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1.4 cglib 2.1.88

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 */
package net.sf.cglib.proxy;

import java.lang.reflect.Method;
import java.util.*;
import net.sf.cglib.core.*;
import org.objectweb.asm.ClassVisitor;
import org.objectweb.asm.Type;

/**
```



```

* @author Chris Nokleberg
* @version $Id: MixinEmitter.java,v 1.9 2006/08/27 21:04:37 herbyderby Exp $
*/
class MixinEmitter extends ClassEmitter {
    private static final String FIELD_NAME = "CGLIB$DELEGATES";
    private static final Signature CSTRUCT_OBJECT_ARRAY =
        TypeUtils.parseConstructor("Object[]");
    private static final Type MIXIN =
        TypeUtils.parseType("net.sf.cglib.proxy.Mixin");
    private static final Signature NEW_INSTANCE =
        new Signature("newInstance", MIXIN, new Type[]{ Constants.TYPE_OBJECT_ARRAY });

    public MixinEmitter(ClassVisitor v, String className, Class[] classes, int[] route) {
        super(v);

        begin_class(Constants.V1_2,
            Constants.ACC_PUBLIC,
            className,
            MIXIN,
            TypeUtils.getTypes(getInterfaces(classes)),
            Constants.SOURCE_FILE);
        EmitUtils.null_constructor(this);
        EmitUtils.factory_method(this, NEW_INSTANCE);

        declare_field(Constants.ACC_PRIVATE, FIELD_NAME, Constants.TYPE_OBJECT_ARRAY, null);

        CodeEmitter e = begin_method(Constants.ACC_PUBLIC, CSTRUCT_OBJECT_ARRAY, null);
        e.load_this();
        e.super_invoke_constructor();
        e.load_this();
        e.load_arg(0);
        e.putfield(FIELD_NAME);
        e.return_value();
        e.end_method();

        Set unique = new HashSet();
        for (int i = 0; i < classes.length; i++) {
            Method[] methods = getMethods(classes[i]);
            for (int j = 0; j < methods.length; j++) {
                if (unique.add(MethodWrapper.create(methods[j]))) {
                    MethodInfo method = ReflectUtils.getMethodInfo(methods[j]);
                    e = EmitUtils.begin_method(this, method, Constants.ACC_PUBLIC);
                    e.load_this();
                    e.getfield(FIELD_NAME);
                    e.aaload((route != null) ? route[i] : i);
                    e.checkcast(method.getClassInfo().getType());
                    e.load_args();
                    e.invoke(method);
                }
            }
        }
    }
}

```

```

        e.return_value();
        e.end_method();
    }
}

end_class();
}

protected Class[] getInterfaces(Class[] classes) {
    return classes;
}

protected Method[] getMethods(Class type) {
    return type.getMethods();
}
}
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 */
package net.sf.cglib.proxy;

import java.lang.reflect.Method;
import java.lang.reflect.Modifier;
import java.util.*;
import net.sf.cglib.core.CollectionUtils;
import net.sf.cglib.core.ReflectUtils;
import net.sf.cglib.core.RejectModifierPredicate;
import org.objectweb.asm.ClassVisitor;

/**
 * @author Chris Nokleberg
 * @version $Id: MixinEverythingEmitter.java,v 1.3 2004/06/24 21:15:19 herbyderby Exp $
 */
class MixinEverythingEmitter extends MixinEmitter {

```

```

public MixinEverythingEmitter(ClassVisitor v, String className, Class[] classes) {
    super(v, className, classes, null);
}

protected Class[] getInterfaces(Class[] classes) {
    List list = new ArrayList();
    for (int i = 0; i < classes.length; i++) {
        ReflectUtils.addAllInterfaces(classes[i], list);
    }
    return (Class[])list.toArray(new Class[list.size()]);
}

protected Method[] getMethods(Class type) {
    List methods = new ArrayList(Arrays.asList(type.getMethods()));
    CollectionUtils.filter(methods, new RejectModifierPredicate(Modifier.FINAL | Modifier.STATIC));
    return (Method[])methods.toArray(new Method[methods.size()]);
}
}
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 */
package net.sf.cglib.proxy;

import java.lang.reflect.Method;
import net.sf.cglib.core.ReflectUtils;
import org.objectweb.asm.ClassVisitor;

/**
 * @author Chris Nokleberg
 * @version $Id: MixinBeanEmitter.java,v 1.2 2004/06/24 21:15:20 herbyderby Exp $
 */
class MixinBeanEmitter extends MixinEmitter {
    public MixinBeanEmitter(ClassVisitor v, String className, Class[] classes) {
        super(v, className, classes, null);
    }
}

```

```

protected Class[] getInterfaces(Class[] classes) {
    return null;
}

protected Method[] getMethods(Class type) {
    return ReflectUtils.getPropertyMethods(ReflectUtils.getBeanProperties(type), true, true);
}
}
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 */
package net.sf.cglib.reflect;

import java.lang.reflect.*;
import java.util.*;
import net.sf.cglib.core.*;
import org.objectweb.asm.ClassVisitor;
import org.objectweb.asm.Label;
import org.objectweb.asm.Type;

class FastClassEmitter extends ClassEmitter {
    private static final Signature CSTRUCT_CLASS =
        TypeUtils.parseConstructor("Class");
    private static final Signature METHOD_GET_INDEX =
        TypeUtils.parseSignature("int getIndex(String, Class[])");
    private static final Signature SIGNATURE_GET_INDEX =
        new Signature("getIndex", Type.INT_TYPE, new Type[]{ Constants.TYPE_SIGNATURE });
    private static final Signature TO_STRING =
        TypeUtils.parseSignature("String toString()");
    private static final Signature CONSTRUCTOR_GET_INDEX =
        TypeUtils.parseSignature("int getIndex(Class[])");
    private static final Signature INVOKE =
        TypeUtils.parseSignature("Object invoke(int, Object, Object[])");
    private static final Signature NEW_INSTANCE =
        TypeUtils.parseSignature("Object newInstance(int, Object[])");
    private static final Signature GET_MAX_INDEX =

```

```

TypeUtils.parseSignature("int getMaxIndex()");
private static final Signature GET_SIGNATURE_WITHOUT_RETURN_TYPE =
    TypeUtils.parseSignature("String getSignatureWithoutReturnType(String, Class[])");
private static final Type FAST_CLASS =
    TypeUtils.parseType("net.sf.cglib.reflect.FastClass");
private static final Type ILLEGAL_ARGUMENT_EXCEPTION =
    TypeUtils.parseType("IllegalArgumentException");
private static final Type INVOCATION_TARGET_EXCEPTION =
    TypeUtils.parseType("java.lang.reflect.InvocationTargetException");
private static final Type[] INVOCATION_TARGET_EXCEPTION_ARRAY = {
INVOCATION_TARGET_EXCEPTION };

public FastClassEmitter(ClassVisitor v, String className, Class type) {
    super(v);

    Type base = Type.getType(type);
    begin_class(Constants.V1_2, Constants.ACC_PUBLIC, className, FAST_CLASS, null,
Constants.SOURCE_FILE);

    // constructor
    CodeEmitter e = begin_method(Constants.ACC_PUBLIC, CSTRUCT_CLASS, null);
    e.load_this();
    e.load_args();
    e.super_invoke_constructor(CSTRUCT_CLASS);
    e.return_value();
    e.end_method();

    VisibilityPredicate vp = new VisibilityPredicate(type, false);
    List methods = ReflectUtils.addAllMethods(type, new ArrayList());
    CollectionUtils.filter(methods, vp);
    CollectionUtils.filter(methods, new DuplicatesPredicate());
    List constructors = new ArrayList(Arrays.asList(type.getDeclaredConstructors()));
    CollectionUtils.filter(constructors, vp);

    // getIndex(String)
    emitIndexBySignature(methods);

    // getIndex(String, Class[])
    emitIndexByClassArray(methods);

    // getIndex(Class[])
    e = begin_method(Constants.ACC_PUBLIC, CONSTRUCTOR_GET_INDEX, null);
    e.load_args();
    List info = CollectionUtils.transform(constructors, MethodInfoTransformer.getInstance());
    EmitUtils.constructor_switch(e, info, new GetIndexCallback(e, info));
    e.end_method();

    // invoke(int, Object, Object[])

```

```

e = begin_method(Constants.ACC_PUBLIC, INVOKE, INVOCATION_TARGET_EXCEPTION_ARRAY);
e.load_arg(1);
e.checkcast(base);
e.load_arg(0);
invokeSwitchHelper(e, methods, 2, base);
e.end_method();

// newInstance(int, Object[])
e = begin_method(Constants.ACC_PUBLIC, NEW_INSTANCE,
INVOCATION_TARGET_EXCEPTION_ARRAY);
e.new_instance(base);
e.dup();
e.load_arg(0);
invokeSwitchHelper(e, constructors, 1, base);
e.end_method();

// getMaxIndex()
e = begin_method(Constants.ACC_PUBLIC, GET_MAX_INDEX, null);
e.push(methods.size() - 1);
e.return_value();
e.end_method();

end_class();
}

// TODO: support constructor indices ("<init>")
private void emitIndexBySignature(List methods) {
    CodeEmitter e = begin_method(Constants.ACC_PUBLIC, SIGNATURE_GET_INDEX, null);
    List signatures = CollectionUtils.transform(methods, new Transformer() {
        public Object transform(Object obj) {
            return ReflectUtils.getSignature((Method)obj).toString();
        }
    });
    e.load_arg(0);
    e.invoke_virtual(Constants.TYPE_OBJECT, TO_STRING);
    signatureSwitchHelper(e, signatures);
    e.end_method();
}

private static final int TOO_MANY_METHODS = 100; // TODO
private void emitIndexByClassArray(List methods) {
    CodeEmitter e = begin_method(Constants.ACC_PUBLIC, METHOD_GET_INDEX, null);
    if (methods.size() > TOO_MANY_METHODS) {
        // hack for big classes
        List signatures = CollectionUtils.transform(methods, new Transformer() {
            public Object transform(Object obj) {
                String s = ReflectUtils.getSignature((Method)obj).toString();
                return s.substring(0, s.lastIndexOf(',') + 1);
            }
        });
    }
}

```

```

    }
  });
  e.load_args();
  e.invoke_static(FAST_CLASS, GET_SIGNATURE_WITHOUT_RETURN_TYPE);
  signatureSwitchHelper(e, signatures);
} else {
  e.load_args();
  List info = CollectionUtils.transform(methods, MethodInfoTransformer.getInstance());
  EmitUtils.method_switch(e, info, new GetIndexCallback(e, info));
}
e.end_method();
}

private void signatureSwitchHelper(final CodeEmitter e, final List signatures) {
  ObjectSwitchCallback callback = new ObjectSwitchCallback() {
    public void processCase(Object key, Label end) {
      // TODO: remove linear indexOf
      e.push(signatures.indexOf(key));
      e.return_value();
    }
    public void processDefault() {
      e.push(-1);
      e.return_value();
    }
  };
  EmitUtils.string_switch(e,
    (String[])signatures.toArray(new String[signatures.size()]),
    Constants.SWITCH_STYLE_HASH,
    callback);
}

private static void invokeSwitchHelper(final CodeEmitter e, List members, final int arg, final Type base) {
  final List info = CollectionUtils.transform(members, MethodInfoTransformer.getInstance());
  final Label illegalArg = e.make_label();
  Block block = e.begin_block();
  e.process_switch(getIntRange(info.size()), new ProcessSwitchCallback() {
    public void processCase(int key, Label end) {
      MethodInfo method = (MethodInfo)info.get(key);
      Type[] types = method.getSignature().getArgumentTypes();
      for (int i = 0; i < types.length; i++) {
        e.load_arg(arg);
        e.aaload(i);
        e.unbox(types[i]);
      }
      // TODO: change method lookup process so MethodInfo will already reference base
      // instead of superclass when superclass method is inaccessible
      e.invoke(method, base);
      if (!TypeUtils.isConstructor(method)) {

```

```

        e.box(method.getSignature().getReturnType());
    }
    e.return_value();
}
public void processDefault() {
    e.goTo(illegalArg);
}
});
block.end();
EmitUtils.wrap_throwable(block, INVOCATION_TARGET_EXCEPTION);
e.mark(illegalArg);
e.throw_exception(ILLEGAL_ARGUMENT_EXCEPTION, "Cannot find matching method/constructor");
}

```

```

private static class GetIndexCallback implements ObjectSwitchCallback {
    private CodeEmitter e;
    private Map indexes = new HashMap();

```

```

    public GetIndexCallback(CodeEmitter e, List methods) {
        this.e = e;
        int index = 0;
        for (Iterator it = methods.iterator(); it.hasNext();) {
            indexes.put(it.next(), new Integer(index++));
        }
    }
}

```

```

    public void processCase(Object key, Label end) {
        e.push(((Integer)indexes.get(key)).intValue());
        e.return_value();
    }
}

```

```

    public void processDefault() {
        e.push(-1);
        e.return_value();
    }
}

```

```

private static int[] getIntRange(int length) {
    int[] range = new int[length];
    for (int i = 0; i < length; i++) {
        range[i] = i;
    }
    return range;
}
}

```

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 */

```
package net.sf.cglib.beans;
```

```
import java.lang.reflect.Constructor;
import java.lang.reflect.Method;
import java.lang.reflect.Modifier;
import java.util.*;
import net.sf.cglib.core.*;
import org.objectweb.asm.ClassVisitor;
import org.objectweb.asm.Type;
```

```
class BulkBeanEmitter extends ClassEmitter {
    private static final Signature GET_PROPERTY_VALUES =
        TypeUtils.parseSignature("void getPropertyValues(Object, Object[])");
    private static final Signature SET_PROPERTY_VALUES =
        TypeUtils.parseSignature("void setPropertyValues(Object, Object[])");
    private static final Signature CSTRUCT_EXCEPTION =
        TypeUtils.parseConstructor("Throwable, int");
    private static final Type BULK_BEAN =
        TypeUtils.parseType("net.sf.cglib.beans.BulkBean");
    private static final Type BULK_BEAN_EXCEPTION =
        TypeUtils.parseType("net.sf.cglib.beans.BulkBeanException");

    public BulkBeanEmitter(ClassVisitor v,
        String className,
        Class target,
        String[] getterNames,
        String[] setterNames,
        Class[] types) {
        super(v);

        Method[] getters = new Method[getterNames.length];
        Method[] setters = new Method[setterNames.length];
        validate(target, getterNames, setterNames, types, getters, setters);

        begin_class(Constants.V1_2, Constants.ACC_PUBLIC, className, BULK_BEAN, null,
            Constants.SOURCE_FILE);
```

```

EmitUtils.null_constructor(this);
generateGet(target, getters);
generateSet(target, setters);
end_class();
}

private void generateGet(final Class target, final Method[] getters) {
    CodeEmitter e = begin_method(Constants.ACC_PUBLIC, GET_PROPERTY_VALUES, null);
    if (getters.length >= 0) {
        e.load_arg(0);
        e.checkcast(Type.getType(target));
        Local bean = e.make_local();
        e.store_local(bean);
        for (int i = 0; i < getters.length; i++) {
            if (getters[i] != null) {
                MethodInfo getter = ReflectUtils.getMethodInfo(getters[i]);
                e.load_arg(1);
                e.push(i);
                e.load_local(bean);
                e.invoke(getter);
                e.box(getter.getSignature().getReturnType());
                e.aastore();
            }
        }
    }
    e.return_value();
    e.end_method();
}

```

```

private void generateSet(final Class target, final Method[] setters) {
    // setPropertyValues
    CodeEmitter e = begin_method(Constants.ACC_PUBLIC, SET_PROPERTY_VALUES, null);
    if (setters.length > 0) {
        Local index = e.make_local(Type.INT_TYPE);
        e.push(0);
        e.store_local(index);
        e.load_arg(0);
        e.checkcast(Type.getType(target));
        e.load_arg(1);
        Block handler = e.begin_block();
        int lastIndex = 0;
        for (int i = 0; i < setters.length; i++) {
            if (setters[i] != null) {
                MethodInfo setter = ReflectUtils.getMethodInfo(setters[i]);
                int diff = i - lastIndex;
                if (diff > 0) {
                    e.iinc(index, diff);
                    lastIndex = i;
                }
            }
        }
    }
}

```

```

    }
    e.dup2();
    e.aaload(i);
    e.unbox(setter.getSignature().getArgumentTypes()[0]);
    e.invoke(setter);
  }
}
handler.end();
e.return_value();
e.catch_exception(handler, Constants.TYPE_THROWABLE);
e.new_instance(BULK_BEAN_EXCEPTION);
e.dup_x1();
e.swap();
e.load_local(index);
e.invoke_constructor(BULK_BEAN_EXCEPTION, CSTRUCT_EXCEPTION);
e.athrow();
} else {
  e.return_value();
}
e.end_method();
}

private static void validate(Class target,
    String[] getters,
    String[] setters,
    Class[] types,
    Method[] getters_out,
    Method[] setters_out) {
  int i = -1;
  if (setters.length != types.length || getters.length != types.length) {
    throw new BulkBeanException("accessor array length must be equal type array length", i);
  }
  try {
    for (i = 0; i < types.length; i++) {
      if (getters[i] != null) {
        Method method = ReflectUtils.findDeclaredMethod(target, getters[i], null);
        if (method.getReturnType() != types[i]) {
          throw new BulkBeanException("Specified type " + types[i] +
            " does not match declared type " + method.getReturnType(), i);
        }
      }
      if (Modifier.isPrivate(method.getModifiers())) {
        throw new BulkBeanException("Property is private", i);
      }
      getters_out[i] = method;
    }
    if (setters[i] != null) {
      Method method = ReflectUtils.findDeclaredMethod(target, setters[i], new Class[]{ types[i] });
      if (Modifier.isPrivate(method.getModifiers())) {

```

```

        throw new BulkBeanException("Property is private", i);
    }
    setters_out[i] = method;
}
}
} catch (NoSuchMethodException e) {
    throw new BulkBeanException("Cannot find specified property", i);
}
}
}
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 */
package net.sf.cglib.beans;

import java.beans.*;
import java.util.*;
import net.sf.cglib.core.*;
import org.objectweb.asm.ClassVisitor;
import org.objectweb.asm.Label;
import org.objectweb.asm.Type;

class BeanMapEmitter extends ClassEmitter {
    private static final Type BEAN_MAP =
        TypeUtils.parseType("net.sf.cglib.beans.BeanMap");
    private static final Type FIXED_KEY_SET =
        TypeUtils.parseType("net.sf.cglib.beans.FixedKeySet");
    private static final Signature CSTRUCT_OBJECT =
        TypeUtils.parseConstructor("Object");
    private static final Signature CSTRUCT_STRING_ARRAY =
        TypeUtils.parseConstructor("String[]");
    private static final Signature BEAN_MAP_GET =
        TypeUtils.parseSignature("Object get(Object, Object)");
    private static final Signature BEAN_MAP_PUT =
        TypeUtils.parseSignature("Object put(Object, Object, Object)");
    private static final Signature KEY_SET =

```

```

TypeUtils.parseSignature("java.util.Set keySet()");
private static final Signature NEW_INSTANCE =
    new Signature("newInstance", BEAN_MAP, new Type[]{ Constants.TYPE_OBJECT });
private static final Signature GET_PROPERTY_TYPE =
    TypeUtils.parseSignature("Class getPropertyType(String)");

public BeanMapEmitter(ClassVisitor v, String className, Class type, int require) {
    super(v);

    begin_class(Constants.V1_2, Constants.ACC_PUBLIC, className, BEAN_MAP, null,
Constants.SOURCE_FILE);
    EmitUtils.null_constructor(this);
    EmitUtils.factory_method(this, NEW_INSTANCE);
    generateConstructor();

    Map getters = makePropertyMap(ReflectUtils.getBeanGetters(type));
    Map setters = makePropertyMap(ReflectUtils.getBeanSetters(type));
    Map allProps = new HashMap();
    allProps.putAll(getters);
    allProps.putAll(setters);

    if (require != 0) {
        for (Iterator it = allProps.keySet().iterator(); it.hasNext(); ) {
            String name = (String)it.next();
            if (((require & BeanMap.REQUIRE_GETTER) != 0) && !getters.containsKey(name) ||
                ((require & BeanMap.REQUIRE_SETTER) != 0) && !setters.containsKey(name)) {
                it.remove();
                getters.remove(name);
                setters.remove(name);
            }
        }
    }
    generateGet(type, getters);
    generatePut(type, setters);

    String[] allNames = getNames(allProps);
    generateKeySet(allNames);
    generateGetPropertyType(allProps, allNames);
    end_class();
}

private Map makePropertyMap(PropertyDescriptor[] props) {
    Map names = new HashMap();
    for (int i = 0; i < props.length; i++) {
        names.put(((PropertyDescriptor)props[i]).getName(), props[i]);
    }
    return names;
}

```

```

private String[] getNames(Map propertyMap) {
    return (String[])propertyMap.keySet().toArray(new String[propertyMap.size()]);
}

private void generateConstructor() {
    CodeEmitter e = begin_method(Constants.ACC_PUBLIC, CSTRUCT_OBJECT, null);
    e.load_this();
    e.load_arg(0);
    e.super_invoke_constructor(CSTRUCT_OBJECT);
    e.return_value();
    e.end_method();
}

private void generateGet(Class type, final Map getters) {
    final CodeEmitter e = begin_method(Constants.ACC_PUBLIC, BEAN_MAP_GET, null);
    e.load_arg(0);
    e.checkcast(Type.getType(type));
    e.load_arg(1);
    e.checkcast(Constants.TYPE_STRING);
    EmitUtils.string_switch(e, getNames(getters), Constants.SWITCH_STYLE_HASH, new
ObjectSwitchCallback() {
        public void processCase(Object key, Label end) {
            PropertyDescriptor pd = (PropertyDescriptor)getters.get(key);
            MethodInfo method = ReflectUtils.getMethodInfo(pd.getReadMethod());
            e.invoke(method);
            e.box(method.getSignature().getReturnType());
            e.return_value();
        }
        public void processDefault() {
            e.aconst_null();
            e.return_value();
        }
    });
    e.end_method();
}

private void generatePut(Class type, final Map setters) {
    final CodeEmitter e = begin_method(Constants.ACC_PUBLIC, BEAN_MAP_PUT, null);
    e.load_arg(0);
    e.checkcast(Type.getType(type));
    e.load_arg(1);
    e.checkcast(Constants.TYPE_STRING);
    EmitUtils.string_switch(e, getNames(setters), Constants.SWITCH_STYLE_HASH, new
ObjectSwitchCallback() {
        public void processCase(Object key, Label end) {
            PropertyDescriptor pd = (PropertyDescriptor)setters.get(key);
            if (pd.getReadMethod() == null) {

```

```

        e.aconst_null();
    } else {
        MethodInfo read = ReflectUtils.getMethodInfo(pd.getReadMethod());
        e.dup();
        e.invoke(read);
        e.box(read.getSignature().getReturnType());
    }
    e.swap(); // move old value behind bean
    e.load_arg(2); // new value
    MethodInfo write = ReflectUtils.getMethodInfo(pd.getWriteMethod());
    e.unbox(write.getSignature().getArgumentTypes()[0]);
    e.invoke(write);
    e.return_value();
}
public void processDefault() {
    // fall-through
}
});
e.aconst_null();
e.return_value();
e.end_method();
}

private void generateKeySet(String[] allNames) {
    // static initializer
    declare_field(Constants.ACC_STATIC | Constants.ACC_PRIVATE, "keys", FIXED_KEY_SET, null);

    CodeEmitter e = begin_static();
    e.new_instance(FIXED_KEY_SET);
    e.dup();
    EmitUtils.push_array(e, allNames);
    e.invoke_constructor(FIXED_KEY_SET, CSTRUCT_STRING_ARRAY);
    e.putfield("keys");
    e.return_value();
    e.end_method();

    // keySet
    e = begin_method(Constants.ACC_PUBLIC, KEY_SET, null);
    e.load_this();
    e.getfield("keys");
    e.return_value();
    e.end_method();
}

private void generateGetPropertyType(final Map allProps, String[] allNames) {
    final CodeEmitter e = begin_method(Constants.ACC_PUBLIC, GET_PROPERTY_TYPE, null);
    e.load_arg(0);
    EmitUtils.string_switch(e, allNames, Constants.SWITCH_STYLE_HASH, new ObjectSwitchCallback() {

```

```

    public void processCase(Object key, Label end) {
        PropertyDescriptor pd = (PropertyDescriptor)allProps.get(key);
        EmitUtils.load_class(e, Type.getType(pd.getPropertyType()));
        e.return_value();
    }
    public void processDefault() {
        e.aconst_null();
        e.return_value();
    }
});
e.end_method();
}
}
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*/
package net.sf.cglib.transform;

import net.sf.cglib.core.ClassEmitter;

abstract public class ClassEmitterTransformer extends ClassEmitter implements ClassTransformer {
}
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*/

```



```

*/
package net.sf.cglib.core;

import java.io.*;
import java.util.*;
import org.objectweb.asm.*;

/**
 * @author Juozas Baliuka, Chris Nokleberg
 */
public class ClassEmitter extends ClassAdapter {
    private ClassInfo classInfo;
    private Map fieldInfo;

    private static int hookCounter;
    private MethodVisitor rawStaticInit;
    private CodeEmitter staticInit;
    private CodeEmitter staticHook;
    private Signature staticHookSig;

    public ClassEmitter(ClassVisitor cv) {
        super(null);
        setTarget(cv);
    }

    public ClassEmitter() {
        super(null);
    }

    public void setTarget(ClassVisitor cv) {
        this.cv = cv;
        fieldInfo = new HashMap();

        // just to be safe
        staticInit = staticHook = null;
        staticHookSig = null;
    }

    synchronized private static int getNextHook() {
        return ++hookCounter;
    }

    public ClassInfo getClassInfo() {
        return classInfo;
    }

    public void begin_class(int version, final int access, String className, final Type superType, final Type[]
    interfaces, String source) {

```

```

final Type classType = Type.getType("L" + className.replace('.', '/') + ";");
classInfo = new ClassInfo() {
    public Type getType() {
        return classType;
    }
    public Type getSuperType() {
        return (superType != null) ? superType : Constants.TYPE_OBJECT;
    }
    public Type[] getInterfaces() {
        return interfaces;
    }
    public int getModifiers() {
        return access;
    }
};
cv.visit(version,
    access,
    classInfo.getType().getInternalName(),
    null,
    classInfo.getSuperType().getInternalName(),
    TypeUtils.toInternalNames(interfaces));
if (source != null)
    cv.visitSource(source, null);
init();
}

public CodeEmitter getStaticHook() {
    if (TypeUtils.isInterface(getAccess())) {
        throw new IllegalStateException("static hook is invalid for this class");
    }
    if (staticHook == null) {
        staticHookSig = new Signature("CGLIB$STATICHOOK" + getNextHook(), "()V");
        staticHook = begin_method(Constants.ACC_STATIC,
            staticHookSig,
            null);
        if (staticInit != null) {
            staticInit.invoke_static_this(staticHookSig);
        }
    }
    return staticHook;
}

protected void init() {
}

public int getAccess() {
    return classInfo.getModifiers();
}

```

```

public Type getClassType() {
    return classInfo.getType();
}

public Type getSuperType() {
    return classInfo.getSuperType();
}

public void end_class() {
    if (staticHook != null && staticInit == null) {
        // force creation of static init
        begin_static();
    }
    if (staticInit != null) {
        staticHook.return_value();
        staticHook.end_method();
        rawStaticInit.visitInsn(Constants.RETURN);
        rawStaticInit.visitMaxs(0, 0);
        staticInit = staticHook = null;
        staticHookSig = null;
    }
    cv.visitEnd();
}

public CodeEmitter begin_method(int access, Signature sig, Type[] exceptions) {
    if (classInfo == null)
        throw new IllegalStateException("classInfo is null! " + this);
    MethodVisitor v = cv.visitMethod(access,
        sig.getName(),
        sig.getDescriptor(),
        null,
        TypeUtils.toInternalNames(exceptions));
    if (sig.equals(Constants.SIG_STATIC) && !TypeUtils.isInterface(getAccess())) {
        rawStaticInit = v;
        MethodVisitor wrapped = new MethodAdapter(v) {
            public void visitMaxs(int maxStack, int maxLocals) {
                // ignore
            }
            public void visitInsn(int insn) {
                if (insn != Constants.RETURN) {
                    super.visitInsn(insn);
                }
            }
        };
        staticInit = new CodeEmitter(this, wrapped, access, sig, exceptions);
        if (staticHook == null) {
            // force static hook creation

```

```

        getStaticHook();
    } else {
        staticInit.invoke_static_this(staticHookSig);
    }
    return staticInit;
} else if (sig.equals(staticHookSig)) {
    return new CodeEmitter(this, v, access, sig, exceptions) {
        public boolean isStaticHook() {
            return true;
        }
    };
} else {
    return new CodeEmitter(this, v, access, sig, exceptions);
}
}

public CodeEmitter begin_static() {
    return begin_method(Constants.ACC_STATIC, Constants.SIG_STATIC, null);
}

public void declare_field(int access, String name, Type type, Object value) {
    FieldInfo existing = (FieldInfo)fieldInfo.get(name);
    FieldInfo info = new FieldInfo(access, name, type, value);
    if (existing != null) {
        if (!info.equals(existing)) {
            throw new IllegalArgumentException("Field \"" + name + "\" has been declared differently");
        }
    } else {
        fieldInfo.put(name, info);
        cv.visitField(access, name, type.getDescriptor(), null, value);
    }
}

// TODO: make public?
boolean isFieldDeclared(String name) {
    return fieldInfo.get(name) != null;
}

FieldInfo getFieldInfo(String name) {
    FieldInfo field = (FieldInfo)fieldInfo.get(name);
    if (field == null) {
        throw new IllegalArgumentException("Field " + name + " is not declared in " +
getClassType().getClassName());
    }
    return field;
}

static class FieldInfo {

```

```

int access;
String name;
Type type;
Object value;

public FieldInfo(int access, String name, Type type, Object value) {
    this.access = access;
    this.name = name;
    this.type = type;
    this.value = value;
}

public boolean equals(Object o) {
    if (o == null)
        return false;
    if (!(o instanceof FieldInfo))
        return false;
    FieldInfo other = (FieldInfo)o;
    if (access != other.access ||
        !name.equals(other.name) ||
        !type.equals(other.type)) {
        return false;
    }
    if ((value == null) ^ (other.value == null))
        return false;
    if (value != null && !value.equals(other.value))
        return false;
    return true;
}

public int hashCode() {
    return access ^ name.hashCode() ^ type.hashCode() ^ ((value == null) ? 0 : value.hashCode());
}

public void visit(int version,
                 int access,
                 String name,
                 String signature,
                 String superName,
                 String[] interfaces) {
    begin_class(version,
               access,
               name.replace('/', '.'),
               TypeUtils.fromInternalName(superName),
               TypeUtils.fromInternalNames(interfaces),
               null); // TODO
}

```

```

public void visitEnd() {
    end_class();
}

public FieldVisitor visitField(int access,
                               String name,
                               String desc,
                               String signature,
                               Object value) {
    declare_field(access, name, Type.getType(desc), value);
    return null; // TODO
}

public MethodVisitor visitMethod(int access,
                                  String name,
                                  String desc,
                                  String signature,
                                  String[] exceptions) {
    return begin_method(access,
                       new Signature(name, desc),
                       TypeUtils.fromInternalNames(exceptions));
}
}
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 */
package net.sf.cglib.core;

import java.util.Set;

/**
 * Customize the generated class name for {@link AbstractClassGenerator}-based utilities.
 */
public interface NamingPolicy {
    /**

```

- * Choose a name for a generated class.
- * @param prefix a dotted-name chosen by the generating class (possibly to put the generated class in a particular package)
- * @param source the fully-qualified class name of the generating class (for example "net.sf.cglib.Enhancer")
- * @param key A key object representing the state of the parameters; for caching to work properly, equal keys should result
 - * in the same generated class name. The default policy incorporates `key.hashCode()` into the class name.
- * @param names a predicate that returns true if the given classname has already been used in the same ClassLoader.

- * @return the fully-qualified class name

*/

```
String getClassName(String prefix, String source, Object key, Predicate names);
```

/**

- * The `NamingPolicy` in use does not currently, but may
- * in the future, affect the caching of classes generated by { @link
- * `AbstractClassGenerator`}, so this is a reminder that you should
- * correctly implement `equals` and `hashCode`
- * to avoid generating too many classes.

*/

```
boolean equals(Object o);
```

}

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*/

```
package net.sf.cglib.core;
```

```
import java.io.*;
```

```
import java.util.*;
```

```
import org.objectweb.asm.*;
```

/**

- * @author Juozas Baliuka, Chris Nokleberg

*/

```
public class CodeEmitter extends LocalVariablesSorter {
```

```

private static final Signature BOOLEAN_VALUE =
    TypeUtils.parseSignature("boolean booleanValue()");
private static final Signature CHAR_VALUE =
    TypeUtils.parseSignature("char charValue()");
private static final Signature LONG_VALUE =
    TypeUtils.parseSignature("long longValue()");
private static final Signature DOUBLE_VALUE =
    TypeUtils.parseSignature("double doubleValue()");
private static final Signature FLOAT_VALUE =
    TypeUtils.parseSignature("float floatValue()");
private static final Signature INT_VALUE =
    TypeUtils.parseSignature("int intValue()");
private static final Signature CSTRUCT_NULL =
    TypeUtils.parseConstructor("");
private static final Signature CSTRUCT_STRING =
    TypeUtils.parseConstructor("String");

```

```

public static final int ADD = Constants.IADD;
public static final int MUL = Constants.IMUL;
public static final int XOR = Constants.IXOR;
public static final int USHR = Constants.IUSHR;
public static final int SUB = Constants.ISUB;
public static final int DIV = Constants.IDIV;
public static final int NEG = Constants.INEG;
public static final int REM = Constants.IREM;
public static final int AND = Constants.IAND;
public static final int OR = Constants.IOR;

```

```

public static final int GT = Constants.IFGT;
public static final int LT = Constants.IFLT;
public static final int GE = Constants.IFGE;
public static final int LE = Constants.IFLE;
public static final int NE = Constants.IFNE;
public static final int EQ = Constants.IFEQ;

```

```

private ClassEmitter ce;
private State state;

```

```

private static class State
extends MethodInfo
{
    ClassInfo classInfo;
    int access;
    Signature sig;
    Type[] argumentTypes;
    int localOffset;
    Type[] exceptionTypes;
}

```



```

State(ClassInfo classInfo, int access, Signature sig, Type[] exceptionTypes) {
    this.classInfo = classInfo;
    this.access = access;
    this.sig = sig;
    this.exceptionTypes = exceptionTypes;
    localOffset = TypeUtils.isStatic(access) ? 0 : 1;
    argumentTypes = sig.getArgumentTypes();
}

public ClassInfo getClassInfo() {
    return classInfo;
}

public int getModifiers() {
    return access;
}

public Signature getSignature() {
    return sig;
}

public Type[] getExceptionTypes() {
    return exceptionTypes;
}

public Attribute getAttribute() {
    // TODO
    return null;
}
}

CodeEmitter(ClassEmitter ce, MethodVisitor mv, int access, Signature sig, Type[] exceptionTypes) {
    super(access, sig.getDescriptor(), mv);
    this.ce = ce;
    state = new State(ce.getClassInfo(), access, sig, exceptionTypes);
}

public CodeEmitter(CodeEmitter wrap) {
    super(wrap);
    this.ce = wrap.ce;
    this.state = wrap.state;
}

public boolean isStaticHook() {
    return false;
}

public Signature getSignature() {

```

```

    return state.sig;
}

public Type getReturnType() {
    return state.sig.getReturnType();
}

public MethodInfo getMethodInfo() {
    return state;
}

public ClassEmitter getClassEmitter() {
    return ce;
}

public void end_method() {
    visitMaxs(0, 0);
}

public Block begin_block() {
    return new Block(this);
}

public void catch_exception(Block block, Type exception) {
    if (block.getEnd() == null) {
        throw new IllegalStateException("end of block is unset");
    }
    mv.visitTryCatchBlock(block.getStart(),
        block.getEnd(),
        mark(),
        exception.getInternalName());
}

public void goTo(Label label) { mv.visitJumpInsn(Constants.GOTO, label); }
public void ifnull(Label label) { mv.visitJumpInsn(Constants.IFNULL, label); }
public void ifnonnull(Label label) { mv.visitJumpInsn(Constants.IFNONNULL, label); }

public void if_jump(int mode, Label label) {
    mv.visitJumpInsn(mode, label);
}

public void if_icmp(int mode, Label label) {
    if_cmp(Type.INT_TYPE, mode, label);
}

public void if_cmp(Type type, int mode, Label label) {
    int intOp = -1;
    int jumpmode = mode;

```

```

switch (mode) {
case GE: jumpmode = LT; break;
case LE: jumpmode = GT; break;
}
switch (type.getSort()) {
case Type.LONG:
    mv.visitInsn(Constants.LCMP);
    break;
case Type.DOUBLE:
    mv.visitInsn(Constants.DCMPG);
    break;
case Type.FLOAT:
    mv.visitInsn(Constants.FCMPG);
    break;
case Type.ARRAY:
case Type.OBJECT:
    switch (mode) {
    case EQ:
        mv.visitJumpInsn(Constants.IF_ACMPEQ, label);
        return;
    case NE:
        mv.visitJumpInsn(Constants.IF_ACMUNE, label);
        return;
    }
    throw new IllegalArgumentException("Bad comparison for type " + type);
default:
    switch (mode) {
    case EQ: intOp = Constants.IF_ICMPEQ; break;
    case NE: intOp = Constants.IF_ICMUNE; break;
    case GE: swap(); /* fall through */
    case LT: intOp = Constants.IF_ICMPLT; break;
    case LE: swap(); /* fall through */
    case GT: intOp = Constants.IF_ICMPGT; break;
    }
    mv.visitJumpInsn(intOp, label);
    return;
}
if_jump(jumpmode, label);
}

public void pop() { mv.visitInsn(Constants.POP); }
public void pop2() { mv.visitInsn(Constants.POP2); }
public void dup() { mv.visitInsn(Constants.DUP); }
public void dup2() { mv.visitInsn(Constants.DUP2); }
public void dup_x1() { mv.visitInsn(Constants.DUP_X1); }
public void dup_x2() { mv.visitInsn(Constants.DUP_X2); }
public void dup2_x1() { mv.visitInsn(Constants.DUP2_X1); }
public void dup2_x2() { mv.visitInsn(Constants.DUP2_X2); }

```

```

public void swap() { mv.visitInsn(Constants.SWAP); }
public void aconst_null() { mv.visitInsn(Constants.ACONST_NULL); }

public void swap(Type prev, Type type) {
    if (type.getSize() == 1) {
        if (prev.getSize() == 1) {
            swap(); // same as dup_x1(), pop();
        } else {
            dup_x2();
            pop();
        }
    } else {
        if (prev.getSize() == 1) {
            dup2_x1();
            pop2();
        } else {
            dup2_x2();
            pop2();
        }
    }
}

public void monitorenter() { mv.visitInsn(Constants.MONITORENTER); }
public void monitorexit() { mv.visitInsn(Constants.MONITOREXIT); }

public void math(int op, Type type) { mv.visitInsn(type.getOpcode(op)); }

public void array_load(Type type) { mv.visitInsn(type.getOpcode(Constants.IALOAD)); }
public void array_store(Type type) { mv.visitInsn(type.getOpcode(Constants.IASTORE)); }

/**
 * Casts from one primitive numeric type to another
 */
public void cast_numeric(Type from, Type to) {
    if (from != to) {
        if (from == Type.DOUBLE_TYPE) {
            if (to == Type.FLOAT_TYPE) {
                mv.visitInsn(Constants.D2F);
            } else if (to == Type.LONG_TYPE) {
                mv.visitInsn(Constants.D2L);
            } else {
                mv.visitInsn(Constants.D2I);
                cast_numeric(Type.INT_TYPE, to);
            }
        } else if (from == Type.FLOAT_TYPE) {
            if (to == Type.DOUBLE_TYPE) {
                mv.visitInsn(Constants.F2D);
            } else if (to == Type.LONG_TYPE) {

```

```

        mv.visitInsn(Constants.F2L);
    } else {
        mv.visitInsn(Constants.F2I);
        cast_numeric(Type.INT_TYPE, to);
    }
} else if (from == Type.LONG_TYPE) {
    if (to == Type.DOUBLE_TYPE) {
        mv.visitInsn(Constants.L2D);
    } else if (to == Type.FLOAT_TYPE) {
        mv.visitInsn(Constants.L2F);
    } else {
        mv.visitInsn(Constants.L2I);
        cast_numeric(Type.INT_TYPE, to);
    }
} else {
    if (to == Type.BYTE_TYPE) {
        mv.visitInsn(Constants.I2B);
    } else if (to == Type.CHAR_TYPE) {
        mv.visitInsn(Constants.I2C);
    } else if (to == Type.DOUBLE_TYPE) {
        mv.visitInsn(Constants.I2D);
    } else if (to == Type.FLOAT_TYPE) {
        mv.visitInsn(Constants.I2F);
    } else if (to == Type.LONG_TYPE) {
        mv.visitInsn(Constants.I2L);
    } else if (to == Type.SHORT_TYPE) {
        mv.visitInsn(Constants.I2S);
    }
}
}
}
}

```

```

public void push(int i) {
    if (i < -1) {
        mv.visitLdcInsn(new Integer(i));
    } else if (i <= 5) {
        mv.visitInsn(TypeUtils.ICONST(i));
    } else if (i <= Byte.MAX_VALUE) {
        mv.visitIntInsn(Constants.BIPUSH, i);
    } else if (i <= Short.MAX_VALUE) {
        mv.visitIntInsn(Constants.SIPUSH, i);
    } else {
        mv.visitLdcInsn(new Integer(i));
    }
}
}

```

```

public void push(long value) {
    if (value == 0L || value == 1L) {

```

```

        mv.visitInsn(TypeUtils.LCONST(value));
    } else {
        mv.visitLdcInsn(new Long(value));
    }
}

public void push(float value) {
    if (value == 0f || value == 1f || value == 2f) {
        mv.visitInsn(TypeUtils.FCONST(value));
    } else {
        mv.visitLdcInsn(new Float(value));
    }
}

public void push(double value) {
    if (value == 0d || value == 1d) {
        mv.visitInsn(TypeUtils.DCONST(value));
    } else {
        mv.visitLdcInsn(new Double(value));
    }
}

public void push(String value) {
    mv.visitLdcInsn(value);
}

public void newarray() {
    newarray(Constants.TYPE_OBJECT);
}

public void newarray(Type type) {
    if (TypeUtils.isPrimitive(type)) {
        mv.visitInsn(Constants.NEWARRAY, TypeUtils.NEWARRAY(type));
    } else {
        emit_type(Constants.ANEWARRAY, type);
    }
}

public void arraylength() {
    mv.visitInsn(Constants.ARRAYLENGTH);
}

public void load_this() {
    if (TypeUtils.isStatic(state.access)) {
        throw new IllegalStateException("no 'this' pointer within static method");
    }
    mv.visitVarInsn(Constants.ALOAD, 0);
}

```

```

/**
 * Pushes all of the arguments of the current method onto the stack.
 */
public void load_args() {
    load_args(0, state.argumentTypes.length);
}

/**
 * Pushes the specified argument of the current method onto the stack.
 * @param index the zero-based index into the argument list
 */
public void load_arg(int index) {
    load_local(state.argumentTypes[index],
               state.localOffset + skipArgs(index));
}

// zero-based (see load_this)
public void load_args(int fromArg, int count) {
    int pos = state.localOffset + skipArgs(fromArg);
    for (int i = 0; i < count; i++) {
        Type t = state.argumentTypes[fromArg + i];
        load_local(t, pos);
        pos += t.getSize();
    }
}

private int skipArgs(int numArgs) {
    int amount = 0;
    for (int i = 0; i < numArgs; i++) {
        amount += state.argumentTypes[i].getSize();
    }
    return amount;
}

private void load_local(Type t, int pos) {
    // TODO: make t == null ok?
    mv.visitVarInsn(t.getOpcode(Constants.ILOAD), pos);
}

private void store_local(Type t, int pos) {
    // TODO: make t == null ok?
    mv.visitVarInsn(t.getOpcode(Constants.ISTORE), pos);
}

public void iinc(Local local, int amount) {
    mv.visitIincInsn(local.getIndex(), amount);
}

```

```

public void store_local(Local local) {
    store_local(local.getType(), local.getIndex());
}

public void load_local(Local local) {
    load_local(local.getType(), local.getIndex());
}

public void return_value() {
    mv.visitInsn(state.sig.getReturnType().getOpcode(Constants.IRETURN));
}

public void getfield(String name) {
    ClassEmitter.FieldInfo info = ce.getFieldInfo(name);
    int opcode = TypeUtils.isStatic(info.access) ? Constants.GETSTATIC : Constants.GETFIELD;
    emit_field(opcode, ce.getClassType(), name, info.type);
}

public void putfield(String name) {
    ClassEmitter.FieldInfo info = ce.getFieldInfo(name);
    int opcode = TypeUtils.isStatic(info.access) ? Constants.PUTSTATIC : Constants.PUTFIELD;
    emit_field(opcode, ce.getClassType(), name, info.type);
}

public void super_getfield(String name, Type type) {
    emit_field(Constants.GETFIELD, ce.getSuperType(), name, type);
}

public void super_putfield(String name, Type type) {
    emit_field(Constants.PUTFIELD, ce.getSuperType(), name, type);
}

public void super_getstatic(String name, Type type) {
    emit_field(Constants.GETSTATIC, ce.getSuperType(), name, type);
}

public void super_putstatic(String name, Type type) {
    emit_field(Constants.PUTSTATIC, ce.getSuperType(), name, type);
}

public void getfield(Type owner, String name, Type type) {
    emit_field(Constants.GETFIELD, owner, name, type);
}

public void putfield(Type owner, String name, Type type) {
    emit_field(Constants.PUTFIELD, owner, name, type);
}

```



```

public void getstatic(Type owner, String name, Type type) {
    emit_field(Constants.GETSTATIC, owner, name, type);
}

public void putstatic(Type owner, String name, Type type) {
    emit_field(Constants.PUTSTATIC, owner, name, type);
}

// package-protected for EmitUtils, try to fix
void emit_field(int opcode, Type ctype, String name, Type ftype) {
    mv.visitFieldInsn(opcode,
        ctype.getInternalName(),
        name,
        ftype.getDescriptor());
}

public void super_invoke() {
    super_invoke(state.sig);
}

public void super_invoke(Signature sig) {
    emit_invoke(Constants.INVOKESPECIAL, ce.getSuperType(), sig);
}

public void invoke_constructor(Type type) {
    invoke_constructor(type, CSTRUCT_NULL);
}

public void super_invoke_constructor() {
    invoke_constructor(ce.getSuperType());
}

public void invoke_constructor_this() {
    invoke_constructor(ce.getClassType());
}

private void emit_invoke(int opcode, Type type, Signature sig) {
    if (sig.getName().equals(Constants.CONSTRUCTOR_NAME) &&
        ((opcode == Constants.INVOKEVIRTUAL) ||
         (opcode == Constants.INVOKESTATIC))) {
        // TODO: error
    }
    mv.visitMethodInsn(opcode,
        type.getInternalName(),
        sig.getName(),
        sig.getDescriptor());
}

```

```

public void invoke_interface(Type owner, Signature sig) {
    emit_invoke(Constants.INVOKEINTERFACE, owner, sig);
}

public void invoke_virtual(Type owner, Signature sig) {
    emit_invoke(Constants.INVOKEVIRTUAL, owner, sig);
}

public void invoke_static(Type owner, Signature sig) {
    emit_invoke(Constants.INVOKESTATIC, owner, sig);
}

public void invoke_virtual_this(Signature sig) {
    invoke_virtual(ce.getClassType(), sig);
}

public void invoke_static_this(Signature sig) {
    invoke_static(ce.getClassType(), sig);
}

public void invoke_constructor(Type type, Signature sig) {
    emit_invoke(Constants.INVOKESPECIAL, type, sig);
}

public void invoke_constructor_this(Signature sig) {
    invoke_constructor(ce.getClassType(), sig);
}

public void super_invoke_constructor(Signature sig) {
    invoke_constructor(ce.getSuperType(), sig);
}

public void new_instance_this() {
    new_instance(ce.getClassType());
}

public void new_instance(Type type) {
    emit_type(Constants.NEW, type);
}

private void emit_type(int opcode, Type type) {
    String desc;
    if (TypeUtils.isArray(type)) {
        desc = type.getDescriptor();
    } else {
        desc = type.getInternalName();
    }
    mv.visitTypeInsn(opcode, desc);
}

```

```

}

public void aaload(int index) {
    push(index);
    aaload();
}

public void aaload() { mv.visitInsn(Constants.AALOAD); }
public void aastore() { mv.visitInsn(Constants.AASTORE); }
public void athrow() { mv.visitInsn(Constants.ATHROW); }

public Label make_label() {
    return new Label();
}

public Local make_local() {
    return make_local(Constants.TYPE_OBJECT);
}

public Local make_local(Type type) {
    return new Local(newLocal(type.getSize()), type);
}

public void checkcast_this() {
    checkcast(ce.getClassType());
}

public void checkcast(Type type) {
    if (!type.equals(Constants.TYPE_OBJECT)) {
        emit_type(Constants.CHECKCAST, type);
    }
}

public void instance_of(Type type) {
    emit_type(Constants.INSTANCEOF, type);
}

public void instance_of_this() {
    instance_of(ce.getClassType());
}

public void process_switch(int[] keys, ProcessSwitchCallback callback) {
    float density;
    if (keys.length == 0) {
        density = 0;
    } else {
        density = (float)keys.length / (keys[keys.length - 1] - keys[0] + 1);
    }
}

```

```

    process_switch(keys, callback, density >= 0.5f);
}

public void process_switch(int[] keys, ProcessSwitchCallback callback, boolean useTable) {
    if (!isSorted(keys))
        throw new IllegalArgumentException("keys to switch must be sorted ascending");
    Label def = make_label();
    Label end = make_label();

    try {
        if (keys.length > 0) {
            int len = keys.length;
            int min = keys[0];
            int max = keys[len - 1];
            int range = max - min + 1;

            if (useTable) {
                Label[] labels = new Label[range];
                Arrays.fill(labels, def);
                for (int i = 0; i < len; i++) {
                    labels[keys[i] - min] = make_label();
                }
                mv.visitTableSwitchInsn(min, max, def, labels);
                for (int i = 0; i < range; i++) {
                    Label label = labels[i];
                    if (label != def) {
                        mark(label);
                        callback.processCase(i + min, end);
                    }
                }
            } else {
                Label[] labels = new Label[len];
                for (int i = 0; i < len; i++) {
                    labels[i] = make_label();
                }
                mv.visitLookupSwitchInsn(def, keys, labels);
                for (int i = 0; i < len; i++) {
                    mark(labels[i]);
                    callback.processCase(keys[i], end);
                }
            }
        }

        mark(def);
        callback.processDefault();
        mark(end);
    } catch (RuntimeException e) {

```

```

        throw e;
    } catch (Error e) {
        throw e;
    } catch (Exception e) {
        throw new CodeGenerationException(e);
    }
}

private static boolean isSorted(int[] keys) {
    for (int i = 1; i < keys.length; i++) {
        if (keys[i] < keys[i - 1])
            return false;
    }
    return true;
}

public void mark(Label label) {
    mv.visitLabel(label);
}

Label mark() {
    Label label = make_label();
    mv.visitLabel(label);
    return label;
}

public void push(boolean value) {
    push(value ? 1 : 0);
}

/**
 * Toggles the integer on the top of the stack from 1 to 0 or vice versa
 */
public void not() {
    push(1);
    math(XOR, Type.INT_TYPE);
}

public void throw_exception(Type type, String msg) {
    new_instance(type);
    dup();
    push(msg);
    invoke_constructor(type, CSTRUCT_STRING);
    athrow();
}

/**
 * If the argument is a primitive class, replaces the primitive value

```

```

* on the top of the stack with the wrapped (Object) equivalent. For
* example, char -> Character.
* If the class is Void, a null is pushed onto the stack instead.
* @param type the class indicating the current type of the top stack value
*/
public void box(Type type) {
    if (TypeUtils.isPrimitive(type)) {
        if (type == Type.VOID_TYPE) {
            aconst_null();
        } else {
            Type boxed = TypeUtils.getBoxedType(type);
            new_instance(boxed);
            if (type.getSize() == 2) {
                // Pp -> Ppo -> oPpo -> ooPpo -> ooPp -> o
                dup_x2();
                dup_x2();
                pop();
            } else {
                // p -> po -> oPo -> oop -> o
                dup_x1();
                swap();
            }
            invoke_constructor(boxed, new Signature(Constants.CONSTRUCTOR_NAME, Type.VOID_TYPE, new
Type[] { type }));
        }
    }
}

/**
* If the argument is a primitive class, replaces the object
* on the top of the stack with the unwrapped (primitive)
* equivalent. For example, Character -> char.
* @param type the class indicating the desired type of the top stack value
* @return true if the value was unboxed
*/
public void unbox(Type type) {
    Type t = Constants.TYPE_NUMBER;
    Signature sig = null;
    switch (type.getSort()) {
        case Type.VOID:
            return;
        case Type.CHAR:
            t = Constants.TYPE_CHARACTER;
            sig = CHAR_VALUE;
            break;
        case Type.BOOLEAN:
            t = Constants.TYPE_BOOLEAN;
            sig = BOOLEAN_VALUE;
    }
}

```

```

        break;
    case Type.DOUBLE:
        sig = DOUBLE_VALUE;
        break;
    case Type.FLOAT:
        sig = FLOAT_VALUE;
        break;
    case Type.LONG:
        sig = LONG_VALUE;
        break;
    case Type.INT:
    case Type.SHORT:
    case Type.BYTE:
        sig = INT_VALUE;
    }

    if (sig == null) {
        checkcast(type);
    } else {
        checkcast(t);
        invoke_virtual(t, sig);
    }
}

/**
 * Allocates and fills an Object[] array with the arguments to the
 * current method. Primitive values are inserted as their boxed
 * (Object) equivalents.
 */
public void create_arg_array() {
    /* generates:
       Object[] args = new Object[] { arg1, new Integer(arg2) };
    */

    push(state.argumentTypes.length);
    newarray();
    for (int i = 0; i < state.argumentTypes.length; i++) {
        dup();
        push(i);
        load_arg(i);
        box(state.argumentTypes[i]);
        astore();
    }
}

/**
 * Pushes a zero onto the stack if the argument is a primitive class, or a null otherwise.

```

```

*/
public void zero_or_null(Type type) {
    if (TypeUtils.isPrimitive(type)) {
        switch (type.getSort()) {
            case Type.DOUBLE:
                push(0d);
                break;
            case Type.LONG:
                push(0L);
                break;
            case Type.FLOAT:
                push(0f);
                break;
            case Type.VOID:
                aconst_null();
            default:
                push(0);
        }
    } else {
        aconst_null();
    }
}

/**
 * Unboxes the object on the top of the stack. If the object is null, the
 * unboxed primitive value becomes zero.
 */
public void unbox_or_zero(Type type) {
    if (TypeUtils.isPrimitive(type)) {
        if (type != Type.VOID_TYPE) {
            Label nonNull = make_label();
            Label end = make_label();
            dup();
            ifnonnull(nonNull);
            pop();
            zero_or_null(type);
            goTo(end);
            mark(nonNull);
            unbox(type);
            mark(end);
        }
    } else {
        checkcast(type);
    }
}

public void visitMaxs(int maxStack, int maxLocals) {
    if (!TypeUtils.isAbstract(state.access)) {

```



```

        mv.visitMaxs(0, 0);
    }
}

public void invoke(MethodInfo method, Type virtualType) {
    ClassInfo classInfo = method.getClassInfo();
    Type type = classInfo.getType();
    Signature sig = method.getSignature();
    if (sig.getName().equals(Constants.CONSTRUCTOR_NAME)) {
        invoke_constructor(type, sig);
    } else if (TypeUtils.isInterface(classInfo.getModifiers())) {
        invoke_interface(type, sig);
    } else if (TypeUtils.isStatic(method.getModifiers())) {
        invoke_static(type, sig);
    } else {
        invoke_virtual(virtualType, sig);
    }
}

public void invoke(MethodInfo method) {
    invoke(method, method.getClassInfo().getType());
}
}
/*
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 *
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 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
package net.sf.cglib.core;

import java.math.BigDecimal;
import java.math.BigInteger;
import java.util.*;
import org.objectweb.asm.Label;
import org.objectweb.asm.Type;

public class EmitUtils {
    private static final Signature CSTRUCT_NULL =

```

```

TypeUtils.parseConstructor("");
private static final Signature CSTRUCT_THROWABLE =
    TypeUtils.parseConstructor("Throwable");

private static final Signature GET_NAME =
    TypeUtils.parseSignature("String getName()");
private static final Signature HASH_CODE =
    TypeUtils.parseSignature("int hashCode()");
private static final Signature EQUALS =
    TypeUtils.parseSignature("boolean equals(Object)");
private static final Signature STRING_LENGTH =
    TypeUtils.parseSignature("int length()");
private static final Signature STRING_CHAR_AT =
    TypeUtils.parseSignature("char charAt(int)");
private static final Signature FOR_NAME =
    TypeUtils.parseSignature("Class forName(String)");
private static final Signature DOUBLE_TO_LONG_BITS =
    TypeUtils.parseSignature("long doubleToLongBits(double)");
private static final Signature FLOAT_TO_INT_BITS =
    TypeUtils.parseSignature("int floatToIntBits(float)");
private static final Signature TO_STRING =
    TypeUtils.parseSignature("String toString()");
private static final Signature APPEND_STRING =
    TypeUtils.parseSignature("StringBuffer append(String)");
private static final Signature APPEND_INT =
    TypeUtils.parseSignature("StringBuffer append(int)");
private static final Signature APPEND_DOUBLE =
    TypeUtils.parseSignature("StringBuffer append(double)");
private static final Signature APPEND_FLOAT =
    TypeUtils.parseSignature("StringBuffer append(float)");
private static final Signature APPEND_CHAR =
    TypeUtils.parseSignature("StringBuffer append(char)");
private static final Signature APPEND_LONG =
    TypeUtils.parseSignature("StringBuffer append(long)");
private static final Signature APPEND_BOOLEAN =
    TypeUtils.parseSignature("StringBuffer append(boolean)");
private static final Signature LENGTH =
    TypeUtils.parseSignature("int length()");
private static final Signature SET_LENGTH =
    TypeUtils.parseSignature("void setLength(int)");
private static final Signature GET_DECLARED_METHOD =
    TypeUtils.parseSignature("java.lang.reflect.Method getDeclaredMethod(String, Class[])");

public static final ArrayDelimiters DEFAULT_DELIMITERS = new ArrayDelimiters("{", " ", " "});

private EmitUtils() {

```

```

}

public static void factory_method(ClassEmitter ce, Signature sig) {
    CodeEmitter e = ce.begin_method(Constants.ACC_PUBLIC, sig, null);
    e.new_instance_this();
    e.dup();
    e.load_args();
    e.invoke_constructor_this(TypeUtils.parseConstructor(sig.getArgumentTypes()));
    e.return_value();
    e.end_method();
}

public static void null_constructor(ClassEmitter ce) {
    CodeEmitter e = ce.begin_method(Constants.ACC_PUBLIC, CSTRUCT_NULL, null);
    e.load_this();
    e.super_invoke_constructor();
    e.return_value();
    e.end_method();
}

/**
 * Process an array on the stack. Assumes the top item on the stack
 * is an array of the specified type. For each element in the array,
 * puts the element on the stack and triggers the callback.
 * @param type the type of the array (type.isArray() must be true)
 * @param callback the callback triggered for each element
 */
public static void process_array(CodeEmitter e, Type type, ProcessArrayCallback callback) {
    Type componentType = TypeUtils.getComponentType(type);
    Local array = e.make_local();
    Local loopvar = e.make_local(Type.INT_TYPE);
    Label loopbody = e.make_label();
    Label checkloop = e.make_label();
    e.store_local(array);
    e.push(0);
    e.store_local(loopvar);
    e.goTo(checkloop);

    e.mark(loopbody);
    e.load_local(array);
    e.load_local(loopvar);
    e.array_load(componentType);
    callback.processElement(componentType);
    e.iinc(loopvar, 1);

    e.mark(checkloop);
    e.load_local(loopvar);
    e.load_local(array);

```

```

    e.arraylength();
    e.if_icmp(e.LT, loopbody);
}

/**
 * Process two arrays on the stack in parallel. Assumes the top two items on the stack
 * are arrays of the specified class. The arrays must be the same length. For each pair
 * of elements in the arrays, puts the pair on the stack and triggers the callback.
 * @param type the type of the arrays (type.isArray() must be true)
 * @param callback the callback triggered for each pair of elements
 */
public static void process_arrays(CodeEmitter e, Type type, ProcessArrayCallback callback) {
    Type componentType = TypeUtils.getComponentType(type);
    Local array1 = e.make_local();
    Local array2 = e.make_local();
    Local loopvar = e.make_local(Type.INT_TYPE);
    Label loopbody = e.make_label();
    Label checkloop = e.make_label();
    e.store_local(array1);
    e.store_local(array2);
    e.push(0);
    e.store_local(loopvar);
    e.goTo(checkloop);

    e.mark(loopbody);
    e.load_local(array1);
    e.load_local(loopvar);
    e.array_load(componentType);
    e.load_local(array2);
    e.load_local(loopvar);
    e.array_load(componentType);
    callback.processElement(componentType);
    e.iinc(loopvar, 1);

    e.mark(checkloop);
    e.load_local(loopvar);
    e.load_local(array1);
    e.arraylength();
    e.if_icmp(e.LT, loopbody);
}

public static void string_switch(CodeEmitter e, String[] strings, int switchStyle, ObjectSwitchCallback callback) {
    try {
        switch (switchStyle) {
            case Constants.SWITCH_STYLE_TRIE:
                string_switch_trie(e, strings, callback);
                break;
            case Constants.SWITCH_STYLE_HASH:

```

```

        string_switch_hash(e, strings, callback, false);
        break;
    case Constants.SWITCH_STYLE_HASHONLY:
        string_switch_hash(e, strings, callback, true);
        break;
    default:
        throw new IllegalArgumentException("unknown switch style " + switchStyle);
    }
} catch (RuntimeException ex) {
    throw ex;
} catch (Error ex) {
    throw ex;
} catch (Exception ex) {
    throw new CodeGenerationException(ex);
}
}

private static void string_switch_trie(final CodeEmitter e,
        String[] strings,
        final ObjectSwitchCallback callback) throws Exception {
    final Label def = e.make_label();
    final Label end = e.make_label();
    final Map buckets = CollectionUtils.bucket(Arrays.asList(strings), new Transformer() {
        public Object transform(Object value) {
            return new Integer(((String)value).length());
        }
    });
    e.dup();
    e.invoke_virtual(Constants.TYPE_STRING, STRING_LENGTH);
    e.process_switch(getSwitchKeys(buckets), new ProcessSwitchCallback() {
        public void processCase(int key, Label ignore_end) throws Exception {
            List bucket = (List)buckets.get(new Integer(key));
            stringSwitchHelper(e, bucket, callback, def, end, 0);
        }
        public void processDefault() {
            e.goTo(def);
        }
    });
    e.mark(def);
    e.pop();
    callback.processDefault();
    e.mark(end);
}

private static void stringSwitchHelper(final CodeEmitter e,
        List strings,
        final ObjectSwitchCallback callback,
        final Label def,

```

```

        final Label end,
        final int index) throws Exception {
final int len = ((String)strings.get(0)).length();
final Map buckets = CollectionUtils.bucket(strings, new Transformer() {
    public Object transform(Object value) {
        return new Integer(((String)value).charAt(index));
    }
});
e.dup();
e.push(index);
e.invoke_virtual(Constants.TYPE_STRING, STRING_CHAR_AT);
e.process_switch(getSwitchKeys(buckets), new ProcessSwitchCallback() {
    public void processCase(int key, Label ignore_end) throws Exception {
        List bucket = (List)buckets.get(new Integer(key));
        if (index + 1 == len) {
            e.pop();
            callback.processCase(bucket.get(0), end);
        } else {
            stringSwitchHelper(e, bucket, callback, def, end, index + 1);
        }
    }
    public void processDefault() {
        e.goTo(def);
    }
});
}

static int[] getSwitchKeys(Map buckets) {
    int[] keys = new int[buckets.size()];
    int index = 0;
    for (Iterator it = buckets.keySet().iterator(); it.hasNext();) {
        keys[index++] = ((Integer)it.next()).intValue();
    }
    Arrays.sort(keys);
    return keys;
}

private static void string_switch_hash(final CodeEmitter e,
        final String[] strings,
        final ObjectSwitchCallback callback,
        final boolean skipEquals) throws Exception {
final Map buckets = CollectionUtils.bucket(Arrays.asList(strings), new Transformer() {
    public Object transform(Object value) {
        return new Integer(value.hashCode());
    }
});
final Label def = e.make_label();
final Label end = e.make_label();

```

```

e.dup();
e.invoke_virtual(Constants.TYPE_OBJECT, HASH_CODE);
e.process_switch(getSwitchKeys(buckets), new ProcessSwitchCallback() {
    public void processCase(int key, Label ignore_end) throws Exception {
        List bucket = (List)buckets.get(new Integer(key));
        Label next = null;
        if (skipEquals && bucket.size() == 1) {
            if (skipEquals)
                e.pop();
            callback.processCase((String)bucket.get(0), end);
        } else {
            for (Iterator it = bucket.iterator(); it.hasNext(); ) {
                String string = (String)it.next();
                if (next != null) {
                    e.mark(next);
                }
                if (it.hasNext()) {
                    e.dup();
                }
                e.push(string);
                e.invoke_virtual(Constants.TYPE_OBJECT, EQUALS);
                if (it.hasNext()) {
                    e.if_jump(e.EQ, next = e.make_label());
                    e.pop();
                } else {
                    e.if_jump(e.EQ, def);
                }
                callback.processCase(string, end);
            }
        }
    }
    public void processDefault() {
        e.pop();
    }
});
e.mark(def);
callback.processDefault();
e.mark(end);
}

public static void load_class_this(CodeEmitter e) {
    load_class_helper(e, e.getClassEmitter().getClassType());
}

public static void load_class(CodeEmitter e, Type type) {
    if (TypeUtils.isPrimitive(type)) {
        if (type == Type.VOID_TYPE) {
            throw new IllegalArgumentException("cannot load void type");
        }
    }
}

```

```

    }
    e.getstatic(TypeUtils.getBoxedType(type), "TYPE", Constants.TYPE_CLASS);
} else {
    load_class_helper(e, type);
}
}

private static void load_class_helper(CodeEmitter e, final Type type) {
    if (e.isStaticHook()) {
        // have to fall back on non-optimized load
        e.push(TypeUtils.emulateClassGetName(type));
        e.invoke_static(Constants.TYPE_CLASS, FOR_NAME);
    } else {
        ClassEmitter ce = e.getClassEmitter();
        String typeName = TypeUtils.emulateClassGetName(type);

        // TODO: can end up with duplicated field names when using chained transformers; incorporate static hook #
        somehow
        String fieldName = "CGLIB$load_class$" + TypeUtils.escapeType(typeName);
        if (!ce.isFieldDeclared(fieldName)) {
            ce.declare_field(Constants.PRIVATE_FINAL_STATIC, fieldName, Constants.TYPE_CLASS, null);
            CodeEmitter hook = ce.getStaticHook();
            hook.push(typeName);
            hook.invoke_static(Constants.TYPE_CLASS, FOR_NAME);
            hook.putstatic(ce.getClassType(), fieldName, Constants.TYPE_CLASS);
        }
        e.getfield(fieldName);
    }
}

public static void push_array(CodeEmitter e, Object[] array) {
    e.push(array.length);
    e.newarray(Type.getType(remapComponentType(array.getClass().getComponentType())));
    for (int i = 0; i < array.length; i++) {
        e.dup();
        e.push(i);
        push_object(e, array[i]);
        e.aastore();
    }
}

private static Class remapComponentType(Class componentType) {
    if (componentType.equals(Type.class))
        return Class.class;
    return componentType;
}

public static void push_object(CodeEmitter e, Object obj) {

```



```

if (obj == null) {
    e.aconst_null();
} else {
    Class type = obj.getClass();
    if (type.isArray()) {
        push_array(e, (Object[])obj);
    } else if (obj instanceof String) {
        e.push((String)obj);
    } else if (obj instanceof Type) {
        load_class(e, (Type)obj);
    } else if (obj instanceof Class) {
        load_class(e, Type.getType((Class)obj));
    } else if (obj instanceof BigInteger) {
        e.new_instance(Constants.TYPE_BIG_INTEGER);
        e.dup();
        e.push(obj.toString());
        e.invoke_constructor(Constants.TYPE_BIG_INTEGER);
    } else if (obj instanceof BigDecimal) {
        e.new_instance(Constants.TYPE_BIG_DECIMAL);
        e.dup();
        e.push(obj.toString());
        e.invoke_constructor(Constants.TYPE_BIG_DECIMAL);
    } else {
        throw new IllegalArgumentException("unknown type: " + obj.getClass());
    }
}
}

public static void hash_code(CodeEmitter e, Type type, int multiplier, Customizer customizer) {
    if (TypeUtils.isArray(type)) {
        hash_array(e, type, multiplier, customizer);
    } else {
        e.swap(Type.INT_TYPE, type);
        e.push(multiplier);
        e.math(e.MUL, Type.INT_TYPE);
        e.swap(type, Type.INT_TYPE);
        if (TypeUtils.isPrimitive(type)) {
            hash_primitive(e, type);
        } else {
            hash_object(e, type, customizer);
        }
        e.math(e.ADD, Type.INT_TYPE);
    }
}

private static void hash_array(final CodeEmitter e, Type type, final int multiplier, final Customizer customizer) {
    Label skip = e.make_label();
    Label end = e.make_label();

```

```

e.dup();
e.ifnull(skip);
EmitUtils.process_array(e, type, new ProcessArrayCallback() {
    public void processElement(Type type) {
        hash_code(e, type, multiplier, customizer);
    }
});
e.goTo(end);
e.mark(skip);
e.pop();
e.mark(end);
}

private static void hash_object(CodeEmitter e, Type type, Customizer customizer) {
    // (f == null) ? 0 : f.hashCode();
    Label skip = e.make_label();
    Label end = e.make_label();
    e.dup();
    e.ifnull(skip);
    if (customizer != null) {
        customizer.customize(e, type);
    }
    e.invoke_virtual(Constants.TYPE_OBJECT, HASH_CODE);
    e.goTo(end);
    e.mark(skip);
    e.pop();
    e.push(0);
    e.mark(end);
}

private static void hash_primitive(CodeEmitter e, Type type) {
    switch (type.getSort()) {
    case Type.BOOLEAN:
        // f ? 0 : 1
        e.push(1);
        e.math(e.XOR, Type.INT_TYPE);
        break;
    case Type.FLOAT:
        // Float.floatToIntBits(f)
        e.invoke_static(Constants.TYPE_FLOAT, FLOAT_TO_INT_BITS);
        break;
    case Type.DOUBLE:
        // Double.doubleToLongBits(f), hash_code(Long.TYPE)
        e.invoke_static(Constants.TYPE_DOUBLE, DOUBLE_TO_LONG_BITS);
        // fall through
    case Type.LONG:
        hash_long(e);
    }
}

```

```

}

private static void hash_long(CodeEmitter e) {
    // (int)(f ^ (f >>> 32))
    e.dup2();
    e.push(32);
    e.math(e.USHR, Type.LONG_TYPE);
    e.math(e.XOR, Type.LONG_TYPE);
    e.cast_numeric(Type.LONG_TYPE, Type.INT_TYPE);
}

// public static void not_equals(CodeEmitter e, Type type, Label notEquals) {
//     not_equals(e, type, notEquals, null);
// }

/**
 * Branches to the specified label if the top two items on the stack
 * are not equal. The items must both be of the specified
 * class. Equality is determined by comparing primitive values
 * directly and by invoking the <code>equals</code> method for
 * Objects. Arrays are recursively processed in the same manner.
 */
public static void not_equals(final CodeEmitter e, Type type, final Label notEquals, final Customizer customizer)
{
    (new ProcessArrayCallback() {
        public void processElement(Type type) {
            not_equals_helper(e, type, notEquals, customizer, this);
        }
    }).processElement(type);
}

private static void not_equals_helper(CodeEmitter e,
                                     Type type,
                                     Label notEquals,
                                     Customizer customizer,
                                     ProcessArrayCallback callback) {
    if (TypeUtils.isPrimitive(type)) {
        e.if_cmp(type, e.NE, notEquals);
    } else {
        Label end = e.make_label();
        nullcmp(e, notEquals, end);
        if (TypeUtils.isArray(type)) {
            Label checkContents = e.make_label();
            e.dup2();
            e.arraylength();
            e.swap();
            e.arraylength();
            e.if_icmp(e.EQ, checkContents);
        }
    }
}

```

```

        e.pop2();
        e.goTo(notEquals);
        e.mark(checkContents);
        EmitUtils.process_arrays(e, type, callback);
    } else {
        if (customizer != null) {
            customizer.customize(e, type);
            e.swap();
            customizer.customize(e, type);
        }
        e.invoke_virtual(Constants.TYPE_OBJECT, EQUALS);
        e.if_jump(e.EQ, notEquals);
    }
    e.mark(end);
}
}

/**
 * If both objects on the top of the stack are non-null, does nothing.
 * If one is null, or both are null, both are popped off and execution
 * branches to the respective label.
 * @param oneNull label to branch to if only one of the objects is null
 * @param bothNull label to branch to if both of the objects are null
 */
private static void nullcmp(CodeEmitter e, Label oneNull, Label bothNull) {
    e.dup2();
    Label nonNull = e.make_label();
    Label oneNullHelper = e.make_label();
    Label end = e.make_label();
    e.ifnonnull(nonNull);
    e.ifnonnull(oneNullHelper);
    e.pop2();
    e.goTo(bothNull);

    e.mark(nonNull);
    e.ifnull(oneNullHelper);
    e.goTo(end);

    e.mark(oneNullHelper);
    e.pop2();
    e.goTo(oneNull);

    e.mark(end);
}

/**
public static void to_string(CodeEmitter e,
    Type type,

```

```

        ArrayDelimiters delims,
        Customizer customizer) {
    e.new_instance(Constants.TYPE_STRING_BUFFER);
    e.dup();
    e.invoke_constructor(Constants.TYPE_STRING_BUFFER);
    e.swap();
    append_string(e, type, delims, customizer);
    e.invoke_virtual(Constants.TYPE_STRING_BUFFER, TO_STRING);
}
*/

public static void append_string(final CodeEmitter e,
                                Type type,
                                final ArrayDelimiters delims,
                                final Customizer customizer) {
    final ArrayDelimiters d = (delims != null) ? delims : DEFAULT_DELIMITERS;
    ProcessArrayCallback callback = new ProcessArrayCallback() {
        public void processElement(Type type) {
            append_string_helper(e, type, d, customizer, this);
            e.push(d.inside);
            e.invoke_virtual(Constants.TYPE_STRING_BUFFER, APPEND_STRING);
        }
    };
    append_string_helper(e, type, d, customizer, callback);
}

private static void append_string_helper(CodeEmitter e,
                                         Type type,
                                         ArrayDelimiters delims,
                                         Customizer customizer,
                                         ProcessArrayCallback callback) {
    Label skip = e.make_label();
    Label end = e.make_label();
    if (TypeUtils.isPrimitive(type)) {
        switch (type.getSort()) {
            case Type.INT:
            case Type.SHORT:
            case Type.BYTE:
                e.invoke_virtual(Constants.TYPE_STRING_BUFFER, APPEND_INT);
                break;
            case Type.DOUBLE:
                e.invoke_virtual(Constants.TYPE_STRING_BUFFER, APPEND_DOUBLE);
                break;
            case Type.FLOAT:
                e.invoke_virtual(Constants.TYPE_STRING_BUFFER, APPEND_FLOAT);
                break;
            case Type.LONG:
                e.invoke_virtual(Constants.TYPE_STRING_BUFFER, APPEND_LONG);

```

```

        break;
    case Type.BOOLEAN:
        e.invoke_virtual(Constants.TYPE_STRING_BUFFER, APPEND_BOOLEAN);
        break;
    case Type.CHAR:
        e.invoke_virtual(Constants.TYPE_STRING_BUFFER, APPEND_CHAR);
        break;
    }
} else if (TypeUtils.isArray(type)) {
    e.dup();
    e.ifnull(skip);
    e.swap();
    if (delims != null && delims.before != null && !"".equals(delims.before)) {
        e.push(delims.before);
        e.invoke_virtual(Constants.TYPE_STRING_BUFFER, APPEND_STRING);
        e.swap();
    }
    EmitUtils.process_array(e, type, callback);
    shrinkStringBuffer(e, 2);
    if (delims != null && delims.after != null && !"".equals(delims.after)) {
        e.push(delims.after);
        e.invoke_virtual(Constants.TYPE_STRING_BUFFER, APPEND_STRING);
    }
} else {
    e.dup();
    e.ifnull(skip);
    if (customizer != null) {
        customizer.customize(e, type);
    }
    e.invoke_virtual(Constants.TYPE_OBJECT, TO_STRING);
    e.invoke_virtual(Constants.TYPE_STRING_BUFFER, APPEND_STRING);
}
e.goTo(end);
e.mark(skip);
e.pop();
e.push("null");
e.invoke_virtual(Constants.TYPE_STRING_BUFFER, APPEND_STRING);
e.mark(end);
}

private static void shrinkStringBuffer(CodeEmitter e, int amt) {
    e.dup();
    e.dup();
    e.invoke_virtual(Constants.TYPE_STRING_BUFFER, LENGTH);
    e.push(amt);
    e.math(e.SUB, Type.INT_TYPE);
    e.invoke_virtual(Constants.TYPE_STRING_BUFFER, SET_LENGTH);
}

```

```

public static class ArrayDelimiters {
    private String before;
    private String inside;
    private String after;

    public ArrayDelimiters(String before, String inside, String after) {
        this.before = before;
        this.inside = inside;
        this.after = after;
    }
}

public static void load_method(CodeEmitter e, MethodInfo method) {
    load_class(e, method.getClassInfo().getType());
    e.push(method.getSignature().getName());
    push_object(e, method.getSignature().getArgumentTypes());
    e.invoke_virtual(Constants.TYPE_CLASS, GET_DECLARED_METHOD);
}

private interface ParameterTyper {
    Type[] getParameterTypes(MethodInfo member);
}

public static void method_switch(CodeEmitter e,
                                List methods,
                                ObjectSwitchCallback callback) {
    member_switch_helper(e, methods, callback, true);
}

public static void constructor_switch(CodeEmitter e,
                                     List constructors,
                                     ObjectSwitchCallback callback) {
    member_switch_helper(e, constructors, callback, false);
}

private static void member_switch_helper(final CodeEmitter e,
                                        List members,
                                        final ObjectSwitchCallback callback,
                                        boolean useName) {
    try {
        final Map cache = new HashMap();
        final ParameterTyper cached = new ParameterTyper() {
            public Type[] getParameterTypes(MethodInfo member) {
                Type[] types = (Type[])cache.get(member);
                if (types == null) {
                    cache.put(member, types = member.getSignature().getArgumentTypes());
                }
            }
        };
    }
}

```

```

        return types;
    }
};
final Label def = e.make_label();
final Label end = e.make_label();
if (useName) {
    e.swap();
    final Map buckets = CollectionUtils.bucket(members, new Transformer() {
        public Object transform(Object value) {
            return ((MethodInfo)value).getSignature().getName();
        }
    });
    String[] names = (String[])buckets.keySet().toArray(new String[buckets.size()]);
    EmitUtils.string_switch(e, names, Constants.SWITCH_STYLE_HASH, new ObjectSwitchCallback() {
        public void processCase(Object key, Label dontUseEnd) throws Exception {
            member_helper_size(e, (List)buckets.get(key), callback, cached, def, end);
        }
        public void processDefault() throws Exception {
            e.goTo(def);
        }
    });
} else {
    member_helper_size(e, members, callback, cached, def, end);
}
e.mark(def);
e.pop();
callback.processDefault();
e.mark(end);
} catch (RuntimeException ex) {
    throw ex;
} catch (Error ex) {
    throw ex;
} catch (Exception ex) {
    throw new CodeGenerationException(ex);
}
}

```

```

private static void member_helper_size(final CodeEmitter e,
        List members,
        final ObjectSwitchCallback callback,
        final ParameterTyper typer,
        final Label def,
        final Label end) throws Exception {
    final Map buckets = CollectionUtils.bucket(members, new Transformer() {
        public Object transform(Object value) {
            return new Integer(typer.getParameterTypes((MethodInfo)value).length);
        }
    });
};

```



```

e.dup();
e.arraylength();
e.process_switch(EmitUtils.getSwitchKeys(buckets), new ProcessSwitchCallback() {
    public void processCase(int key, Label dontUseEnd) throws Exception {
        List bucket = (List)buckets.get(new Integer(key));
        member_helper_type(e, bucket, callback, typer, def, end, new BitSet());
    }
    public void processDefault() throws Exception {
        e.goTo(def);
    }
});
}

private static void member_helper_type(final CodeEmitter e,
    List members,
    final ObjectSwitchCallback callback,
    final ParameterTyper typer,
    final Label def,
    final Label end,
    final BitSet checked) throws Exception {
    if (members.size() == 1) {
        MethodInfo member = (MethodInfo)members.get(0);
        Type[] types = typer.getParameterTypes(member);
        // need to check classes that have not already been checked via switches
        for (int i = 0; i < types.length; i++) {
            if (checked == null || !checked.get(i)) {
                e.dup();
                e.aaload(i);
                e.invoke_virtual(Constants.TYPE_CLASS, GET_NAME);
                e.push(TypeUtils.emulateClassGetName(types[i]));
                e.invoke_virtual(Constants.TYPE_OBJECT, EQUALS);
                e.if_jump(e.EQ, def);
            }
        }
        e.pop();
        callback.processCase(member, end);
    } else {
        // choose the index that has the best chance of uniquely identifying member
        Type[] example = typer.getParameterTypes((MethodInfo)members.get(0));
        Map buckets = null;
        int index = -1;
        for (int i = 0; i < example.length; i++) {
            final int j = i;
            Map test = CollectionUtils.bucket(members, new Transformer() {
                public Object transform(Object value) {
                    return TypeUtils.emulateClassGetName(typer.getParameterTypes((MethodInfo)value)[j]);
                }
            });
        }
    }
}

```

```

        if (buckets == null || test.size() > buckets.size()) {
            buckets = test;
            index = i;
        }
    }
    if (buckets == null || buckets.size() == 1) {
        // TODO: switch by returnType
        // must have two methods with same name, types, and different return types
        e.goTo(def);
    } else {
        checked.set(index);

        e.dup();
        e.aaload(index);
        e.invoke_virtual(Constants.TYPE_CLASS, GET_NAME);

        final Map fbuckets = buckets;
        String[] names = (String[])buckets.keySet().toArray(new String[buckets.size()]);
        EmitUtils.string_switch(e, names, Constants.SWITCH_STYLE_HASH, new ObjectSwitchCallback() {
            public void processCase(Object key, Label dontUseEnd) throws Exception {
                member_helper_type(e, (List)fbuckets.get(key), callback, typer, def, end, checked);
            }
            public void processDefault() throws Exception {
                e.goTo(def);
            }
        });
    }
}

public static void wrap_throwable(Block block, Type wrapper) {
    CodeEmitter e = block.getCodeEmitter();
    e.catch_exception(block, Constants.TYPE_THROWABLE);
    e.new_instance(wrapper);
    e.dup_x1();
    e.swap();
    e.invoke_constructor(wrapper, CSTRUCT_THROWABLE);
    e.athrow();
}

public static void add_properties(ClassEmitter ce, String[] names, Type[] types) {
    for (int i = 0; i < names.length; i++) {
        String fieldName = "$cglib_prop_" + names[i];
        ce.declare_field(Constants.ACC_PRIVATE, fieldName, types[i], null);
        EmitUtils.add_property(ce, names[i], types[i], fieldName);
    }
}

```

```

public static void add_property(ClassEmitter ce, String name, Type type, String fieldName) {
    String property = TypeUtils.upperFirst(name);
    CodeEmitter e;
    e = ce.begin_method(Constants.ACC_PUBLIC,
        new Signature("get" + property,
            type,
            Constants.TYPES_EMPTY),
        null);
    e.load_this();
    e.getfield(fieldName);
    e.return_value();
    e.end_method();

    e = ce.begin_method(Constants.ACC_PUBLIC,
        new Signature("set" + property,
            Type.VOID_TYPE,
            new Type[]{ type }),
        null);
    e.load_this();
    e.load_arg(0);
    e.putfield(fieldName);
    e.return_value();
    e.end_method();
}

/* generates:
} catch (RuntimeException e) {
    throw e;
} catch (Error e) {
    throw e;
} catch (<DeclaredException> e) {
    throw e;
} catch (Throwable e) {
    throw new <Wrapper>(e);
}
*/

public static void wrap_undeclared_throwable(CodeEmitter e, Block handler, Type[] exceptions, Type wrapper) {
    Set set = (exceptions == null) ? Collections.EMPTY_SET : new HashSet(Arrays.asList(exceptions));

    if (set.contains(Constants.TYPE_THROWABLE))
        return;

    boolean needThrow = exceptions != null;
    if (!set.contains(Constants.TYPE_RUNTIME_EXCEPTION)) {
        e.catch_exception(handler, Constants.TYPE_RUNTIME_EXCEPTION);
        needThrow = true;
    }
    if (!set.contains(Constants.TYPE_ERROR)) {

```

```

        e.catch_exception(handler, Constants.TYPE_ERROR);
        needThrow = true;
    }
    if (exceptions != null) {
        for (int i = 0; i < exceptions.length; i++) {
            e.catch_exception(handler, exceptions[i]);
        }
    }
    if (needThrow) {
        e.athrow();
    }
    // e -> eo -> oeo -> ooe -> o
    e.catch_exception(handler, Constants.TYPE_THROWABLE);
    e.new_instance(wrapper);
    e.dup_x1();
    e.swap();
    e.invoke_constructor(wrapper, CSTRUCT_THROWABLE);
    e.athrow();
}

public static CodeEmitter begin_method(ClassEmitter e, MethodInfo method) {
    return begin_method(e, method, method.getModifiers());
}

public static CodeEmitter begin_method(ClassEmitter e, MethodInfo method, int access) {
    return e.begin_method(access,
        method.getSignature(),
        method.getExceptionTypes());
}
}
/*
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 */
package net.sf.cglib.core;

import java.lang.reflect.Method;

```

```

import java.util.*;

public class DuplicatesPredicate implements Predicate {
    private Set unique = new HashSet();

    public boolean evaluate(Object arg) {
        return unique.add(MethodWrapper.create((Method)arg));
    }
}
/*
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 */
package net.sf.cglib.core;

import java.util.Set;

/**
 * The default policy used by {@link AbstractClassGenerator}.
 * Generates names such as
 * net.sf.cglib.Foo$$EnhancerByCGLIB$$38272841
 * This is composed of a prefix based on the name of the superclass, a fixed
 * string incorporating the CGLIB class responsible for generation, and a
 * hashcode derived from the parameters used to create the object. If the same
 * name has been previously been used in the same ClassLoader, a
 * suffix is added to ensure uniqueness.
 */
public class DefaultNamingPolicy implements NamingPolicy {
    public static final DefaultNamingPolicy INSTANCE = new DefaultNamingPolicy();

    public String getClassName(String prefix, String source, Object key, Predicate names) {
        if (prefix == null) {
            prefix = "net.sf.cglib.empty.Object";
        } else if (prefix.startsWith("java")) {
            prefix = "$" + prefix;
        }
        String base =

```

```

        prefix + "$$" +
        source.substring(source.lastIndexOf('.') + 1) +
        getTag() + "$$" +
        Integer.toHexString(key.hashCode());
String attempt = base;
int index = 2;
while (names.evaluate(attempt))
    attempt = base + "_" + index++;
return attempt;
}

/**
 * Returns a string which is incorporated into every generated class name.
 * By default returns "ByCGLIB"
 */
protected String getTag() {
    return "ByCGLIB";
}
}
/*
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 */
package net.sf.cglib.util;

import java.util.*;

abstract class SorterTemplate {
    private static final int MERGESORT_THRESHOLD = 12;
    private static final int QUICKSORT_THRESHOLD = 7;

    abstract protected void swap(int i, int j);
    abstract protected int compare(int i, int j);

    protected void quickSort(int lo, int hi) {
        quickSortHelper(lo, hi);
        insertionSort(lo, hi);
    }
}

```

```

}

private void quickSortHelper(int lo, int hi) {
    for (;;) {
        int diff = hi - lo;
        if (diff <= QUICKSORT_THRESHOLD) {
            break;
        }
        int i = (hi + lo) / 2;
        if (compare(lo, i) > 0) {
            swap(lo, i);
        }
        if (compare(lo, hi) > 0) {
            swap(lo, hi);
        }
        if (compare(i, hi) > 0) {
            swap(i, hi);
        }
        int j = hi - 1;
        swap(i, j);
        i = lo;
        int v = j;
        for (;;) {
            while (compare(++i, v) < 0) {
                /* nothing */;
            }
            while (compare(--j, v) > 0) {
                /* nothing */;
            }
            if (j < i) {
                break;
            }
            swap(i, j);
        }
        swap(i, hi - 1);
        if (j - lo <= hi - i + 1) {
            quickSortHelper(lo, j);
            lo = i + 1;
        } else {
            quickSortHelper(i + 1, hi);
            hi = j;
        }
    }
}

```

```

private void insertionSort(int lo, int hi) {
    for (int i = lo + 1 ; i <= hi; i++) {
        for (int j = i; j > lo; j--) {

```

```

        if (compare(j - 1, j) > 0) {
            swap(j - 1, j);
        } else {
            break;
        }
    }
}

protected void mergeSort(int lo, int hi) {
    int diff = hi - lo;
    if (diff <= MERGESORT_THRESHOLD) {
        insertionSort(lo, hi);
        return;
    }
    int mid = lo + diff / 2;
    mergeSort(lo, mid);
    mergeSort(mid, hi);
    merge(lo, mid, hi, mid - lo, hi - mid);
}

private void merge(int lo, int pivot, int hi, int len1, int len2) {
    if (len1 == 0 || len2 == 0) {
        return;
    }
    if (len1 + len2 == 2) {
        if (compare(pivot, lo) < 0) {
            swap(pivot, lo);
        }
        return;
    }
    int first_cut, second_cut;
    int len11, len22;
    if (len1 > len2) {
        len11 = len1 / 2;
        first_cut = lo + len11;
        second_cut = lower(pivot, hi, first_cut);
        len22 = second_cut - pivot;
    } else {
        len22 = len2 / 2;
        second_cut = pivot + len22;
        first_cut = upper(lo, pivot, second_cut);
        len11 = first_cut - lo;
    }
    rotate(first_cut, pivot, second_cut);
    int new_mid = first_cut + len22;
    merge(lo, first_cut, new_mid, len11, len22);
    merge(new_mid, second_cut, hi, len1 - len11, len2 - len22);
}

```



```

}

private void rotate(int lo, int mid, int hi) {
    int lot = lo;
    int hit = mid - 1;
    while (lot < hit) {
        swap(lot++, hit--);
    }
    lot = mid; hit = hi - 1;
    while (lot < hit) {
        swap(lot++, hit--);
    }
    lot = lo; hit = hi - 1;
    while (lot < hit) {
        swap(lot++, hit--);
    }
}

```

```

private int lower(int lo, int hi, int val) {
    int len = hi - lo;
    while (len > 0) {
        int half = len / 2;
        int mid = lo + half;
        if (compare(mid, val) < 0) {
            lo = mid + 1;
            len = len - half - 1;
        } else {
            len = half;
        }
    }
    return lo;
}

```

```

private int upper(int lo, int hi, int val) {
    int len = hi - lo;
    while (len > 0) {
        int half = len / 2;
        int mid = lo + half;
        if (compare(val, mid) < 0) {
            len = half;
        } else {
            lo = mid + 1;
            len = len - half - 1;
        }
    }
    return lo;
}
}

```

```

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 */
package net.sf.cglib.util;

import java.lang.reflect.Method;
import java.lang.reflect.Modifier;
import net.sf.cglib.core.*;
import org.objectweb.asm.ClassVisitor;
import org.objectweb.asm.Type;

class ParallelSorterEmitter extends ClassEmitter {
    private static final Type PARALLEL_SORTER =
        TypeUtils.parseType("net.sf.cglib.util.ParallelSorter");
    private static final Signature CSTRUCT_OBJECT_ARRAY =
        TypeUtils.parseConstructor("Object[]");
    private static final Signature NEW_INSTANCE =
        new Signature("newInstance", PARALLEL_SORTER, new Type[]{ Constants.TYPE_OBJECT_ARRAY });
    private static final Signature SWAP =
        TypeUtils.parseSignature("void swap(int, int)");

    public ParallelSorterEmitter(ClassVisitor v, String className, Object[] arrays) {
        super(v);
        begin_class(Constants.V1_2, Constants.ACC_PUBLIC, className, PARALLEL_SORTER, null,
Constants.SOURCE_FILE);
        EmitUtils.null_constructor(this);
        EmitUtils.factory_method(this, NEW_INSTANCE);
        generateConstructor(arrays);
        generateSwap(arrays);
        end_class();
    }

    private String getFieldname(int index) {
        return "FIELD_" + index;
    }
}

```

```

private void generateConstructor(Object[] arrays) {
    CodeEmitter e = begin_method(Constants.ACC_PUBLIC, CSTRUCT_OBJECT_ARRAY, null);
    e.load_this();
    e.super_invoke_constructor();
    e.load_this();
    e.load_arg(0);
    e.super_putfield("a", Constants.TYPE_OBJECT_ARRAY);
    for (int i = 0; i < arrays.length; i++) {
        Type type = Type.getType(arrays[i].getClass());
        declare_field(Constants.ACC_PRIVATE, getField(i), type, null);
        e.load_this();
        e.load_arg(0);
        e.push(i);
        e.aaload();
        e.checkcast(type);
        e.putfield(getField(i));
    }
    e.return_value();
    e.end_method();
}

```

```

private void generateSwap(final Object[] arrays) {
    CodeEmitter e = begin_method(Constants.ACC_PUBLIC, SWAP, null);
    for (int i = 0; i < arrays.length; i++) {
        Type type = Type.getType(arrays[i].getClass());
        Type component = TypeUtils.getComponentType(type);
        Local T = e.make_local(type);

        e.load_this();
        e.getfield(getField(i));
        e.store_local(T);

        e.load_local(T);
        e.load_arg(0);

        e.load_local(T);
        e.load_arg(1);
        e.array_load(component);

        e.load_local(T);
        e.load_arg(1);

        e.load_local(T);
        e.load_arg(0);
        e.array_load(component);

        e.array_store(component);
        e.array_store(component);
    }
}

```

```

    }
    e.return_value();
    e.end_method();
  }
}

```

1.5 commons-fileupload 1.4

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```

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1.6 commons-io 2.6

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<body>
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</p>
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</div>
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<div class=Section1>
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*****/

package org.eclipse.persistence.descriptors.copyping;

import java.io.*;

import org.eclipse.persistence.exceptions.*;

import org.eclipse.persistence.descriptors.ClassDescriptor;

import org.eclipse.persistence.queries.ObjectBuildingQuery;

import org.eclipse.persistence.sessions.*;

/**

* <p>Purpose</p>: Allows customization of how an object is cloned.

* An implementer of CopyPolicy can be set on a descriptor to provide

* special cloning routine for how an object is cloned in a unit of work.

*

* By default the InstantiationCopyPolicy is used which creates a new instance of

* the class to be copied into.

*

* The CloneCopyPolicy can also be used that uses a clone method in the object


```

* to clone the object. When a clone method is used it avoid the requirement of having to
* copy over each of the direct attributes.
*
* @see org.eclipse.persistence.descriptors.copying.CloneCopyPolicy
* @see org.eclipse.persistence.descriptors.copying.InstantiationCopyPolicy
*/
public interface CopyPolicy extends Cloneable, Serializable {

    /**
     * Return a shallow clone of the object for usage with object copying, or unit of work backup cloning.
     */
    Object buildClone(Object object, Session session) throws DescriptorException;

    /**
     * Return a shallow clone of the object for usage with the unit of work working copy.
     */
    Object buildWorkingCopyClone(Object object, Session session) throws DescriptorException;

    /**
     * Return an instance with the primary key set from the row, used for building a working copy during a unit of
    work transactional read.
     */
    Object buildWorkingCopyCloneFromRow(Record row, ObjectBuildingQuery query, Object primaryKey,
    UnitOfWork uow) throws DescriptorException;

    /**
     * Clone the CopyPolicy.
     */
    Object clone();

    /**
     * Allow for any initialization or validation required.
     */
    void initialize(Session session) throws DescriptorException;

    /**
     * Set the descriptor.
     */
    void setDescriptor(ClassDescriptor descriptor);

    /**
     * Return if this copy policy creates a new instance, vs a clone.
     */
    boolean buildsNewInstance();
}
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*****/

package org.eclipse.persistence.descriptors.copyping;

```
import org.eclipse.persistence.descriptors.ClassDescriptor;
import org.eclipse.persistence.exceptions.*;
import org.eclipse.persistence.sessions.*;
import org.eclipse.persistence.queries.ObjectBuildingQuery;
```

/**

* <p>Purpose: Allows customization of how an object is cloned.
 * This class defines common behavior that allows a subclass to be used
 * and set on a descriptor to provide a special cloning routine for how an object
 * is cloned in a unit of work.

*/

```
public abstract class AbstractCopyPolicy implements CopyPolicy {
    protected ClassDescriptor descriptor;
```

```
    public AbstractCopyPolicy() {
        super();
    }
```

```
    public abstract Object buildClone(Object domainObject, Session session) throws DescriptorException;
```

/**

* By default use the buildClone.

*/

```
    public Object buildWorkingCopyClone(Object domainObject, Session session) throws DescriptorException {
        return buildClone(domainObject, session);
    }
```

/**

* By default create a new instance.

*/

```
    public Object buildWorkingCopyCloneFromRow(Record row, ObjectBuildingQuery query, Object primaryKey,
        UnitOfWork uow) throws DescriptorException {
        return this.descriptor.getObjectBuilder().buildNewInstance();
    }
```

/**

* INTERNAL:

```

* Clones the CopyPolicy
*/
public Object clone() {
    try {
        // clones itself
        return super.clone();
    } catch (Exception exception) {
    }
    return null;
}

/**
 * Return the descriptor.
 */
protected ClassDescriptor getDescriptor() {
    return descriptor;
}

/**
 * Do nothing by default.
 */
public void initialize(Session session) throws DescriptorException {
    // Do nothing by default.
}

/**
 * Set the descriptor.
 */
public void setDescriptor(ClassDescriptor descriptor) {
    this.descriptor = descriptor;
}
}

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 *
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 *****/
package org.eclipse.persistence.descriptors.copying;

import org.eclipse.persistence.exceptions.*;

```

```

import org.eclipse.persistence.internal.descriptors.PersistenceObject;
import org.eclipse.persistence.internal.helper.*;
import org.eclipse.persistence.sessions.*;

/**
 * <p><b>Purpose</b></p>: This is the default copy policy when weaving is used.
 *
 * It creates a copy by creating a shallow clone of the object using the weaved _persistence_shallow_clone() method.
 */
public class PersistenceEntityCopyPolicy extends AbstractCopyPolicy {
    public PersistenceEntityCopyPolicy() {
        super();
    }

    public Object buildWorkingCopyClone(Object object, Session session) throws DescriptorException {
        return ((PersistenceObject)object)._persistence_shallow_clone();
    }

    public Object buildClone(Object object, Session session) throws DescriptorException {
        return ((PersistenceObject)object)._persistence_shallow_clone();
    }

    public boolean buildsNewInstance() {
        return false;
    }

    public String toString() {
        return Helper.getShortClassName(this) + "()";
    }
}

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package org.eclipse.persistence.descriptors.copying;

import org.eclipse.persistence.exceptions.*;
import org.eclipse.persistence.internal.helper.*;
import org.eclipse.persistence.sessions.*;

```

```

/**
 * <p><b>Purpose</b>: This is the default copy policy.
 *
 * It creates a copy by creating a new instance of the object and then using the
 * mappings specified for the object to populate the object.
 */
public class InstantiationCopyPolicy extends AbstractCopyPolicy {
    public InstantiationCopyPolicy() {
        super();
    }

    public Object buildClone(Object domainObject, Session session) throws DescriptorException {
        return getDescriptor().getObjectBuilder().buildNewInstance();
    }

    public boolean buildsNewInstance() {
        return true;
    }

    public String toString() {
        return Helper.getShortClassName(this) + "()";
    }
}
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 *****/
package org.eclipse.persistence.descriptors.copying;

import java.lang.reflect.*;
import java.security.AccessController;
import java.security.PrivilegedActionException;

import org.eclipse.persistence.exceptions.*;
import org.eclipse.persistence.internal.helper.*;
import org.eclipse.persistence.queries.ObjectBuildingQuery;
import org.eclipse.persistence.sessions.*;
import org.eclipse.persistence.internal.sessions.AbstractRecord;
import org.eclipse.persistence.internal.descriptors.ObjectBuilder;
import org.eclipse.persistence.internal.security.PrivilegedAccessHelper;

```

```

import org.eclipse.persistence.internal.security.PrivilegedMethodInvoker;

/**
 * <p><b>Purpose</b></p>: Allows a clone of an object to be created with a method that returns
 * the cloned object.
 *
 * It is possible to define methods for two types of clones
 *
 * 1. methodName can be set to define the method EclipseLink uses to clone objects for it's
 * own internal use. The objects created by this method will not be visible to the user, and
 * instead used as a basis for comparison when a DeferredChangeDetectionPolicy used. This method will
 * also be in place of the workingCopyMethod if it is not provided
 *
 * 2. workingCopyMethod this method is used to create the clone that is returned to the user when an
 * Object is registered in a UnitOfWork
 */
public class CloneCopyPolicy extends AbstractCopyPolicy {

    /** Allow for clone method to be specified. */
    protected String methodName;
    protected String workingCopyMethodName;
    protected transient Method method;
    protected transient Method workingCopyMethod;

    public CloneCopyPolicy() {
        super();
    }

    /**
     * Clone through calling the clone method.
     */
    public Object buildClone(Object domainObject, Session session) throws DescriptorException {
        // Must allow for null clone method for 9.0.4 deployment XML.
        if (this.getMethodName() == null) {
            return getDescriptor().getObjectBuilder().buildNewInstance();
        }
        try {
            if (PrivilegedAccessHelper.shouldUsePrivilegedAccess()){
                try {
                    return AccessController.doPrivileged(new PrivilegedMethodInvoker(this.getMethod(), domainObject,
                    new Object[0]));
                } catch (PrivilegedActionException exception) {
                    Exception throwableException = exception.getException();
                    if (throwableException instanceof IllegalAccessException) {
                        throw DescriptorException.illegalAccessWhileCloning(domainObject, this.getMethodName(),
                    this.getDescriptor(), throwableException);
                    } else {
                        throw DescriptorException.targetInvocationWhileCloning(domainObject, this.getMethodName(),

```

```

this.getDescriptor(), throwableException);

        }
    }
    } else {
        return PrivilegedAccessHelper.invokeMethod(this.getMethod(), domainObject, new Object[0]);
    }
} catch (IllegalAccessException exception) {
    throw DescriptorException.illegalAccessWhileCloning(domainObject, this.getMethodName(),
this.getDescriptor(), exception);
} catch (InvocationTargetException exception) {
    throw DescriptorException.targetInvocationWhileCloning(domainObject, this.getMethodName(),
this.getDescriptor(), exception);
}
}
}

/**
 * Clone through the workingCopyClone method, or if not specified the clone method.
 */
public Object buildWorkingCopyClone(Object domainObject, Session session) throws DescriptorException {
    if (this.getWorkingCopyMethodName() == null) {
        //not implemented to perform special operations.
        return this.buildClone(domainObject, session);
    }

    try {
        if (PrivilegedAccessHelper.shouldUsePrivilegedAccess()){
            try {
                return AccessController.doPrivileged(new PrivilegedMethodInvoker(this.getWorkingCopyMethod(),
domainObject, new Object[0]));
            } catch (PrivilegedActionException exception) {
                Exception throwableException = exception.getException();
                if (throwableException instanceof IllegalAccessException) {
                    throw DescriptorException.illegalAccessWhileCloning(domainObject, this.getMethodName(),
this.getDescriptor(), throwableException);
                } else {
                    throw DescriptorException.targetInvocationWhileCloning(domainObject, this.getMethodName(),
this.getDescriptor(), throwableException);
                }
            }
        } else {
            return PrivilegedAccessHelper.invokeMethod(this.getWorkingCopyMethod(), domainObject, new
Object[0]);
        }

    } catch (IllegalAccessException exception) {
        throw DescriptorException.illegalAccessWhileCloning(domainObject, this.getMethodName(),
this.getDescriptor(), exception);
    }
}

```

```

        } catch (InvocationTargetException exception) {
            throw DescriptorException.targetInvocationWhileCloning(domainObject, this.getMethodName(),
this.getDescriptor(), exception);
        }
    }

/**
 * Create a new instance, unless a workingCopyClone method is specified, then build a new instance and clone it.
 */
@Override
public Object buildWorkingCopyCloneFromRow(Record row, ObjectBuildingQuery query, Object primaryKey,
UnitOfWork uow) throws DescriptorException {
    // For now must preserve CMP code which builds heavy clones with a context.
    // Also preserve for clients who use the copy policy.
    ObjectBuilder builder = getDescriptor().getObjectBuilder();
    if (getWorkingCopyMethodName() != null) {
        Object original = builder.buildNewInstance();
        builder.buildAttributesIntoShallowObject(original, (AbstractRecord)row, query);
        return buildWorkingCopyClone(original, query.getSession());
    } else {
        return builder.buildNewInstance();
    }
}

/**
 * Return the clone method.
 */
protected Method getMethod() {
    return method;
}

/**
 * Return the clone method name.
 */
public String getMethodName() {
    return methodName;
}

/**
 * Return the workingCopyClone method.
 * This is used to clone within a unit of work.
 */
protected Method getWorkingCopyMethod() {
    return workingCopyMethod;
}

/**
 * Return the workingCopyClone method name.

```



```

* This is used to clone within a unit of work.
*/
public String getWorkingCopyMethodName() {
    return workingCopyMethodName;
}

/**
* Validate and build the methods.
*/
public void initialize(Session session) throws DescriptorException {
    final Class javaClass = this.getDescriptor().getJavaClass();
    try {
        // Must allow for null clone method for 9.0.4 deployment XML.
        if (this.getMethodName() != null) {
            this.setMethod(Helper.getDeclaredMethod(javaClass, this.getMethodName(), new Class[0]));
        }
    } catch (NoSuchMethodException exception) {
        session.getIntegrityChecker().handleError(DescriptorException.noSuchMethodWhileInitializingCopyPolicy(this.getMethodName(), this.getDescriptor(), exception));
    } catch (SecurityException exception) {
        session.getIntegrityChecker().handleError(DescriptorException.securityWhileInitializingCopyPolicy(this.getMethodName(), this.getDescriptor(), exception));
    }
    if (this.getWorkingCopyMethodName() != null) {
        try {
            this.setWorkingCopyMethod(Helper.getDeclaredMethod(javaClass, this.getWorkingCopyMethodName(), new Class[0]));
        } catch (NoSuchMethodException exception) {
            session.getIntegrityChecker().handleError(DescriptorException.noSuchMethodWhileInitializingCopyPolicy(this.getMethodName(), this.getDescriptor(), exception));
        } catch (SecurityException exception) {
            session.getIntegrityChecker().handleError(DescriptorException.securityWhileInitializingCopyPolicy(this.getMethodName(), this.getDescriptor(), exception));
        }
    }
}

/**
* Set the clone method.
*/
protected void setMethod(Method method) {
    this.method = method;
}

/**
* Set the clone method name.
*/
public void setMethodName(String methodName) {

```

```

        this.methodName = methodName;
    }

    /**
     * Set the workingCopyClone method.
     * This is used to clone within a unit of work.
     */
    protected void setWorkingCopyMethod(Method method) {
        this.workingCopyMethod = method;
    }

    /**
     * Set the workingCopyClone method name.
     * This is used to clone within a unit of work.
     */
    public void setWorkingCopyMethodName(String methodName) {
        this.workingCopyMethodName = methodName;
    }

    /**
     * Return false as a shallow clone is returned, not a new instance.
     */
    public boolean buildsNewInstance() {
        return getMethodName() == null;
    }

    public String toString() {
        return Helper.getShortClassName(this) + "(" + this.getMethodName() + ")";
    }
}
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1.12 fingerbank 6.8.2

1.12.1 Available under license :

```
#!/usr/bin/perl
=head1 NAME
```

```
fingerbank-dhcp-most-matches.pl
```

```
=head1 DESCRIPTION
```

Find what fingerprint matches the most a given DHCP fingerprint.
Supports several strategies to do so and adding new ones should be relatively easy.
[...]

```
=head1 AUTHOR
```

```
Olivier Bilodeau <obilodeau@inverse.ca>
```

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=head1 COPYRIGHT
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```
#!/usr/bin/perl
=head1 NAME
```

fingerprint-trim-existing.pl

```
=head1 DESCRIPTION
```

Output the unknown fingerprints from a given file.

[...]

```
=head1 AUTHOR
```

Olivier Bilodeau <obilodeau@inverse.ca>

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```
# dhcp_fingerprints.conf Version 6.8.2 Date 20140609
#
# FingerBank - DHCP fingerprint / signature database
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#
# The FingerBank database is made available under the Open Database License.
# See LICENSE.odbl-10.txt for the full text or
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#
# Any rights in individual contents of the database are licensed under the
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```



```
# http://opendatacommons.org/licenses/dbcl/1.0/
#
#
# PacketFence specific information
#
# The identifiers in the "class" and "os" definitions are trigger IDs
# When an OS is detected, the appropriate os and class triggers are thrown
#
# Please see violations.conf for examples of how to auto-register or ban
# specific OS types.
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```
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```

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```
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```

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1.16 HK2 API module 2.4.0-b31

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1.18 icu4c 57.1

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```
## -*-makefile-*  
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)  
## Copyright (c) 1999-2013, International Business Machines Corporation and  
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## Commands to generate dependency files  
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)  
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)  
  
## Flags for position independent code  
SHAREDLIBCFLAGS = -fPIC  
SHAREDLIBCXXFLAGS = -fPIC  
SHAREDLIBCPPFLAGS = -DPIC  
  
## Additional flags when building libraries and with threads  
THREADSCPPFLAGS = -D_REENTRANT  
LIBCPPFLAGS =  
  
## Compiler switch to embed a runtime search path  
LD_RPATH=  
LD_RPATH_PRE= -Wl,-rpath,  
  
## Compiler switch to embed a library name  
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))  
  
## Shared library options  
LD_SOOPTIONS= -Wl,-Bsymbolic  
  
## Shared object suffix  
SO = so  
## Non-shared intermediate object suffix  
STATIC_O = ao  
  
## Compilation rules  
%. $(STATIC_O): $(srcdir)/%.c  
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<  
%.o: $(srcdir)/%.c  
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<  
  
%. $(STATIC_O): $(srcdir)/%.cpp  
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<  
%.o: $(srcdir)/%.cpp  
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<
```



```

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed "\"s\($*\)\.o[ :]*\1.o $@ : /g\" > $@; \
[ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed "\"s\($*\)\.o[ :]*\1.o $@ : /g\" > $@; \
[ -s $@ ] || rm -f $@'

## Versioned libraries rules

%.${SO}.${SO_TARGET_VERSION_MAJOR}: %.${SO}.${SO_TARGET_VERSION}
$(RM) $@ && ln -s ${<F} $@
%.${SO}: %.${SO}.${SO_TARGET_VERSION_MAJOR}
$(RM) $@ && ln -s ${*F}.${SO}.${SO_TARGET_VERSION} $@

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup
ICU License - ICU 1.8.1 and later

```

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1.27 JDOM 1.1

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1.35 json_simple 1.1

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1.36 Idns 1.7.1

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/*

* FILE: sha2.c

* AUTHOR: Aaron D. Gifford - <http://www.aarongifford.com/>

*

```

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*
* Modified by Jelte Jansen to fit in ldns, and not clash with any
* system-defined SHA code.
* Changes:
* - Renamed (external) functions and constants to fit ldns style
* - Removed _End and _Data functions
* - Added ldns_shaX(data, len, digest) convenience functions
* - Removed prototypes of _Transform functions and made those static
*
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*
* $Id: sha2.c,v 1.1 2001/11/08 00:01:51 adg Exp adg $
*/
/* from openssh 4.3p2 compat/strncpy.c */
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```
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```

```
## DO NOT EDIT - This file generated from ./build-aux/ltmain.in
```

```
##      by inline-source v2014-01-03.01
```

```
# libtool (GNU libtool) 2.4.6
```

```
# Provide generalized library-building support services.
```

```
# Written by Gordon Matzigkeit <gord@gnu.ai.mit.edu>, 1996
```

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```
/* From openssl 4.3p2 filename openssl-compat/fake-rfc2553.h */
```

```
/*
```

```
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```

```

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1.37 libevent 2.0.22

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1.43 tcl 8.6.4

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1.44 tomcat 8.5.42

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- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
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- web-app_3_0.xsd
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- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd

- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
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- javaee_5.xsd
- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd

- javaee_web_services_client_1_3.xsd
- web-app_3_0.xsd
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