic)
            && !field.isAnnotationPresent(DeclareWarning.class)
            && !field.isAnnotationPresent(DeclareError.class)) {
            filteredFields.add(field);
        }
    Field[] ret = new Field[filteredFields.size()];
    filteredFields.toArray(ret);
    return ret;
}

/* (non-Javadoc)
 * @see org.aspectj.lang.reflect.AjType#getDeclaredMethod(java.lang.String, java.lang.Class...)
 */
public Method getDeclaredMethod(String name, AjType<?>... parameterTypes) throws NoSuchMethodException {
    Method m = clazz.getDeclaredMethod(name, toClassArray(parameterTypes));
    if (!isReallyAMethod(m)) throw new NoSuchMethodException(name);
    return m;
}

/* (non-Javadoc)
 * @see org.aspectj.lang.reflect.AjType#getMethod(java.lang.String, java.lang.Class...)
 */
public Method getMethod(String name, AjType<?>... parameterTypes) throws NoSuchMethodException {
    Method m = clazz.getMethod(name, toClassArray(parameterTypes));
    if (!isReallyAMethod(m)) throw new NoSuchMethodException(name);
    return m;
}

/* (non-Javadoc)
 * @see org.aspectj.lang.reflect.AjType#getDeclaredMethods()

```

```

*/
public Method[] getDeclaredMethods() {
    Method[] methods = clazz.getDeclaredMethods();
    List<Method> filteredMethods = new ArrayList<Method>();
    for (Method method : methods) {
        if (isReallyAMethod(method)) filteredMethods.add(method);
    }
    Method[] ret = new Method[filteredMethods.size()];
    filteredMethods.toArray(ret);
    return ret;
}

/* (non-Javadoc)
 * @see org.aspectj.lang.reflect.AjType#getMethods()
 */
public Method[] getMethods() {
    Method[] methods = clazz.getMethods();
    List<Method> filteredMethods = new ArrayList<Method>();
    for (Method method : methods) {
        if (isReallyAMethod(method)) filteredMethods.add(method);
    }
    Method[] ret = new Method[filteredMethods.size()];
    filteredMethods.toArray(ret);
    return ret;
}

private boolean isReallyAMethod(Method method) {
    if (method.getName().startsWith(ajcMagic)) return false;
    if (method.getAnnotations().length==0) return true;
    if (method.isAnnotationPresent(org.aspectj.lang.annotation.Pointcut.class)) return false;
    if (method.isAnnotationPresent(Before.class)) return false;
    if (method.isAnnotationPresent(After.class)) return false;
    if (method.isAnnotationPresent(AfterReturning.class)) return false;
    if (method.isAnnotationPresent(AfterThrowing.class)) return false;
    if (method.isAnnotationPresent(Around.class)) return false;
    return true;
}

/* (non-Javadoc)
 * @see org.aspectj.lang.reflect.AjType#getDeclaredPointcut(java.lang.String)
 */
public Pointcut getDeclaredPointcut(String name) throws NoSuchPointcutException {
    Pointcut[] pcs = getDeclaredPointcuts();
    for (Pointcut pc : pcs)
        if (pc.getName().equals(name)) return pc;
    throw new NoSuchPointcutException(name);
}

```

```

/* (non-Javadoc)
 * @see org.aspectj.lang.reflect.AjType#getPointcut(java.lang.String)
 */
public Pointcut getPointcut(String name) throws NoSuchPointcutException {
    Pointcut[] pcs = getPointcuts();
    for (Pointcut pc : pcs)
        if (pc.getName().equals(name)) return pc;
    throw new NoSuchPointcutException(name);
}

/* (non-Javadoc)
 * @see org.aspectj.lang.reflect.AjType#getDeclaredPointcuts()
 */
public Pointcut[] getDeclaredPointcuts() {
    if (declaredPointcuts != null) return declaredPointcuts;
    List<Pointcut> pointcuts = new ArrayList<Pointcut>();
    Method[] methods = clazz.getDeclaredMethods();
    for (Method method : methods) {
        Pointcut pc = asPointcut(method);
        if (pc != null) pointcuts.add(pc);
    }
    Pointcut[] ret = new Pointcut[pointcuts.size()];
    pointcuts.toArray(ret);
    declaredPointcuts = ret;
    return ret;
}

/* (non-Javadoc)
 * @see org.aspectj.lang.reflect.AjType#getPointcuts()
 */
public Pointcut[] getPointcuts() {
    if (pointcuts != null) return pointcuts;
    List<Pointcut> pcuts = new ArrayList<Pointcut>();
    Method[] methods = clazz.getMethods();
    for (Method method : methods) {
        Pointcut pc = asPointcut(method);
        if (pc != null) pcuts.add(pc);
    }
    Pointcut[] ret = new Pointcut[pcuts.size()];
    pcuts.toArray(ret);
    pointcuts = ret;
    return ret;
}

private Pointcut asPointcut(Method method) {
    org.aspectj.lang.annotation.Pointcut pcAnn = method.getAnnotation(org.aspectj.lang.annotation.Pointcut.class);
    if (pcAnn != null) {
        String name = method.getName();

```



```

if (name.startsWith(ajcMagic)) {
    // extract real name
    int nameStart = name.indexOf("$");
    name = name.substring(nameStart + 2, name.length());
    int nextDollar = name.indexOf("$");
    if (nextDollar != -1) name = name.substring(0, nextDollar);
}
return new
PointcutImpl(name, pcAnn.value(), method, AjTypeSystem.getAjType(method.getDeclaringClass()), pcAnn.argName
s());
} else {
    return null;
}
}

```

```

public Advice[] getDeclaredAdvice(AdviceKind... ofType) {
    Set<AdviceKind> types;
    if (ofType.length == 0) {
        types = EnumSet.allOf(AdviceKind.class);
    } else {
        types = EnumSet.noneOf(AdviceKind.class);
        types.addAll(Arrays.asList(ofType));
    }
    return getDeclaredAdvice(types);
}

```

```

public Advice[] getAdvice(AdviceKind... ofType) {
    Set<AdviceKind> types;
    if (ofType.length == 0) {
        types = EnumSet.allOf(AdviceKind.class);
    } else {
        types = EnumSet.noneOf(AdviceKind.class);
        types.addAll(Arrays.asList(ofType));
    }
    return getAdvice(types);
}

```

```

/* (non-Javadoc)
 * @see org.aspectj.lang.reflect.AjType#getDeclaredAdvice(org.aspectj.lang.reflect.AdviceType)
 */

```

```

private Advice[] getDeclaredAdvice(Set ofAdviceTypes) {
    if (declaredAdvice == null) initDeclaredAdvice();
    List<Advice> adviceList = new ArrayList<Advice>();
    for (Advice a : declaredAdvice) {
        if (ofAdviceTypes.contains(a.getKind())) adviceList.add(a);
    }
    Advice[] ret = new Advice[adviceList.size()];
}

```

```

adviceList.toArray(ret);
return ret;
}

private void initDeclaredAdvice() {
    Method[] methods = clazz.getDeclaredMethods();
    List<Advice> adviceList = new ArrayList<Advice>();
    for (Method method : methods) {
        Advice advice = asAdvice(method);
        if (advice != null) adviceList.add(advice);
    }
    declaredAdvice = new Advice[adviceList.size()];
    adviceList.toArray(declaredAdvice);
}

/* (non-Javadoc)
 * @see org.aspectj.lang.reflect.AjType#getDeclaredAdvice(org.aspectj.lang.reflect.AdviceType)
 */
private Advice[] getAdvice(Set ofAdviceTypes) {
    if (advice == null) initAdvice();
    List<Advice> adviceList = new ArrayList<Advice>();
    for (Advice a : advice) {
        if (ofAdviceTypes.contains(a.getKind())) adviceList.add(a);
    }
    Advice[] ret = new Advice[adviceList.size()];
    adviceList.toArray(ret);
    return ret;
}

private void initAdvice() {
    Method[] methods = clazz.getMethods();
    List<Advice> adviceList = new ArrayList<Advice>();
    for (Method method : methods) {
        Advice advice = asAdvice(method);
        if (advice != null) adviceList.add(advice);
    }
    advice = new Advice[adviceList.size()];
    adviceList.toArray(advice);
}

public Advice getAdvice(String name) throws NoSuchAdviceException {
    if (name.equals("")) throw new IllegalArgumentException("use getAdvice(AdviceType...) instead for un-named advice");
    if (advice == null) initAdvice();
    for (Advice a : advice) {
        if (a.getName().equals(name)) return a;
    }
}

```

```

    throw new NoSuchAdviceException(name);
}

public Advice getDeclaredAdvice(String name) throws NoSuchAdviceException {
    if (name.equals("")) throw new IllegalArgumentException("use getAdvice(AdviceType...) instead for un-named
    advice");
    if (declaredAdvice == null) initDeclaredAdvice();
    for (Advice a : declaredAdvice) {
        if (a.getName().equals(name)) return a;
    }
    throw new NoSuchAdviceException(name);
}

private Advice asAdvice(Method method) {
    if (method.getAnnotations().length == 0) return null;
    Before beforeAnn = method.getAnnotation(Before.class);
    if (beforeAnn != null) return new AdviceImpl(method,beforeAnn.value(),AdviceKind.BEFORE);
    After afterAnn = method.getAnnotation(After.class);
    if (afterAnn != null) return new AdviceImpl(method,afterAnn.value(),AdviceKind.AFTER);
    AfterReturning afterReturningAnn = method.getAnnotation(AfterReturning.class);
    if (afterReturningAnn != null) {
        String pcExpr = afterReturningAnn.pointcut();
        if (pcExpr.equals("")) pcExpr = afterReturningAnn.value();
        return new AdviceImpl(method,pcExpr,AdviceKind.AFTER_RETURNING,afterReturningAnn.returning());
    }
    AfterThrowing afterThrowingAnn = method.getAnnotation(AfterThrowing.class);
    if (afterThrowingAnn != null) {
        String pcExpr = afterThrowingAnn.pointcut();
        if (pcExpr == null) pcExpr = afterThrowingAnn.value();
        return new AdviceImpl(method,pcExpr,AdviceKind.AFTER_THROWING,afterThrowingAnn.throwing());
    }
    Around aroundAnn = method.getAnnotation(Around.class);
    if (aroundAnn != null) return new AdviceImpl(method,aroundAnn.value(),AdviceKind.AROUND);
    return null;
}

/* (non-Javadoc)
 * @see org.aspectj.lang.reflect.AjType#getDeclaredITDMethod(java.lang.String, java.lang.Class,
    java.lang.Class...)
 */
public InterTypeMethodDeclaration getDeclaredITDMethod(String name,
    AjType<?> target, AjType<?>... parameterTypes) throws NoSuchMethodException {
    InterTypeMethodDeclaration[] itdms = getDeclaredITDMethods();
    outer: for (InterTypeMethodDeclaration itdm : itdms) {
        try {
            if (!itdm.getName().equals(name)) continue;
            AjType<?> itdTarget = itdm.getTargetType();
            if (itdTarget.equals(target)) {

```

```

AjType<?>[] ptypes = itdm.getParameterTypes();
if (ptypes.length == parameterTypes.length) {
    for (int i = 0; i < ptypes.length; i++) {
        if (!ptypes[i].equals(parameterTypes[i]))
            continue outer;
    }
    return itdm;
}
}
} catch (ClassNotFoundException cnf) {
    // just move on to the next one
}
}
throw new NoSuchMethodException(name);
}

/* (non-Javadoc)
 * @see org.aspectj.lang.reflect.AjType#getDeclaredITDMethods()
 */
public InterTypeMethodDeclaration[] getDeclaredITDMethods() {
    if (this.declaredITDMethods == null) {
        List<InterTypeMethodDeclaration> itdms = new ArrayList<InterTypeMethodDeclaration>();
        Method[] baseMethods = clazz.getDeclaredMethods();
        for (Method m : baseMethods) {
            if (!m.getName().contains("ajc$interMethodDispatch1$")) continue;
            if (m.isAnnotationPresent(ajcITD.class)) {
                ajcITD ann = m.getAnnotation(ajcITD.class);
                InterTypeMethodDeclaration itdm =
                    new InterTypeMethodDeclarationImpl(
                        this,ann.targetType(),ann.modifiers(),
                        ann.name(),m);
                itdms.add(itdm);
            }
        }
        addAnnotationStyleITDMethods(itdms,false);
        this.declaredITDMethods = new InterTypeMethodDeclaration[itdms.size()];
        itdms.toArray(this.declaredITDMethods);
    }
    return this.declaredITDMethods;
}

/* (non-Javadoc)
 * @see org.aspectj.lang.reflect.AjType#getITDMethod(java.lang.String, java.lang.Class, java.lang.Class...)
 */
public InterTypeMethodDeclaration getITDMethod(String name, AjType<?> target,
    AjType<?>... parameterTypes)
throws NoSuchMethodException {
    InterTypeMethodDeclaration[] itdms = getITDMethods();

```

```

outer: for (InterTypeMethodDeclaration itdm : itdms) {
    try {
        if (!itdm.getName().equals(name)) continue;
        AjType<?> itdTarget = itdm.getTargetType();
        if (itdTarget.equals(target)) {
            AjType<?>[] ptypes = itdm.getParameterTypes();
            if (ptypes.length == parameterTypes.length) {
                for (int i = 0; i < ptypes.length; i++) {
                    if (!ptypes[i].equals(parameterTypes[i]))
                        continue outer;
                }
            }
            return itdm;
        }
    } catch (ClassNotFoundException cnf) {
        // just move on to the next one
    }
}
throw new NoSuchMethodException(name);
}

/* (non-Javadoc)
 * @see org.aspectj.lang.reflect.AjType#getITDMethods()
 */
public InterTypeMethodDeclaration[] getITDMethods() {
    if (this.itdMethods == null) {
        List<InterTypeMethodDeclaration> itdms = new ArrayList<InterTypeMethodDeclaration>();
        Method[] baseMethods = clazz.getDeclaredMethods();
        for (Method m : baseMethods) {
            if (!m.getName().contains("ajc$interMethod$")) continue;
            if (m.isAnnotationPresent(ajcITD.class)) {
                ajcITD ann = m.getAnnotation(ajcITD.class);
                if (!Modifier.isPublic(ann.modifiers())) continue;
                InterTypeMethodDeclaration itdm =
                    new InterTypeMethodDeclarationImpl(
                        this,ann.targetType(),ann.modifiers(),
                        ann.name(),m);
                itdms.add(itdm);
            }
        }
        addAnnotationStyleITDMethods(itdms,true);
        this.itdMethods = new InterTypeMethodDeclaration[itdms.size()];
        itdms.toArray(this.itdMethods);
    }
    return this.itdMethods;
}

private void addAnnotationStyleITDMethods(List<InterTypeMethodDeclaration> toList, boolean publicOnly) {

```

```

if (isAspect()) {
    for (Field f : clazz.getDeclaredFields()) {
        if (!f.getType().isInterface()) continue;
        if (f.isAnnotationPresent(org.aspectj.lang.annotation.DeclareParents.class)) {
            Class<org.aspectj.lang.annotation.DeclareParents> decPAnnClass =
org.aspectj.lang.annotation.DeclareParents.class;
            org.aspectj.lang.annotation.DeclareParents decPAnn = f.getAnnotation(decPAnnClass);
            if (decPAnn.defaultImpl() == decPAnnClass) continue; // doesn't contribute members...
            for (Method itdM : f.getType().getDeclaredMethods()) {
                if (!Modifier.isPublic(itdM.getModifiers()) && publicOnly) continue;
                InterTypeMethodDeclaration itdm = new InterTypeMethodDeclarationImpl(
                    this, AjTypeSystem.getAjType(f.getType()), itdM,
                    Modifier.PUBLIC
                );
                toList.add(itdm);
            }
        }
    }
}

private void addAnnotationStyleITDFields(List<InterTypeFieldDeclaration> toList, boolean publicOnly) {
    //AV: I think it is meaningless
    //@AJ decp is interface driven ie no field
    return;
}

/* (non-Javadoc)
 * @see org.aspectj.lang.reflect.AjType#getDeclaredITDConstructor(java.lang.Class, java.lang.Class...)
 */
public InterTypeConstructorDeclaration getDeclaredITDConstructor(
    AjType<?> target, AjType<?>... parameterTypes) throws NoSuchMethodException {
    InterTypeConstructorDeclaration[] itdcs = getDeclaredITDConstructors();
    outer: for (InterTypeConstructorDeclaration itdc : itdcs) {
        try {
            AjType<?> itdTarget = itdc.getTargetType();
            if (itdTarget.equals(target)) {
                AjType<?>[] ptypes = itdc.getParameterTypes();
                if (ptypes.length == parameterTypes.length) {
                    for (int i = 0; i < ptypes.length; i++) {
                        if (!ptypes[i].equals(parameterTypes[i]))
                            continue outer;
                    }
                }
                return itdc;
            }
        }
    }
} catch (ClassNotFoundException cnf) {
    // just move on to the next one
}

```

```

    }
    }
    throw new NoSuchMethodException();
}

/* (non-Javadoc)
 * @see org.aspectj.lang.reflect.AjType#getDeclaredITDConstructors()
 */
public InterTypeConstructorDeclaration[] getDeclaredITDConstructors() {
    if (this.declaredITDCons == null) {
        List<InterTypeConstructorDeclaration> itdcs = new ArrayList<InterTypeConstructorDeclaration>();
        Method[] baseMethods = clazz.getDeclaredMethods();
        for (Method m : baseMethods) {
            if (!m.getName().contains("ajc$postInterConstructor")) continue;
            if (m.isAnnotationPresent(ajcITD.class)) {
                ajcITD ann = m.getAnnotation(ajcITD.class);
                InterTypeConstructorDeclaration itdc =
                    new InterTypeConstructorDeclarationImpl(this,ann.targetType(),ann.modifiers(),m);
                itdcs.add(itdc);
            }
        }
        this.declaredITDCons = new InterTypeConstructorDeclaration[itdcs.size()];
        itdcs.toArray(this.declaredITDCons);
    }
    return this.declaredITDCons;
}

/* (non-Javadoc)
 * @see org.aspectj.lang.reflect.AjType#getITDConstructor(java.lang.Class, java.lang.Class...)
 */
public InterTypeConstructorDeclaration getITDConstructor(AjType<?> target,
    AjType<?>... parameterTypes) throws NoSuchMethodException {
    InterTypeConstructorDeclaration[] itdcs = getITDConstructors();
    outer: for (InterTypeConstructorDeclaration itdc : itdcs) {
        try {
            AjType<?> itdTarget = itdc.getTargetType();
            if (itdTarget.equals(target)) {
                AjType<?>[] ptypes = itdc.getParameterTypes();
                if (ptypes.length == parameterTypes.length) {
                    for (int i = 0; i < ptypes.length; i++) {
                        if (!ptypes[i].equals(parameterTypes[i]))
                            continue outer;
                    }
                }
                return itdc;
            }
        }
    }
    } catch (ClassNotFoundException cnf) {
        // just move on to the next one
    }
}

```

```

    }
    }
    throw new NoSuchMethodException();
}

/* (non-Javadoc)
 * @see org.aspectj.lang.reflect.AjType#getITDConstructors()
 */
public InterTypeConstructorDeclaration[] getITDConstructors() {
    if (this.itdCons == null) {
        List<InterTypeConstructorDeclaration> itdcs = new ArrayList<InterTypeConstructorDeclaration>();
        Method[] baseMethods = clazz.getMethods();
        for (Method m : baseMethods) {
            if (!m.getName().contains("ajc$postInterConstructor")) continue;
            if (m.isAnnotationPresent(ajcITD.class)) {
                ajcITD ann = m.getAnnotation(ajcITD.class);
                if (!Modifier.isPublic(ann.modifiers())) continue;
                InterTypeConstructorDeclaration itdc =
                    new InterTypeConstructorDeclarationImpl(this,ann.targetType(),ann.modifiers(),m);
                itdcs.add(itdc);
            }
        }
        this.itdCons = new InterTypeConstructorDeclaration[itdcs.size()];
        itdcs.toArray(this.itdCons);
    }
    return this.itdCons; }

/* (non-Javadoc)
 * @see org.aspectj.lang.reflect.AjType#getDeclaredITDField(java.lang.String, java.lang.Class)
 */
public InterTypeFieldDeclaration getDeclaredITDField(String name,
    AjType<?> target) throws NoSuchFieldException {
    InterTypeFieldDeclaration[] itdfs = getDeclaredITDFields();
    for (InterTypeFieldDeclaration itdf : itdfs) {
        if (itdf.getName().equals(name)) {
            try {
                AjType<?> itdTarget = itdf.getTargetType();
                if (itdTarget.equals(target)) return itdf;
            } catch (ClassNotFoundException cnfEx) {
                // move on to next field
            }
        }
    }
    throw new NoSuchFieldException(name);
}

/* (non-Javadoc)
 * @see org.aspectj.lang.reflect.AjType#getDeclaredITDFields()

```



```

*/
public InterTypeFieldDeclaration[] getDeclaredITDFields() {
    List<InterTypeFieldDeclaration> itdfs = new ArrayList<InterTypeFieldDeclaration>();
    if (this.declaredITDFields == null) {
        Method[] baseMethods = clazz.getDeclaredMethods();
        for(Method m : baseMethods) {
            if (m.isAnnotationPresent(ajcITD.class)) {
                if (!m.getName().contains("ajc$interFieldInit")) continue;
                ajcITD ann = m.getAnnotation(ajcITD.class);
                String interFieldInitMethodName = m.getName();
                String interFieldGetDispatchMethodName =
                    interFieldInitMethodName.replace("FieldInit", "FieldGetDispatch");
                try {
                    Method dispatch = clazz.getDeclaredMethod(interFieldGetDispatchMethodName, m.getParameterTypes());
                    InterTypeFieldDeclaration itdf = new InterTypeFieldDeclarationImpl(
                        this, ann.targetType(), ann.modifiers(), ann.name(),
                        AjTypeSystem.getAjType(dispatch.getReturnType()),
                        dispatch.getGenericReturnType());
                    itdfs.add(itdf);
                } catch (NoSuchMethodException nsmEx) {
                    throw new IllegalStateException("Can't find field get dispatch method for " + m.getName());
                }
            }
        }
        addAnnotationStyleITDFields(itdfs, false);
        this.declaredITDFields = new InterTypeFieldDeclaration[itdfs.size()];
        itdfs.toArray(this.declaredITDFields);
    }
    return this.declaredITDFields;
}

/* (non-Javadoc)
 * @see org.aspectj.lang.reflect.AjType#getITDField(java.lang.String, java.lang.Class)
 */
public InterTypeFieldDeclaration getITDField(String name, AjType<?> target)
throws NoSuchFieldException {
    InterTypeFieldDeclaration[] itdfs = getITDFields();
    for (InterTypeFieldDeclaration itdf : itdfs) {
        if (itdf.getName().equals(name)) {
            try {
                AjType<?> itdTarget = itdf.getTargetType();
                if (itdTarget.equals(target)) return itdf;
            } catch (ClassNotFoundException cnfEx) {
                // move on to next field
            }
        }
    }
    throw new NoSuchFieldException(name);
}

```

```

}

/* (non-Javadoc)
 * @see org.aspectj.lang.reflect.AjType#getITDFields()
 */
public InterTypeFieldDeclaration[] getITDFields() {
    List<InterTypeFieldDeclaration> itdfs = new ArrayList<InterTypeFieldDeclaration>();
    if (this.itdFields == null) {
        Method[] baseMethods = clazz.getMethods();
        for(Method m : baseMethods) {
            if (m.isAnnotationPresent(ajcITD.class)) {
                ajcITD ann = m.getAnnotation(ajcITD.class);
                if (!m.getName().contains("ajc$interFieldInit")) continue;
                if (!Modifier.isPublic(ann.modifiers())) continue;
                String interFieldInitMethodName = m.getName();
                String interFieldGetDispatchMethodName =
                    interFieldInitMethodName.replace("FieldInit", "FieldGetDispatch");
                try {
                    Method dispatch = m.getDeclaringClass().getDeclaredMethod(interFieldGetDispatchMethodName,
m.getParameterTypes());
                    InterTypeFieldDeclaration itdf = new InterTypeFieldDeclarationImpl(
                        this,ann.targetType(),ann.modifiers(),ann.name(),
                        AjTypeSystem.getAjType(dispatch.getReturnType()),
                        dispatch.getGenericReturnType());
                    itdfs.add(itdf);
                } catch (NoSuchMethodException nsmEx) {
                    throw new IllegalStateException("Can't find field get dispatch method for " + m.getName());
                }
            }
        }
        addAnnotationStyleITDFields(itdfs, true);
        this.itdFields = new InterTypeFieldDeclaration[itdfs.size()];
        itdfs.toArray(this.itdFields);
    }
    return this.itdFields;
}

```

```

/* (non-Javadoc)
 * @see org.aspectj.lang.reflect.AjType#getDeclareErrorOrWarnings()
 */
public DeclareErrorOrWarning[] getDeclareErrorOrWarnings() {
    List<DeclareErrorOrWarning> deows = new ArrayList<DeclareErrorOrWarning>();
    for (Field field : clazz.getDeclaredFields()) {
        try {
            if (field.isAnnotationPresent(DeclareWarning.class)) {
                DeclareWarning dw = field.getAnnotation(DeclareWarning.class);
                if (Modifier.isPublic(field.getModifiers()) && Modifier.isStatic(field.getModifiers())) {
                    String message = (String) field.get(null);

```

```

    DeclareErrorOrWarningImpl deow = new DeclareErrorOrWarningImpl(dw.value(),message,false,this);
    deows.add(deow);
}
} else if (field.isAnnotationPresent(DeclareError.class)) {
    DeclareError de = field.getAnnotation(DeclareError.class);
    if (Modifier.isPublic(field.getModifiers()) && Modifier.isStatic(field.getModifiers())) {
        String message = (String) field.get(null);
        DeclareErrorOrWarningImpl deow = new DeclareErrorOrWarningImpl(de.value(),message,true,this);
        deows.add(deow);
    }
}
} catch (IllegalArgumentException e) {
    // just move on to the next field
} catch (IllegalAccessException e) {
    // just move on to the next field
}
}
for (Method method : clazz.getDeclaredMethods()) {
    if (method.isAnnotationPresent(ajcDeclareEoW.class)) {
        ajcDeclareEoW deowAnn = method.getAnnotation(ajcDeclareEoW.class);
        DeclareErrorOrWarning deow = new
DeclareErrorOrWarningImpl(deowAnn.pointcut(),deowAnn.message(),deowAnn.isError(),this);
        deows.add(deow);
    }
}
DeclareErrorOrWarning[] ret = new DeclareErrorOrWarning[deows.size()];
deows.toArray(ret);
return ret;
}

/* (non-Javadoc)
 * @see org.aspectj.lang.reflect.AjType#getDeclareParents()
 */
public DeclareParents[] getDeclareParents() {
    List<DeclareParents> decps = new ArrayList<DeclareParents>();
    for (Method method : clazz.getDeclaredMethods()) {
        if (method.isAnnotationPresent(ajcDeclareParents.class)) {
            ajcDeclareParents decPAnn = method.getAnnotation(ajcDeclareParents.class);
            DeclareParentsImpl decp = new DeclareParentsImpl(
                decPAnn.targetTypePattern(),
                decPAnn.parentTypes(),
                decPAnn.isExtends(),
                this
            );
            decps.add(decp);
        }
    }
    addAnnotationStyleDeclareParents(decps);
}

```

```

if (getSupertype().isAspect()) {
    decps.addAll(Arrays.asList(getSupertype().getDeclareParents()));
}
DeclareParents[] ret = new DeclareParents[decps.size()];
decps.toArray(ret);
return ret;
}

private void addAnnotationStyleDeclareParents(List<DeclareParents> toList) {
    for (Field f : clazz.getDeclaredFields()) {
        if (f.isAnnotationPresent(org.aspectj.lang.annotation.DeclareParents.class)) {
            if (!f.getType().isInterface()) continue;
            org.aspectj.lang.annotation.DeclareParents ann =
f.getAnnotation(org.aspectj.lang.annotation.DeclareParents.class);
            String parentType = f.getType().getName();
            DeclareParentsImpl decp = new DeclareParentsImpl(
                ann.value(),
                parentType,
                false,
                this
            );
            toList.add(decp);
        }
    }
}

/* (non-Javadoc)
 * @see org.aspectj.lang.reflect.AjType#getDeclareSofts()
 */
public DeclareSoft[] getDeclareSofts() {
    List<DeclareSoft> decs = new ArrayList<DeclareSoft>();
    for (Method method : clazz.getDeclaredMethods()) {
        if (method.isAnnotationPresent(ajcDeclareSoft.class)) {
            ajcDeclareSoft decSAnn = method.getAnnotation(ajcDeclareSoft.class);
            DeclareSoftImpl ds = new DeclareSoftImpl(
                this,
                decSAnn.pointcut(),
                decSAnn.exceptionType()
            );
            decs.add(ds);
        }
    }
    if (getSupertype().isAspect()) {
        decs.addAll(Arrays.asList(getSupertype().getDeclareSofts()));
    }
    DeclareSoft[] ret = new DeclareSoft[decs.size()];
    decs.toArray(ret);
    return ret;
}

```

```

}

/* (non-Javadoc)
 * @see org.aspectj.lang.reflect.AjType#getDeclareAnnotations()
 */
public DeclareAnnotation[] getDeclareAnnotations() {
    List<DeclareAnnotation> decAs = new ArrayList<DeclareAnnotation>();
    for (Method method : clazz.getDeclaredMethods()) {
        if (method.isAnnotationPresent(ajcDeclareAnnotation.class)) {
            ajcDeclareAnnotation decAnn = method.getAnnotation(ajcDeclareAnnotation.class);
            // the target annotation is on this method...
            Annotation targetAnnotation = null;
            Annotation[] anns = method.getAnnotations();
            for (Annotation ann: anns) {
                if (ann.annotationType() != ajcDeclareAnnotation.class) {
                    // this must be the one...
                    targetAnnotation = ann;
                    break;
                }
            }
            DeclareAnnotationImpl da = new DeclareAnnotationImpl(
                this,
                decAnn.kind(),
                decAnn.pattern(),
                targetAnnotation,
                decAnn.annotation()
            );
            decAs.add(da);
        }
    }
    if (getSupertype().isAspect()) {
        decAs.addAll(Arrays.asList(getSupertype().getDeclareAnnotations()));
    }
    DeclareAnnotation[] ret = new DeclareAnnotation[decAs.size()];
    decAs.toArray(ret);
    return ret;
}

/* (non-Javadoc)
 * @see org.aspectj.lang.reflect.AjType#getDeclarePrecedence()
 */
public DeclarePrecedence[] getDeclarePrecedence() {
    List<DeclarePrecedence> decps = new ArrayList<DeclarePrecedence>();

    // @AspectJ Style
    if (clazz.isAnnotationPresent(org.aspectj.lang.annotation.DeclarePrecedence.class)) {
        org.aspectj.lang.annotation.DeclarePrecedence ann =
            clazz.getAnnotation(org.aspectj.lang.annotation.DeclarePrecedence.class);
    }
}

```

```

DeclarePrecedenceImpl decp = new DeclarePrecedenceImpl(
    ann.value(),
    this
);
decps.add(decp);
}

// annotated code-style
for (Method method : clazz.getDeclaredMethods()) {
    if (method.isAnnotationPresent(ajcDeclarePrecedence.class)) {
        ajcDeclarePrecedence decPAnn = method.getAnnotation(ajcDeclarePrecedence.class);
        DeclarePrecedenceImpl decp = new DeclarePrecedenceImpl(
            decPAnn.value(),
            this
        );
        decps.add(decp);
    }
}
if (getSupertype().isAspect()) {
    decps.addAll(Arrays.asList(getSupertype().getDeclarePrecedence()));
}
DeclarePrecedence[] ret = new DeclarePrecedence[decps.size()];
decps.toArray(ret);
return ret;
}

/* (non-Javadoc)
 * @see org.aspectj.lang.reflect.AjType#getEnumConstants()
 */
public T[] getEnumConstants() {
    return clazz.getEnumConstants();
}

/* (non-Javadoc)
 * @see org.aspectj.lang.reflect.AjType#getTypeParameters()
 */
public TypeVariable<Class<T>>[] getTypeParameters() {
    return clazz.getTypeParameters();
}

/* (non-Javadoc)
 * @see org.aspectj.lang.reflect.AjType#isEnum()
 */
public boolean isEnum() {
    return clazz.isEnum();
}

/* (non-Javadoc)

```

```

* @see org.aspectj.lang.reflect.AjType#isInstance(java.lang.Object)
*/
public boolean isInstance(Object o) {
    return clazz.isInstance(o);
}

/* (non-Javadoc)
* @see org.aspectj.lang.reflect.AjType#isInterface()
*/
public boolean isInterface() {
    return clazz.isInterface();
}

/* (non-Javadoc)
* @see org.aspectj.lang.reflect.AjType#isLocalClass()
*/
public boolean isLocalClass() {
    return clazz.isLocalClass() && !isAspect();
}

/* (non-Javadoc)
* @see org.aspectj.lang.reflect.AjType#isMemberClass()
*/
public boolean isMemberClass() {
    return clazz.isMemberClass() && !isAspect();
}

/* (non-Javadoc)
* @see org.aspectj.lang.reflect.AjType#isArray()
*/
public boolean isArray() {
    return clazz.isArray();
}

/* (non-Javadoc)
* @see org.aspectj.lang.reflect.AjType#isPrimitive()
*/
public boolean isPrimitive() {
    return clazz.isPrimitive();
}

/* (non-Javadoc)
* @see org.aspectj.lang.reflect.AjType#isAspect()
*/
public boolean isAspect() {
    return clazz.getAnnotation(Aspect.class) != null;
}

```

```

/* (non-Javadoc)
 * @see org.aspectj.lang.reflect.AjType#isMemberAspect()
 */
public boolean isMemberAspect() {
    return clazz.isMemberClass() && isAspect();
}

public boolean isPrivileged() {
    return isAspect() && clazz.isAnnotationPresent(ajcPrivileged.class);
}

@Override
public boolean equals(Object obj) {
    if (!(obj instanceof AjTypeImpl)) return false;
    AjTypeImpl other = (AjTypeImpl) obj;
    return other.clazz.equals(clazz);
}

@Override
public int hashCode() {
    return clazz.hashCode();
}

private AjType<?>[] toAjTypeArray(Class<?>[] classes) {
    AjType<?>[] ajtypes = new AjType<?>[classes.length];
    for (int i = 0; i < ajtypes.length; i++) {
        ajtypes[i] = AjTypeSystem.getAjType(classes[i]);
    }
    return ajtypes;
}

private Class<?>[] toClassArray(AjType<?>[] ajTypes) {
    Class<?>[] classes = new Class<?>[ajTypes.length];
    for (int i = 0; i < classes.length; i++) {
        classes[i] = ajTypes[i].getJavaClass();
    }
    return classes;
}

public String toString() { return getName(); }

}
/* *****
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 * This program and the accompanying materials are made available
 * under the terms of the Eclipse Public License v1.0
 * which accompanies this distribution and is available at

```



```

* http://eclipse.org/legal/epl-v10.html
*
* Contributors:
* Adrian Colyer Initial implementation
* *****/
package org.aspectj.internal.lang.reflect;

import java.lang.annotation.Annotation;

import org.aspectj.lang.reflect.AjType;
import org.aspectj.lang.reflect.DeclareAnnotation;
import org.aspectj.lang.reflect.SignaturePattern;
import org.aspectj.lang.reflect.TypePattern;

/**
 * @author colyer
 *
 */
public class DeclareAnnotationImpl implements DeclareAnnotation {

    private Annotation theAnnotation;
    private String annText;
    private AjType<?> declaringType;
    private DeclareAnnotation.Kind kind;
    private TypePattern typePattern;
    private SignaturePattern signaturePattern;

    public DeclareAnnotationImpl(AjType<?> declaring, String kindString, String pattern, Annotation ann, String
annText) {
        this.declaringType = declaring;
        if (kindString.equals("at_type")) this.kind = DeclareAnnotation.Kind.Type;
        else if (kindString.equals("at_field")) this.kind = DeclareAnnotation.Kind.Field;
        else if (kindString.equals("at_method")) this.kind = DeclareAnnotation.Kind.Method;
        else if (kindString.equals("at_constructor")) this.kind = DeclareAnnotation.Kind.Constructor;
        else throw new IllegalStateException("Unknown declare annotation kind: " + kindString);
        if (kind == DeclareAnnotation.Kind.Type) {
            this.typePattern = new TypePatternImpl(pattern);
        } else {
            this.signaturePattern = new SignaturePatternImpl(pattern);
        }
        this.theAnnotation = ann;
        this.annText = annText;
    }

    /* (non-Javadoc)
     * @see org.aspectj.lang.reflect.DeclareAnnotation#getDeclaringType()
     */
    public AjType<?> getDeclaringType() {

```

```

return this.declaringType;
}

/* (non-Javadoc)
 * @see org.aspectj.lang.reflect.DeclareAnnotation#getKind()
 */
public Kind getKind() {
return this.kind;
}

/* (non-Javadoc)
 * @see org.aspectj.lang.reflect.DeclareAnnotation#getSignaturePattern()
 */
public SignaturePattern getSignaturePattern() {
return this.signaturePattern;
}

/* (non-Javadoc)
 * @see org.aspectj.lang.reflect.DeclareAnnotation#getTypePattern()
 */
public TypePattern getTypePattern() {
return this.typePattern;
}

/* (non-Javadoc)
 * @see org.aspectj.lang.reflect.DeclareAnnotation#getAnnotation()
 */
public Annotation getAnnotation() {
return this.theAnnotation;
}

public String getAnnotationAsText() {
return this.annText;
}

public String toString() {
StringBuffer sb = new StringBuffer();
sb.append("declare @");
switch(getKind()) {
case Type:
sb.append("type : ");
sb.append(getTypePattern().asString());
break;
case Method:
sb.append("method : ");
sb.append(getSignaturePattern().asString());
break;
case Field:

```

```

        sb.append("field : ");
        sb.append(getSignaturePattern().asString());
        break;
    case Constructor:
        sb.append("constructor : ");
        sb.append(getSignaturePattern().asString());
        break;
    }
    sb.append(" : ");
    sb.append(getAnnotationAsText());
    return sb.toString();
}

}

/* *****
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 * under the terms of the Eclipse Public License v1.0
 * which accompanies this distribution and is available at
 * http://eclipse.org/legal/epl-v10.html
 *
 * Contributors:
 * Adrian Colyer Initial implementation
 * *****/
package org.aspectj.internal.lang.reflect;

import org.aspectj.lang.reflect.AjType;
import org.aspectj.lang.reflect.DeclareErrorOrWarning;
import org.aspectj.lang.reflect.PointcutExpression;

/**
 * @author colyer
 *
 */
public class DeclareErrorOrWarningImpl implements DeclareErrorOrWarning {

    private PointcutExpression pc;
    private String msg;
    private boolean isError;
    private AjType declaringType;

    public DeclareErrorOrWarningImpl(String pointcut, String message, boolean isError, AjType decType) {
        this.pc = new PointcutExpressionImpl(pointcut);
        this.msg = message;
        this.isError = isError;
        this.declaringType = decType;
    }
}

```

```

public AjType getDeclaringType() { return this.declaringType; }

/* (non-Javadoc)
 * @see org.aspectj.lang.reflect.DeclareErrorOrWarning#getPointcutExpression()
 */
public PointcutExpression getPointcutExpression() {
    return pc;
}

/* (non-Javadoc)
 * @see org.aspectj.lang.reflect.DeclareErrorOrWarning#getMessage()
 */
public String getMessage() {
    return msg;
}

/* (non-Javadoc)
 * @see org.aspectj.lang.reflect.DeclareErrorOrWarning#isError()
 */
public boolean isError() {
    return isError;
}

public String toString() {
    StringBuffer sb = new StringBuffer();
    sb.append("declare ");
    sb.append(isError() ? "error : " : "warning : ");
    sb.append(getPointcutExpression().asString());
    sb.append(" : ");
    sb.append("\n");
    sb.append(getMessage());
    sb.append("\n");
    return sb.toString();
}

}

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 * under the terms of the Eclipse Public License v1.0
 * which accompanies this distribution and is available at
 * http://eclipse.org/legal/epl-v10.html
 *
 * Contributors:
 * Adrian Colyer Initial implementation
 * *****/

```

```

package org.aspectj.internal.lang.reflect;

import java.lang.reflect.Type;

import org.aspectj.lang.reflect.AjType;
import org.aspectj.lang.reflect.DeclareParents;
import org.aspectj.lang.reflect.TypePattern;

/**
 * @author colyer
 *
 */
public class DeclareParentsImpl implements DeclareParents {

    private AjType<?> declaringType;
    private TypePattern targetTypePattern;
    private Type[] parents;
    private String parentsString;
    private String firstMissingTypeName;
    private boolean isExtends;
    private boolean parentsError = false;

    /**
     * Parents arg is a comma-separated list of type names that needs to be turned into
     * AjTypes
     */
    public DeclareParentsImpl(String targets, String parentsAsString, boolean isExtends, AjType<?> declaring)
    {
        this.targetTypePattern = new TypePatternImpl(targets);
        this.isExtends = isExtends;
        this.declaringType = declaring;
        this.parentsString = parentsAsString;
        try {
            this.parents = StringToType.commaSeparatedListToTypeArray(parentsAsString, declaring.getJavaClass());
        } catch (ClassNotFoundException cnfEx) {
            this.parentsError = true;
            this.firstMissingTypeName = cnfEx.getMessage();
        }
    }

    /** (non-Javadoc)
     * @see org.aspectj.lang.reflect.DeclareParents#getDeclaringType()
     */
    public AjType getDeclaringType() {
        return this.declaringType;
    }

    /** (non-Javadoc)

```

```

* @see org.aspectj.lang.reflect.DeclareParents#getTargetTypesPattern()
*/
public TypePattern getTargetTypesPattern() {
    return this.targetTypesPattern;
}

/* (non-Javadoc)
* @see org.aspectj.lang.reflect.DeclareParents#isExtends()
*/
public boolean isExtends() {
    return this.isExtends;
}

/* (non-Javadoc)
* @see org.aspectj.lang.reflect.DeclareParents#isImplements()
*/
public boolean isImplements() {
    return !this.isExtends;
}

/* (non-Javadoc)
* @see org.aspectj.lang.reflect.DeclareParents#getParentTypes()
*/
public Type[] getParentTypes() throws ClassNotFoundException {
    if (parentsError) {
        throw new ClassNotFoundException(this.firstMissingTypeName);
    }
    return this.parents;
}

public String toString() {
    StringBuffer sb = new StringBuffer();
    sb.append("declare parents : ");
    sb.append(getTargetTypesPattern().asString());
    sb.append(isExtends() ? " extends " : " implements ");
    sb.append(this.parentsString);
    return sb.toString();
}
}

/* *****
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* This program and the accompanying materials are made available
* under the terms of the Eclipse Public License v1.0
* which accompanies this distribution and is available at
* http://eclipse.org/legal/epl-v10.html
*
* Contributors:

```

```

* Adrian Colyer Initial implementation
* *****/
package org.aspectj.internal.lang.reflect;

import java.util.StringTokenizer;

import org.aspectj.lang.reflect.AjType;
import org.aspectj.lang.reflect.DeclarePrecedence;
import org.aspectj.lang.reflect.TypePattern;

/**
 * @author colyer
 *
 */
public class DeclarePrecedenceImpl implements DeclarePrecedence {

    private AjType<?> declaringType;
    private TypePattern[] precedenceList;
    private String precedenceString;

    public DeclarePrecedenceImpl(String precedenceList, AjType declaring) {
        this.declaringType = declaring;
        this.precedenceString = precedenceList;
        String toTokenize = precedenceList;
        if (toTokenize.startsWith("(")) {
            toTokenize = toTokenize.substring(1,toTokenize.length() - 1);
        }
        StringTokenizer strTok = new StringTokenizer(toTokenize, ",");
        this.precedenceList = new TypePattern[strTok.countTokens()];
        for (int i = 0; i < this.precedenceList.length; i++) {
            this.precedenceList[i] = new TypePatternImpl(strTok.nextToken().trim());
        }
    }

    /** (non-Javadoc)
     * @see org.aspectj.lang.reflect.DeclarePrecedence#getDeclaringType()
     */
    public AjType getDeclaringType() {
        return this.declaringType;
    }

    /** (non-Javadoc)
     * @see org.aspectj.lang.reflect.DeclarePrecedence#getPrecedenceOrder()
     */
    public TypePattern[] getPrecedenceOrder() {
        return this.precedenceList;
    }
}

```

```

public String toString() {
    return "declare precedence : " + this.precedenceString;
}

}

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* Contributors:
* Adrian Colyer Initial implementation
* *****/
package org.aspectj.internal.lang.reflect;

import org.aspectj.lang.reflect.AjType;
import org.aspectj.lang.reflect.AjTypeSystem;
import org.aspectj.lang.reflect.DeclareSoft;
import org.aspectj.lang.reflect.PointcutExpression;

/**
 * @author colyer
 *
 */
public class DeclareSoftImpl implements DeclareSoft {

    private AjType<?> declaringType;
    private PointcutExpression pointcut;
    private AjType<?> exceptionType;
    private String missingTypeName;

    public DeclareSoftImpl(AjType<?> declaringType, String pcut, String exceptionTypeName) {
        this.declaringType = declaringType;
        this.pointcut = new PointcutExpressionImpl(pcut);
        try {
            ClassLoader cl = declaringType.getJavaClass().getClassLoader();
            this.exceptionType = AjTypeSystem.getAjType(Class.forName(exceptionTypeName,false,cl));
        } catch (ClassNotFoundException ex) {
            this.missingTypeName = exceptionTypeName;
        }
    }

    /** (non-Javadoc)
     * @see org.aspectj.lang.reflect.DeclareSoft#getDeclaringType()

```



```

*/
public AjType getDeclaringType() {
    return this.declaringType;
}

/* (non-Javadoc)
 * @see org.aspectj.lang.reflect.DeclareSoft#getSoftenedExceptionType()
 */
public AjType getSoftenedExceptionType() throws ClassNotFoundException {
    if (this.missingTypeName != null) throw new ClassNotFoundException(this.missingTypeName);
    return this.exceptionType;
}

/* (non-Javadoc)
 * @see org.aspectj.lang.reflect.DeclareSoft#getPointcutExpression()
 */
public PointcutExpression getPointcutExpression() {
    return this.pointcut;
}

public String toString() {
    StringBuffer sb = new StringBuffer();
    sb.append("declare soft : ");
    if (this.missingTypeName != null) {
        sb.append(this.exceptionType.getName());
    } else {
        sb.append(this.missingTypeName);
    }
    sb.append(" : ");
    sb.append(getPointcutExpression().asString());
    return sb.toString();
}
}

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 * *****/
package org.aspectj.internal.lang.reflect;

import java.lang.reflect.Method;
import java.lang.reflect.Type;

```

```

import org.aspectj.lang.reflect.AjType;
import org.aspectj.lang.reflect.AjTypeSystem;
import org.aspectj.lang.reflect.InterTypeConstructorDeclaration;

/**
 * @author colyer
 *
 */
public class InterTypeConstructorDeclarationImpl extends
    InterTypeDeclarationImpl implements InterTypeConstructorDeclaration {

    private Method baseMethod;

    /**
     * @param decType
     * @param target
     * @param mods
     */
    public InterTypeConstructorDeclarationImpl(AjType<?> decType,
        String target, int mods, Method baseMethod) {
        super(decType, target, mods);
        this.baseMethod = baseMethod;
    }

    /* (non-Javadoc)
     * @see org.aspectj.lang.reflect.InterTypeConstructorDeclaration#getParameters()
     */
    public AjType<?>[] getParameterTypes() {
        Class<?>[] baseTypes = baseMethod.getParameterTypes();
        AjType<?>[] ret = new AjType<?>[baseTypes.length-1];
        for (int i = 1; i < baseTypes.length; i++) {
            ret[i-1] = AjTypeSystem.getAjType(baseTypes[i]);
        }
        return ret;
    }

    /* (non-Javadoc)
     * @see org.aspectj.lang.reflect.InterTypeConstructorDeclaration#getGenericParameters()
     */
    public Type[] getGenericParameterTypes() {
        Type[] baseTypes = baseMethod.getGenericParameterTypes();
        Type[] ret = new AjType<?>[baseTypes.length-1];
        for (int i = 1; i < baseTypes.length; i++) {
            if (baseTypes[i] instanceof Class) {
                ret[i-1] = AjTypeSystem.getAjType((Class<?>)baseTypes[i]);
            } else {
                ret[i-1] = baseTypes[i];
            }
        }
    }
}

```

```

    }
    }
    return ret;
}

/* (non-Javadoc)
 * @see org.aspectj.lang.reflect.InterTypeConstructorDeclaration#getDeclaredExceptionTypes()
 */
public AjType<?>[] getExceptionTypes() {
    Class<?>[] baseTypes = baseMethod.getExceptionTypes();
    AjType<?>[] ret = new AjType<?>[baseTypes.length];
    for (int i = 0; i < baseTypes.length; i++) {
        ret[i] = AjTypeSystem.getAjType(baseTypes[i]);
    }
    return ret;
}

public String toString() {
    StringBuffer sb = new StringBuffer();
    sb.append(java.lang.reflect.Modifier.toString(getModifiers()));
    sb.append(" ");
    sb.append(this.targetTypeName);
    sb.append(".new");
    sb.append("(");
    AjType<?>[] pTypes = getParameterTypes();
    for(int i = 0; i < (pTypes.length - 1); i++) {
        sb.append(pTypes[i].toString());
        sb.append(", ");
    }
    if (pTypes.length > 0) {
        sb.append(pTypes[pTypes.length - 1].toString());
    }
    sb.append(")");
    return sb.toString();
}

}

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 * *****/

```

```

package org.aspectj.internal.lang.reflect;

import org.aspectj.lang.reflect.AjType;
import org.aspectj.lang.reflect.InterTypeDeclaration;

/**
 * @author colyer
 *
 */
public class InterTypeDeclarationImpl implements InterTypeDeclaration {

    private AjType<?> declaringType;
    protected String targetTypeName;
    private AjType<?> targetType;
    private int modifiers;

    public InterTypeDeclarationImpl(AjType<?> decType, String target, int mods) {
        this.declaringType = decType;
        this.targetTypeName = target;
        this.modifiers = mods;
        try {
            this.targetType = (AjType<?>) StringToType.stringToType(target, decType.getJavaClass());
        } catch (ClassNotFoundException cnf) {
            // we'll only report this later if the user asks for the target type.
        }
    }

    public InterTypeDeclarationImpl(AjType<?> decType, AjType<?> targetType, int mods) {
        this.declaringType = decType;
        this.targetType = targetType;
        this.targetTypeName = targetType.getName();
        this.modifiers = mods;
    }

    /** (non-Javadoc)
     * @see org.aspectj.lang.reflect.InterTypeDeclaration#getDeclaringType()
     */
    public AjType<?> getDeclaringType() {
        return this.declaringType;
    }

    /** (non-Javadoc)
     * @see org.aspectj.lang.reflect.InterTypeDeclaration#getTargetType()
     */
    public AjType<?> getTargetType() throws ClassNotFoundException {
        if (this.targetType == null) throw new ClassNotFoundException(this.targetTypeName);
        return this.targetType;
    }
}

```

```

/* (non-Javadoc)
 * @see org.aspectj.lang.reflect.InterTypeDeclaration#getModifiers()
 */
public int getModifiers() {
    return this.modifiers;
}

}

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 * *****/
package org.aspectj.internal.lang.reflect;

import java.lang.reflect.Field;
import java.lang.reflect.Type;

import org.aspectj.lang.reflect.AjType;
import org.aspectj.lang.reflect.AjTypeSystem;
import org.aspectj.lang.reflect.InterTypeFieldDeclaration;

/**
 * @author colyer
 *
 */
public class InterTypeFieldDeclarationImpl extends InterTypeDeclarationImpl
    implements InterTypeFieldDeclaration {

    private String name;
    private AjType<?> type;
    private Type genericType;

    /**
     * @param decType
     * @param target
     * @param mods
     */
    public InterTypeFieldDeclarationImpl(AjType<?> decType, String target,
        int mods, String name, AjType<?> type, Type genericType) {
        super(decType, target, mods);
    }

```

```

this.name = name;
this.type = type;
this.genericType = genericType;
}

public InterTypeFieldDeclarationImpl(AjType<?> decType, AjType<?> targetType, Field base) {
    super(decType, targetType, base.getModifiers());
    this.name = base.getName();
    this.type = AjTypeSystem.getAjType(base.getType());
    Type gt = base.getGenericType();
    if (gt instanceof Class) {
        this.genericType = AjTypeSystem.getAjType((Class<?>)gt);
    } else {
        this.genericType = gt;
    }
}

/* (non-Javadoc)
 * @see org.aspectj.lang.reflect.InterTypeFieldDeclaration#getName()
 */
public String getName() {
    return this.name;
}

/* (non-Javadoc)
 * @see org.aspectj.lang.reflect.InterTypeFieldDeclaration#getType()
 */
public AjType<?> getType() {
    return this.type;
}

/* (non-Javadoc)
 * @see org.aspectj.lang.reflect.InterTypeFieldDeclaration#getGenericType()
 */
public Type getGenericType() {
    return this.genericType;
}

public String toString() {
    StringBuffer sb = new StringBuffer();
    sb.append(java.lang.reflect.Modifier.toString(getModifiers()));
    sb.append(" ");
    sb.append(getType().toString());
    sb.append(" ");
    sb.append(this.targetTypeName);
    sb.append(".");
    sb.append(getName());
    return sb.toString();
}

```

```

}

}
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* *****/
package org.aspectj.internal.lang.reflect;

import java.lang.reflect.Method;
import java.lang.reflect.Type;
import java.lang.reflect.TypeVariable;

import org.aspectj.lang.reflect.AjType;
import org.aspectj.lang.reflect.AjTypeSystem;
import org.aspectj.lang.reflect.InterTypeMethodDeclaration;

/**
 * @author colyer
 *
 */
public class InterTypeMethodDeclarationImpl extends InterTypeDeclarationImpl
    implements InterTypeMethodDeclaration {

    private String name;
    private Method baseMethod;
    private int parameterAdjustmentFactor = 1; // no of fake params at start of baseMethod
    private AjType<?>[] parameterTypes;
    private Type[] genericParameterTypes;
    private AjType<?> returnType;
    private Type genericReturnType;
    private AjType<?>[] exceptionTypes;

    /**
     * @param decType
     * @param target
     * @param mods
     */
    public InterTypeMethodDeclarationImpl(AjType<?> decType, String target,
        int mods, String name, Method itdInterMethod) {
        super(decType, target, mods);

```

```

this.name = name;
this.baseMethod = itdInterMethod;
}

public InterTypeMethodDeclarationImpl(AjType<?> decType, AjType<?> targetType, Method base, int modifiers)
{
    super(decType,targetType,modifiers);
    this.parameterAdjustmentFactor = 0;
    this.name = base.getName();
    this.baseMethod = base;
}

/* (non-Javadoc)
 * @see org.aspectj.lang.reflect.InterTypeMethodDeclaration#getName()
 */
public String getName() {
    return this.name;
}

/* (non-Javadoc)
 * @see org.aspectj.lang.reflect.InterTypeMethodDeclaration#getReturnType()
 */
public AjType<?> getReturnType() {
    return AjTypeSystem.getAjType(baseMethod.getReturnType());
}

/* (non-Javadoc)
 * @see org.aspectj.lang.reflect.InterTypeMethodDeclaration#getGenericReturnType()
 */
public Type getGenericReturnType() {
    Type gRet = baseMethod.getGenericReturnType();
    if (gRet instanceof Class) {
        return AjTypeSystem.getAjType((Class<?>)gRet);
    }
    return gRet;
}

/* (non-Javadoc)
 * @see org.aspectj.lang.reflect.InterTypeMethodDeclaration#getParameters()
 */
public AjType<?>[] getParameterTypes() {
    Class<?>[] baseTypes = baseMethod.getParameterTypes();
    AjType<?>[] ret = new AjType<?>[baseTypes.length -parameterAdjustmentFactor];
    for (int i = parameterAdjustmentFactor; i < baseTypes.length; i++) {
        ret[i-parameterAdjustmentFactor] = AjTypeSystem.getAjType(baseTypes[i]);
    }
    return ret;
}

```



```

/* (non-Javadoc)
 * @see org.aspectj.lang.reflect.InterTypeMethodDeclaration#getGenericParameters()
 */
public Type[] getGenericParameterTypes() {
    Type[] baseTypes = baseMethod.getGenericParameterTypes();
    Type[] ret = new AjType<?>[baseTypes.length-parameterAdjustmentFactor];
    for (int i = parameterAdjustmentFactor; i < baseTypes.length; i++) {
        if (baseTypes[i] instanceof Class) {
            ret[i-parameterAdjustmentFactor] = AjTypeSystem.getAjType((Class<?>)baseTypes[i]);
        } else {
            ret[i-parameterAdjustmentFactor] = baseTypes[i];
        }
    }
    return ret;
}

```

```

/* (non-Javadoc)
 * @see org.aspectj.lang.reflect.InterTypeMethodDeclaration#getTypeParameters()
 */
public TypeVariable<Method>[] getTypeParameters() {
    return baseMethod.getTypeParameters();
}

```

```

public AjType<?>[] getExceptionTypes() {
    Class<?>[] baseTypes = baseMethod.getExceptionTypes();
    AjType<?>[] ret = new AjType<?>[baseTypes.length];
    for (int i = 0; i < baseTypes.length; i++) {
        ret[i] = AjTypeSystem.getAjType(baseTypes[i]);
    }
    return ret;
}

```

```

public String toString() {
    StringBuffer sb = new StringBuffer();
    sb.append(java.lang.reflect.Modifier.toString(getModifiers()));
    sb.append(" ");
    sb.append(getReturnType().toString());
    sb.append(" ");
    sb.append(this.targetTypeName);
    sb.append(".");
    sb.append(getName());
    sb.append("(");
    AjType<?>[] pTypes = getParameterTypes();
    for(int i = 0; i < (pTypes.length - 1); i++) {
        sb.append(pTypes[i].toString());
        sb.append(", ");
    }
}

```

```

    if (pTypes.length > 0) {
        sb.append(pTypes[pTypes.length - 1].toString());
    }
    sb.append(")");
    return sb.toString();
}

}

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 * *****/
package org.aspectj.internal.lang.reflect;

import org.aspectj.lang.reflect.PerClause;
import org.aspectj.lang.reflect.PerClauseKind;

/**
 * @author colyer
 *
 */
public class PerClauseImpl implements PerClause {

    private final PerClauseKind kind;

    protected PerClauseImpl(PerClauseKind kind) {
        this.kind = kind;
    }

    /** (non-Javadoc)
     * @see org.aspectj.lang.reflect.PerClause#getKind()
     */
    public PerClauseKind getKind() {
        return kind;
    }

    public String toString() {
        return "issingleton()";
    }
}

```

```

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* *****/
package org.aspectj.internal.lang.reflect;

import org.aspectj.lang.reflect.PerClauseKind;
import org.aspectj.lang.reflect.PointcutBasedPerClause;
import org.aspectj.lang.reflect.PointcutExpression;

/**
 * @author colyer
 */
public class PointcutBasedPerClauseImpl extends PerClauseImpl implements
    PointcutBasedPerClause {

    private final PointcutExpression pointcutExpression;

    public PointcutBasedPerClauseImpl(PerClauseKind kind,
        String pointcutExpression) {
        super(kind);
        this.pointcutExpression = new PointcutExpressionImpl(pointcutExpression);
    }

    public PointcutExpression getPointcutExpression() {
        return pointcutExpression;
    }

    public String toString() {
        StringBuffer sb = new StringBuffer();
        switch(getKind()) {
            case PERCFLOW: sb.append("percfLOW("); break;
            case PERCFLOWBELOW: sb.append("percfLOWbelow("); break;
            case PERTARGET: sb.append("pertarget("); break;
            case PERTHIS: sb.append("perthis("); break;
        }
        sb.append(this.pointcutExpression.asString());
        sb.append(")");
        return sb.toString();
    }
}

```

```

}
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* *****/
package org.aspectj.internal.lang.reflect;

import org.aspectj.lang.reflect.PointcutExpression;

/**
 * @author colyer
 */
public class PointcutExpressionImpl implements PointcutExpression {
    private String expression;

    public PointcutExpressionImpl(String aPointcutExpression) {
        this.expression = aPointcutExpression;
    }

    public String asString() {
        return expression;
    }

    public String toString() { return asString(); }
}
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* *****/
package org.aspectj.internal.lang.reflect;

import java.lang.reflect.Method;
import java.util.StringTokenizer;

```

```

import org.aspectj.lang.reflect.AjType;
import org.aspectj.lang.reflect.AjTypeSystem;
import org.aspectj.lang.reflect.Pointcut;
import org.aspectj.lang.reflect.PointcutExpression;

/**
 * @author colyer
 *
 */
public class PointcutImpl implements Pointcut {

    private final String name;
    private final PointcutExpression pc;
    private final Method baseMethod;
    private final AjType declaringType;
    private String[] parameterNames = new String[0];

    protected PointcutImpl(String name, String pc, Method method, AjType declaringType, String pNames) {
        this.name = name;
        this.pc = new PointcutExpressionImpl(pc);
        this.baseMethod = method;
        this.declaringType = declaringType;
        this.parameterNames = splitOnComma(pNames);
    }

    /* (non-Javadoc)
     * @see org.aspectj.lang.reflect.Pointcut#getPointcutExpression()
     */
    public PointcutExpression getPointcutExpression() {
        return pc;
    }

    public String getName() {
        return name;
    }

    public int getModifiers() {
        return baseMethod.getModifiers();
    }

    public AjType<?>[] getParameterTypes() {
        Class<?>[] baseParamTypes = baseMethod.getParameterTypes();
        AjType<?>[] ajParamTypes = new AjType<?>[baseParamTypes.length];
        for (int i = 0; i < ajParamTypes.length; i++) {
            ajParamTypes[i] = AjTypeSystem.getAjType(baseParamTypes[i]);
        }
        return ajParamTypes;
    }
}

```

```

}

public AjType getDeclaringType() {
    return declaringType;
}

public String[] getParameterNames() {
    return parameterNames;
}

private String[] splitOnComma(String s) {
    StringTokenizer strTok = new StringTokenizer(s,",");
    String[] ret = new String[strTok.countTokens()];
    for (int i = 0; i < ret.length; i++) {
        ret[i] = strTok.nextToken().trim();
    }
    return ret;
}

public String toString() {
    StringBuffer sb = new StringBuffer();
    sb.append(getName());
    sb.append("(");
    AjType<?>[] ptypes = getParameterTypes();
    for (int i = 0; i < ptypes.length; i++) {
        sb.append(ptypes[i].getName());
        if (this.parameterNames != null && this.parameterNames[i] != null) {
            sb.append(" ");
            sb.append(this.parameterNames[i]);
        }
        if (i+1 < ptypes.length) sb.append(",");
    }
    sb.append(") : ");
    sb.append(getPointcutExpression().asString());
    return sb.toString();
}
}
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* Contributors:
* Adrian Colyer Initial implementation
* *****/

```

```

package org.aspectj.internal.lang.reflect;

import org.aspectj.lang.reflect.SignaturePattern;

/**
 * Basic implementation of signature pattern
 *
 */
public class SignaturePatternImpl implements SignaturePattern {

    private String sigPattern;

    public SignaturePatternImpl(String pattern) {
        this.sigPattern = pattern;
    }

    /** (non-Javadoc)
     * @see org.aspectj.lang.reflect.SignaturePattern#asString()
     */
    public String asString() {
        return sigPattern;
    }

    public String toString() { return asString(); }

}
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 * Contributors:
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 * *****/
package org.aspectj.internal.lang.reflect;

import org.aspectj.lang.reflect.PerClauseKind;
import org.aspectj.lang.reflect.TypePattern;
import org.aspectj.lang.reflect.TypePatternBasedPerClause;

/**
 * @author colyer
 *
 */
public class TypePatternBasedPerClauseImpl extends PerClauseImpl implements

```

```

TypePatternBasedPerClause {

private TypePattern typePattern;

public TypePatternBasedPerClauseImpl(PerClauseKind kind, String pattern) {
    super(kind);
    this.typePattern = new TypePatternImpl(pattern);
}

/* (non-Javadoc)
 * @see org.aspectj.lang.reflect.TypePatternBasedPerClause#getTypePattern()
 */
public TypePattern getTypePattern() {
    return this.typePattern;
}

public String toString() {
    return "pertypewithin(" + typePattern.asString() + ")";
}

}

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 * *****/
package org.aspectj.internal.lang.reflect;

import org.aspectj.lang.reflect.TypePattern;

/**
 * Default impl of a type pattern.
 */
public class TypePatternImpl implements TypePattern {

private String typePattern;

public TypePatternImpl(String pattern) {
    this.typePattern = pattern;
}

```



```

/* (non-Javadoc)
 * @see org.aspectj.lang.reflect.TypePattern#asString()
 */
public String asString() {
    return this.typePattern;
}

public String toString() { return asString(); }

}
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 *   Andy Clement   initial implementation
 *   Copied from bits of original CFlowStack
 * *****/
package org.aspectj.runtime.internal.cflowstack;

import java.util.Iterator;
import java.util.List;
import java.util.ArrayList;
import java.util.Enumeration;
import java.util.Hashtable;

public class ThreadCounterImpl11 implements ThreadCounter {
    private Hashtable counters = new Hashtable();
    private Thread cached_thread;
    private Counter cached_counter;

    private int change_count = 0;
    private static final int COLLECT_AT = 20000;
    private static final int MIN_COLLECT_AT = 100;

    static class Counter {
        protected int value = 0;
    }

    private synchronized Counter getThreadCounter() {
        if (Thread.currentThread() != cached_thread) {
            cached_thread = Thread.currentThread();
            cached_counter = (Counter)counters.get(cached_thread);

```

```

if (cached_counter == null) {
    cached_counter = new Counter();
    counters.put(cached_thread, cached_counter);
}
change_count++;
// Collect more often if there are many threads, but not *too* often
int size = Math.max(1, counters.size()); // should be >1 b/c always live threads, but...
if (change_count > Math.max(MIN_COLLECT_AT, COLLECT_AT/size)) {
    List dead_stacks = new ArrayList();
    for (Enumeration e = counters.keys(); e.hasMoreElements(); ) {
        Thread t = (Thread)e.nextElement();
        if (!t.isAlive()) dead_stacks.add(t);
    }
    for (Iterator e = dead_stacks.iterator(); e.hasNext(); ) {
        Thread t = (Thread)e.next();
        counters.remove(t);
    }
    change_count = 0;
}
}
return cached_counter;
}

public void inc() {
    getThreadCounter().value++;
}

public void dec() {
    getThreadCounter().value--;
}

public boolean isNotZero() {
    return getThreadCounter().value!=0;
}

public void removeThreadCounter() {
    // TODO
}

}

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```

```

*
* Contributors:
*   Andy Clement   initial implementation
*   *****/
package org.aspectj.runtime.internal.cflowstack;

import java.util.Stack;

public class ThreadStackFactoryImpl implements ThreadStackFactory {

    private static class ThreadStackImpl extends ThreadLocal implements ThreadStack {
        public Object initialValue() {
            return new Stack();
        }
        public Stack getThreadStack() {
            return (Stack)get();
        }
        public void removeThreadStack() {
            this.remove();
        }
    }

    public ThreadStack getNewThreadStack() {
        return new ThreadStackImpl();
    }

    private static class ThreadCounterImpl extends ThreadLocal implements ThreadCounter {

        public Object initialValue() {
            return new Counter();
        }
        public Counter getThreadCounter() {
            return (Counter)get();
        }

        public void removeThreadCounter() {
            this.remove();
        }

        public void inc() { getThreadCounter().value++; }
        public void dec() { getThreadCounter().value--; }
        public boolean isNotZero() { return getThreadCounter().value!= 0; }

        static class Counter {
            protected int value = 0;
        }
    }
}

```

```

public ThreadCounter getNewThreadCounter() {
    return new ThreadCounterImpl();
}

}

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* Contributors:
*   Andy Clement   initial implementation
* *****/
package org.aspectj.runtime.internal.cflowstack;

public class ThreadStackFactoryImpl11 implements ThreadStackFactory {

    public ThreadStack getNewThreadStack() {
        return new ThreadStackImpl11();
    }

    public ThreadCounter getNewThreadCounter() {
        return new ThreadCounterImpl11();
    }

}

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* Contributors:
*   Andy Clement   initial implementation
*   Copied from bits of original CFlowStack
* *****/
package org.aspectj.runtime.internal.cflowstack;

import java.util.Enumeration;
import java.util.Hashtable;

```

```

import java.util.Stack;

public class ThreadStackImpl11 implements ThreadStack {
    private Hashtable stacks = new Hashtable();
    private Thread cached_thread;
    private Stack cached_stack;
    private int change_count = 0;
    private static final int COLLECT_AT = 20000;
    private static final int MIN_COLLECT_AT = 100;

    public synchronized Stack getThreadStack() {
        if (Thread.currentThread() != cached_thread) {
            cached_thread = Thread.currentThread();
            cached_stack = (Stack)stacks.get(cached_thread);
            if (cached_stack == null) {
                cached_stack = new Stack();
                stacks.put(cached_thread, cached_stack);
            }
            change_count++;
            // Collect more often if there are many threads, but not *too* often
            int size = Math.max(1, stacks.size()); // should be >1 b/c always live threads, but...
            if (change_count > Math.max(MIN_COLLECT_AT, COLLECT_AT/size)) {
                Stack dead_stacks = new Stack();
                for (Enumeration e = stacks.keys(); e.hasMoreElements(); ) {
                    Thread t = (Thread)e.nextElement();
                    if (!t.isAlive()) dead_stacks.push(t);
                }
                for (Enumeration e = dead_stacks.elements(); e.hasMoreElements(); ) {
                    Thread t = (Thread)e.nextElement();
                    stacks.remove(t);
                }
                change_count = 0;
            }
        }
        return cached_stack;
    }

    public void removeThreadStack() {
        // TODO
    }

}

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```

```

package org.aspectj.runtime.reflect;

import java.lang.reflect.Method;
import java.util.StringTokenizer;

import org.aspectj.lang.reflect.AdviceSignature;

class AdviceSignatureImpl extends CodeSignatureImpl implements AdviceSignature {
    Class returnType;
    private Method adviceMethod = null;

    AdviceSignatureImpl(int modifiers, String name, Class declaringType,
        Class[] parameterTypes, String[] parameterNames, Class[] exceptionTypes,
        Class returnType)
    {
        super(modifiers, name, declaringType, parameterTypes, parameterNames,
            exceptionTypes);
        this.returnType = returnType;
    }

    AdviceSignatureImpl(String stringRep) {
        super(stringRep);
    }

    /* name is consistent with reflection API
    before and after always return Void.TYPE
    (some around also return Void.Type)    */
    public Class getReturnType() {
        if (returnType == null) returnType = extractType(6);
        return returnType;
    }

    protected String createToString(StringMaker sm) {
        StringBuffer buf = new StringBuffer();
        // buf.append(sm.makeModifiersString(getModifiers()));
        if (sm.includeArgs) buf.append(sm.makeTypeName(getReturnType()));
        if (sm.includeArgs) buf.append(" ");
        buf.append(sm.makePrimaryTypeName(getDeclaringType(),getDeclaringTypeName()));
        buf.append(".");
        buf.append(toAdviceName(getName()));
        sm.addSignature(buf, getParameterTypes());
    }
}

```

```

        sm.addThrows(buf, getExceptionTypes());
        return buf.toString();
    }

    private String toAdviceName(String methodName) {
        if (methodName.indexOf('$') == -1) return methodName;
        StringTokenizer strTok = new StringTokenizer(methodName, "$");
        while (strTok.hasMoreTokens()) {
            String token = strTok.nextToken();
            if ( token.startsWith("before") ||
                token.startsWith("after") ||
                token.startsWith("around") ) return token;
        }
        return methodName;
    }

    /* (non-Javadoc)
     * @see org.aspectj.runtime.reflect.MemberSignatureImpl#createAccessibleObject()
     */
    public Method getAdvice() {
        if (adviceMethod == null) {
            try {
                adviceMethod = getDeclaringType().getDeclaredMethod(getName(), getParameterTypes());
            } catch (Exception ex) {
                ; // nothing we can do, caller will see null
            }
        }
        return adviceMethod;
    }
}

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package org.aspectj.runtime.reflect;

import org.aspectj.lang.reflect.CatchClauseSignature;

```

```

class CatchClauseSignatureImpl extends SignatureImpl implements CatchClauseSignature {
    Class parameterType;
    String parameterName;

    CatchClauseSignatureImpl(Class declaringType,
        Class parameterType, String parameterName)
    {
        super(0, "catch", declaringType);
        this.parameterType = parameterType;
        this.parameterName = parameterName;
    }

    CatchClauseSignatureImpl(String stringRep) {
        super(stringRep);
    }

    public Class getParameterType() {
        if (parameterType == null) parameterType = extractType(3);
        return parameterType;
    }
    public String getParameterName() {
        if (parameterName == null) parameterName = extractString(4);
        return parameterName;
    }

    protected String createToString(StringMaker sm) {
        return "catch(" + sm.makeTypeName(getParameterType()) + ")";
    }
}
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package org.aspectj.runtime.reflect;

import org.aspectj.lang.reflect.CodeSignature;

abstract class CodeSignatureImpl extends MemberSignatureImpl implements CodeSignature {

```



```

Class[] parameterTypes;
String[] parameterNames;
Class[] exceptionTypes;

CodeSignatureImpl(int modifiers, String name, Class declaringType,
    Class[] parameterTypes, String[] parameterNames, Class[] exceptionTypes)
{
    super(modifiers, name, declaringType);
    this.parameterTypes = parameterTypes;
    this.parameterNames = parameterNames;
    this.exceptionTypes = exceptionTypes;
}
CodeSignatureImpl(String stringRep) {
    super(stringRep);
}

public Class[] getParameterTypes() {
    if (parameterTypes == null) parameterTypes = extractTypes(3);
    return parameterTypes;
}
public String[] getParameterNames() {
    if (parameterNames == null) parameterNames = extractStrings(4);
    return parameterNames;
}
public Class[] getExceptionTypes() {
    if (exceptionTypes == null) exceptionTypes = extractTypes(5);
    return exceptionTypes;
}
}
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package org.aspectj.runtime.reflect;

import java.lang.reflect.Constructor;

import org.aspectj.lang.reflect.ConstructorSignature;

```

```

class ConstructorSignatureImpl extends CodeSignatureImpl implements ConstructorSignature {
    private Constructor constructor;

    ConstructorSignatureImpl(int modifiers, Class declaringType,
        Class[] parameterTypes, String[] parameterNames, Class[] exceptionTypes)
    {
        super(modifiers, "<init>", declaringType, parameterTypes, parameterNames, exceptionTypes);
    }

    ConstructorSignatureImpl(String stringRep) {
        super(stringRep);
    }

    public String getName() { return "<init>"; }

    protected String createToString(StringMaker sm) {
        StringBuffer buf = new StringBuffer();
        buf.append(sm.makeModifiersString(getModifiers()));
        buf.append(sm.makePrimaryTypeName(getDeclaringType(),getDeclaringTypeName()));
        sm.addSignature(buf, getParameterTypes());
        sm.addThrows(buf, getExceptionTypes());
        return buf.toString();
    }

    /* (non-Javadoc)
    * @see org.aspectj.runtime.reflect.MemberSignatureImpl#createAccessibleObject()
    */
    public Constructor getConstructor() {
        if (constructor == null) {
            try {
                constructor = getDeclaringType().getDeclaredConstructor(getParameterTypes());
            } catch (Exception ex) {
                ; // nothing we can do, caller will see null
            }
        }
        return constructor;
    }
}

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```

```

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package org.aspectj.runtime.reflect;

import java.lang.reflect.Field;

import org.aspectj.lang.reflect.FieldSignature;

public class FieldSignatureImpl extends MemberSignatureImpl implements FieldSignature {
    Class fieldType;
    private Field field;

    FieldSignatureImpl(int modifiers, String name, Class declaringType,
        Class fieldType)
    {
        super(modifiers, name, declaringType);
        this.fieldType = fieldType;
    }

    FieldSignatureImpl(String stringRep) {
        super(stringRep);
    }

    public Class getFieldType() {
        if (fieldType == null) fieldType = extractType(3);
        return fieldType;
    }

    protected String createToString(StringMaker sm) {
        StringBuffer buf = new StringBuffer();
        buf.append(sm.makeModifiersString(getModifiers()));
        if (sm.includeArgs) buf.append(sm.makeTypeName(getFieldType()));
        if (sm.includeArgs) buf.append(" ");
        buf.append(sm.makePrimaryTypeName(getDeclaringType(),getDeclaringTypeName()));
        buf.append(".");
        buf.append(getName());
        return buf.toString();
    }

    /* (non-Javadoc)
    * @see org.aspectj.runtime.reflect.MemberSignatureImpl#createAccessibleObject()
    */
    public Field getField() {
        if (field == null) {
            try {

```

```

        field = getDeclaringType().getDeclaredField(getName());
    } catch (Exception ex) {
        ; // nothing we can do, caller will see null
    }
}
return field;
}
}
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package org.aspectj.runtime.reflect;

import org.aspectj.lang.reflect.InitializerSignature;

import java.lang.reflect.Constructor;
import java.lang.reflect.Modifier;

class InitializerSignatureImpl extends CodeSignatureImpl implements InitializerSignature {
    private Constructor constructor;

    InitializerSignatureImpl(int modifiers, Class declaringType) {
        super(modifiers, Modifier.isStatic(modifiers) ? "<clinit>" : "<init>", declaringType,
EMPTY_CLASS_ARRAY,
        EMPTY_STRING_ARRAY, EMPTY_CLASS_ARRAY);
    }

    InitializerSignatureImpl(String stringRep) {
        super(stringRep);
    }

    public String getName() {
        return Modifier.isStatic(getModifiers()) ? "<clinit>": "<init>";
    }

    protected String createToString(StringMaker sm) {
        StringBuffer buf = new StringBuffer();

```

```

        buf.append(sm.makeModifiersString(getModifiers()));
        buf.append(sm.makePrimaryTypeName(getDeclaringType(),getDeclaringTypeName()));
        buf.append(".");
        buf.append(getName());
        return buf.toString();
    }

    /* (non-Javadoc)
     * @see org.aspectj.runtime.reflect.MemberSignatureImpl#createAccessibleObject()
     */
    public Constructor getInitializer() {
        if (constructor == null) {
            try {
                constructor = getDeclaringType().getDeclaredConstructor(getParameterTypes());
            } catch (Exception ex) {
                ; // nothing we can do, caller will see null
            }
        }
        return constructor;
    }
}

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package org.aspectj.runtime.reflect;

import org.aspectj.lang.JoinPoint;
import org.aspectj.lang.ProceedingJoinPoint;
import org.aspectj.lang.Signature;
import org.aspectj.lang.reflect.SourceLocation;
import org.aspectj.runtime.internal.AroundClosure;

class JoinPointImpl implements ProceedingJoinPoint {
    static class StaticPartImpl implements JoinPoint.StaticPart {
        String kind;
        Signature signature;
        SourceLocation sourceLocation;
        private int id;
    }
}

```

```

public StaticPartImpl(int id, String kind, Signature signature, SourceLocation sourceLocation) {
    this.kind = kind;
    this.signature = signature;
    this.sourceLocation = sourceLocation;
    this.id = id;
}

public int getId() {
    return id;
}

public String getKind() {
    return kind;
}

public Signature getSignature() {
    return signature;
}

public SourceLocation getSourceLocation() {
    return sourceLocation;
}

String toString(StringMaker sm) {
    StringBuffer buf = new StringBuffer();
    buf.append(sm.makeKindName(getKind()));
    buf.append("(");
    buf.append(((SignatureImpl) getSignature()).toString(sm));
    buf.append(")");
    return buf.toString();
}

public final String toString() {
    return toString(StringMaker.middleStringMaker);
}

public final String toShortString() {
    return toString(StringMaker.shortStringMaker);
}

public final String toLongString() {
    return toString(StringMaker.longStringMaker);
}
}

static class EnclosingStaticPartImpl extends StaticPartImpl implements EnclosingStaticPart {
    public EnclosingStaticPartImpl(int count, String kind, Signature signature, SourceLocation sourceLocation) {

```

```

    super(count, kind, signature, sourceLocation);
}
}

Object _this;
Object target;
Object[] args;
org.aspectj.lang.JoinPoint.StaticPart staticPart;

public JoinPointImpl(org.aspectj.lang.JoinPoint.StaticPart staticPart, Object _this, Object target, Object[] args) {
    this.staticPart = staticPart;
    this._this = _this;
    this.target = target;
    this.args = args;
}

public Object getThis() {
    return _this;
}

public Object getTarget() {
    return target;
}

public Object[] getArgs() {
    if (args == null) {
        args = new Object[0];
    }
    Object[] argsCopy = new Object[args.length];
    System.arraycopy(args, 0, argsCopy, 0, args.length);
    return argsCopy;
}

public org.aspectj.lang.JoinPoint.StaticPart getStaticPart() {
    return staticPart;
}

public String getKind() {
    return staticPart.getKind();
}

public Signature getSignature() {
    return staticPart.getSignature();
}

public SourceLocation getSourceLocation() {
    return staticPart.getSourceLocation();
}
}

```

```

public final String toString() {
    return staticPart.toString();
}

public final String toShortString() {
    return staticPart.toShortString();
}

public final String toLongString() {
    return staticPart.toLongString();
}

// To proceed we need a closure to proceed on
private AroundClosure arc;

public void set$AroundClosure(AroundClosure arc) {
    this.arc = arc;
}

public Object proceed() throws Throwable {
    // when called from a before advice, but be a no-op
    if (arc == null)
        return null;
    else
        return arc.run(arc.getState());
}

public Object proceed(Object[] adviceBindings) throws Throwable {
    // when called from a before advice, but be a no-op
    if (arc == null)
        return null;
    else {

        // Based on the bit flags in the AroundClosure we can determine what to
        // expect in the adviceBindings array. We may or may not be expecting
        // the first value to be a new this or a new target... (see pr126167)
        int flags = arc.getFlags();
        boolean unset = (flags & 0x100000) != 0;
        boolean thisTargetTheSame = (flags & 0x010000) != 0;
        boolean hasThis = (flags & 0x001000) != 0;
        boolean bindsThis = (flags & 0x000100) != 0;
        boolean hasTarget = (flags & 0x000010) != 0;
        boolean bindsTarget = (flags & 0x000001) != 0;

        // state is always consistent with caller?, callee?, formals..., jp
        Object[] state = arc.getState();

```



```

// these next two numbers can differ because some join points have a this and
// target that are the same (eg. call) - and yet you can bind this and target
// separately.

// In the state array, [0] may be this, [1] may be target

int firstArgumentIndexIntoAdviceBindings = 0;
int firstArgumentIndexIntoState = 0;
firstArgumentIndexIntoState += (hasThis ? 1 : 0);
firstArgumentIndexIntoState += (hasTarget && !thisTargetTheSame ? 1 : 0);
if (hasThis) {
    if (bindsThis) {
        // replace [0] (this)
        firstArgumentIndexIntoAdviceBindings = 1;
        state[0] = adviceBindings[0];
    } else {
        // leave state[0] alone, its OK
    }
}
if (hasTarget) {
    if (bindsTarget) {
        if (thisTargetTheSame) {
            // this and target are the same so replace state[0]
            firstArgumentIndexIntoAdviceBindings = 1 + (bindsThis ? 1 : 0);
            state[0] = adviceBindings[(bindsThis ? 1 : 0)];
        } else {
            // need to replace the target, and it is different to this, whether
            // that means replacing state[0] or state[1] depends on whether
            // the join point has a this
            firstArgumentIndexIntoAdviceBindings = (hasThis ? 1 : 0) + 1;
            state[hasThis ? 1 : 0] = adviceBindings[hasThis ? 1 : 0];
        }
    } else {
        // leave state[0]/state[1] alone, they are OK
    }
}

// copy the rest across
for (int i = firstArgumentIndexIntoAdviceBindings; i < adviceBindings.length; i++) {
    state[firstArgumentIndexIntoState + (i - firstArgumentIndexIntoAdviceBindings)] = adviceBindings[i];
}

// old code that did this, didnt allow this/target overriding
// for (int i = state.length-2; i >= 0; i--) {
//     int formalIndex = (adviceBindings.length - 1) - (state.length-2) + i;
//     if (formalIndex >= 0 && formalIndex < adviceBindings.length) {
//         state[i] = adviceBindings[formalIndex];
//     }
}

```

```

    // }
    return arc.run(state);
}
}

}
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* Contributors:
*   Andy Clement - initial implementation
*****/

package org.aspectj.runtime.reflect;

import java.lang.reflect.Modifier;

import org.aspectj.lang.reflect.LockSignature;

class LockSignatureImpl extends SignatureImpl implements LockSignature {
    private Class parameterType;

    LockSignatureImpl(Class c) {
        super(Modifier.STATIC, "lock", c);
        parameterType = c;
    }

    LockSignatureImpl(String stringRep) {
        super(stringRep);
    }

    protected String createToString(StringMaker sm) {
        if (parameterType == null) parameterType = extractType(3);
        return "lock("+sm.makeTypeName(parameterType)+)";
    }

    public Class getParameterType() {
        if (parameterType == null) parameterType = extractType(3);
        return parameterType;
    }
}

```

```

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```

```
package org.aspectj.runtime.reflect;
```

```
import org.aspectj.lang.reflect.MemberSignature;
```

```
abstract class MemberSignatureImpl extends SignatureImpl implements MemberSignature {
```

```
    MemberSignatureImpl(int modifiers, String name, Class declaringType) {
        super(modifiers, name, declaringType);
    }

```

```
    public MemberSignatureImpl(String stringRep) {
        super(stringRep);
    }

```

```

}
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```

```
package org.aspectj.runtime.reflect;
```

```
import java.lang.reflect.Method;
import java.util.HashSet;
import java.util.Set;
```

```

import org.aspectj.lang.reflect.MethodSignature;

class MethodSignatureImpl extends CodeSignatureImpl implements MethodSignature {
    private Method method;
    Class returnType;

    MethodSignatureImpl(int modifiers, String name, Class declaringType, Class[] parameterTypes, String[]
parameterNames,
        Class[] exceptionTypes, Class returnType) {
        super(modifiers, name, declaringType, parameterTypes, parameterNames, exceptionTypes);
        this.returnType = returnType;
    }

    MethodSignatureImpl(String stringRep) {
        super(stringRep);
    }

    /* name is consistent with reflection API */
    public Class getReturnType() {
        if (returnType == null)
            returnType = extractType(6);
        return returnType;
    }

    protected String createToString(StringMaker sm) {
        StringBuffer buf = new StringBuffer();
        buf.append(sm.makeModifiersString(getModifiers()));
        if (sm.includeArgs)
            buf.append(sm.makeTypeName(getReturnType()));
        if (sm.includeArgs)
            buf.append(" ");
        buf.append(sm.makePrimaryTypeName(getDeclaringType(), getDeclaringTypeName()));
        buf.append(".");
        buf.append(getName());
        sm.addSignature(buf, getParameterTypes());
        sm.addThrows(buf, getExceptionTypes());
        return buf.toString();
    }

    /*
     * (non-Javadoc)
     *
     * @see org.aspectj.lang.reflect.MemberSignature#getAccessibleObject()
     */
    public Method getMethod() {
        if (method == null) {
            Class dtype = getDeclaringType();
            try {

```

```

    method = dtype.getDeclaredMethod(getName(), getParameterTypes());
  } catch (NoSuchMethodException nsmEx) {
    // pr154427 - search
    Set searched = new HashSet();
    searched.add(dtype); // avoids another getDeclaredMethod() on dtype
    method = search(dtype, getName(), getParameterTypes(), searched);
  }
}
return method;
}

/**
 * Hunt for a method up the hierarchy for a specified type.
 *
 * @param type the type on which to look for the method
 * @param name the name of the method
 * @param params the parameters of the method
 * @param searched a set of types already searched to avoid looking at anything twice
 * @return the method if found, or null if not found
 */
private Method search(Class type, String name, Class[] params, Set searched) {
  if (type == null) {
    return null;
  }
  if (!searched.contains(type)) {
    searched.add(type);
    try {
      return type.getDeclaredMethod(name, params);
    } catch (NoSuchMethodException nsme) {
      // drop through and check superclass and interfaces
    }
  }
  Method m = search(type.getSuperclass(), name, params, searched);
  if (m != null) {
    return m;
  }
  Class[] superinterfaces = type.getInterfaces();
  if (superinterfaces != null) {
    for (int i = 0; i < superinterfaces.length; i++) {
      m = search(superinterfaces[i], name, params, searched);
      if (m != null) {
        return m;
      }
    }
  }
  return null;
}
}

```

```

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* *****/

```

```

package org.aspectj.runtime.reflect;

import org.aspectj.lang.Signature;

import java.util.StringTokenizer;

abstract class SignatureImpl implements Signature {

    private static boolean useCache = true;

    int modifiers = -1;
    String name;
    String declaringTypeName;
    Class declaringType;
    Cache stringCache;

    SignatureImpl(int modifiers, String name, Class declaringType) {
        this.modifiers = modifiers;
        this.name = name;
        this.declaringType = declaringType;
    }

    protected abstract String createToString (StringMaker sm);

    /* Use a soft cache for the short, middle and long String representations */
    String toString (StringMaker sm) {
        String result = null;
        if (useCache) {
            if (stringCache == null) {
                try {
                    stringCache = new CacheImpl();
                } catch (Throwable t) {
                    useCache = false;
                }
            }
        }
    }

```

```

    } else {
        result = stringCache.get(sm.cacheOffset);
    }
}
if (result == null) {
    result = createToString(sm);
}
if (useCache) {
    stringCache.set(sm.cacheOffset, result);
}
return result;
}

public final String toString() { return toString(StringMaker.middleStringMaker); }
public final String toShortString() { return toString(StringMaker.shortStringMaker); }
public final String toLongString() { return toString(StringMaker.longStringMaker); }

public int getModifiers() {
    if (modifiers == -1) modifiers = extractInt(0);
    return modifiers;
}
public String getName() {
    if (name == null) name = extractString(1);
    return name;
}
public Class getDeclaringType() {
    if (declaringType == null) declaringType = extractType(2);
    return declaringType;
}
public String getDeclaringTypeName() {
    if (declaringTypeName == null) {
        declaringTypeName = getDeclaringType().getName();
    }
    return declaringTypeName;
}

String fullTypeName(Class type) {
    if (type == null) return "ANONYMOUS";
    if (type.isArray()) return fullTypeName(type.getComponentType()) + "[]";
    return type.getName().replace('$', '.');
}

String stripPackageName(String name) {
    int dot = name.lastIndexOf('.');
    if (dot == -1) return name;
    return name.substring(dot+1);
}

```

```

String shortTypeName(Class type) {
    if (type == null) return "ANONYMOUS";
    if (type.isArray()) return shortTypeName(type.getComponentType()) + "[]";
    return stripPackageName(type.getName()).replace('$', '.');
}

void addFullTypeNames(StringBuffer buf, Class[] types) {
    for (int i = 0; i < types.length; i++) {
        if (i > 0) buf.append(", ");
        buf.append(fullTypeName(types[i]));
    }
}

void addShortTypeNames(StringBuffer buf, Class[] types) {
    for (int i = 0; i < types.length; i++) {
        if (i > 0) buf.append(", ");
        buf.append(shortTypeName(types[i]));
    }
}

void addTypeArray(StringBuffer buf, Class[] types) {
    addFullTypeNames(buf, types);
}

// lazy version
private String stringRep;
ClassLoader lookupClassLoader = null;

public void setLookupClassLoader(ClassLoader loader) {
    this.lookupClassLoader = loader;
}

private ClassLoader getLookupClassLoader() {
    if (lookupClassLoader == null) lookupClassLoader = this.getClass().getClassLoader();
    return lookupClassLoader;
}

public SignatureImpl(String stringRep) {
    this.stringRep = stringRep;
}

static final char SEP = '-';

String extractString(int n) {
    //System.out.println(n + ": from " + stringRep);

    int startIndex = 0;
    int endIndex = stringRep.indexOf(SEP);
    while (n-- > 0) {

```



```

        startIndex = endIndex+1;
        endIndex = stringRep.indexOf(SEP, startIndex);
    }
    if (endIndex == -1) endIndex = stringRep.length();

    //System.out.println("  " + stringRep.substring(startIndex, endIndex));

    return stringRep.substring(startIndex, endIndex);
}

int extractInt(int n) {
    String s = extractString(n);
    return Integer.parseInt(s, 16);
}

Class extractType(int n) {
    String s = extractString(n);
    return Factory.makeClass(s,getLookupClassLoader());
}

static String[] EMPTY_STRING_ARRAY = new String[0];
static Class[] EMPTY_CLASS_ARRAY = new Class[0];

static final String INNER_SEP = ":";

String[] extractStrings(int n) {
    String s = extractString(n);
    StringTokenizer st = new StringTokenizer(s, INNER_SEP);
    final int N = st.countTokens();
    String[] ret = new String[N];
    for (int i = 0; i < N; i++) ret[i]= st.nextToken();
    return ret;
}

Class[] extractTypes(int n) {
    String s = extractString(n);
    StringTokenizer st = new StringTokenizer(s, INNER_SEP);
    final int N = st.countTokens();
    Class[] ret = new Class[N];
    for (int i = 0; i < N; i++) ret[i]= Factory.makeClass(st.nextToken(),getLookupClassLoader());
    return ret;
}

/*
 * Used for testing
 */
static void setUseCache (boolean b) {

```

```

useCache = b;
}

static boolean getUseCache () {
return useCache;
}

private static interface Cache {

String get(int cacheOffset);

void set(int cacheOffset, String result);

}

// separate implementation so we don't need SoftReference to hold the field...
private static final class CacheImpl implements Cache {
private java.lang.ref.SoftReference toStringCacheRef;

public CacheImpl() {
makeCache();
}

public String get(int cacheOffset) {
String[] cachedArray = array();
if (cachedArray == null) {
return null;
}
return cachedArray[cacheOffset];
}

public void set(int cacheOffset, String result) {
String[] cachedArray = array();
if (cachedArray == null) {
cachedArray = makeCache();
}
cachedArray[cacheOffset] = result;
}

private String[] array() {
return (String[]) toStringCacheRef.get();
}

private String[] makeCache() {
String[] array = new String[3];
toStringCacheRef = new java.lang.ref.SoftReference(array);
return array;
}

```

```

}
}
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*   Xerox/PARC   initial implementation
* *****/

package org.aspectj.runtime.reflect;

import org.aspectj.lang.reflect.SourceLocation;

class SourceLocationImpl implements SourceLocation {
    Class withinType;
    String fileName;
    int line;

    SourceLocationImpl(Class withinType, String fileName, int line) {
        this.withinType = withinType;
        this.fileName = fileName;
        this.line = line;
    }

    public Class getWithinType() { return withinType; }
    public String getFileName() { return fileName; }
    public int getLine() { return line; }
    public int getColumn() { return -1; }

    public String toString() {
        return getFileName() + ":" + getLine();
    }
}
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```

```

* Contributors:
*   Andy Clement - initial implementation
*****

package org.aspectj.runtime.reflect;

import java.lang.reflect.Modifier;

import org.aspectj.lang.reflect.UnlockSignature;

class UnlockSignatureImpl extends SignatureImpl implements UnlockSignature {
    private Class parameterType;

    UnlockSignatureImpl(Class c) {
        super(Modifier.STATIC, "unlock", c);
        parameterType = c;
    }

    UnlockSignatureImpl(String stringRep) {
        super(stringRep);
    }

    protected String createToString(StringMaker sm) {
        if (parameterType == null) parameterType = extractType(3);
        return "unlock("+sm.makeTypeName(parameterType)+)";
    }

    public Class getParameterType() {
        if (parameterType == null) parameterType = extractType(3);
        return parameterType;
    }
}

```

1.3 aspectjweaver 1.8.4

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1.4 bcprov-jdk16 1.36

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1.18 commons-configuration 1.7

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1.19 commons-lang3 3.3

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<http://svn.jackson.codehaus.org/browse/jackson/trunk/README.txt?hb=true>

== Jackson Json-processor ==

This is the Jackson Json-processor package. Project home page can be found

from:

<http://jackson.codehaus.org/>

which also has links to support forums such as mailing lists, as well

as links to obtain source code and binary artifacts.

=== Functionality ===

Jackson implements functionality for:

- * Reading (parsing) and writing (generation) of Json content
- * Data-binding (data-mapping, [de-]serialization) support to allow for converting between Json and Java objects
- * Support for converting to/from other data formats and access APIs, to improve interoperability.

=== Requirements ===

Jackson can be used on standard J2SE 1.5 platform. Some effort is made to support other non-standard platforms as well.

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1.22 Data Mapper for Jackson 1.9.12

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1.25 drm-ssh-client 0.0.3-14

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1.26 drms-cm-ifc 1.4.3-1

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1.27 FindBugs-jsr305 1.3.9

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1.28 guava 17.0

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1.30 Guava: Google Core Libraries for Java

11.0.2

1.31 Jackson 1.9.12

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1.37 Jackson-JAXRS-JSON 2.2.2

1.38 Jackson-module-JAXB-annotations 2.2.2

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1.57 jumi-actors 0.1.196

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1.58 maven-scm-api 1.9.2

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1.62 oro 2.0.8

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1.72 sg-common 1.74.0-3-SNAPSHOT

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