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  - 1.268.1 Available under license
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  - 1.269.1 Available under license
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  - 1.270.1 Available under license
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  - 1.271.1 Available under license
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  - 1.272.1 Available under license
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  - 1.273.1 Available under license
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- 1.329 cxf-rt-core 2.7.7**
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-- activemq-web

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== For the standardista-table-sorting.js library ==  
== For the css.js library ==

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== For the style.css library           ==
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Initial authors:

Stefan Haustein

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2001-12-12

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;; Copyright (C) 1999-2001 Free Software Foundation, Inc.
;;
;; Author: Christoph.Wedler@sap.com
;; Keywords: languages
;; Version: 2.1
;; X-URL: http://www.fmi.uni-passau.de/~wedler/antlr-mode/

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- \*/

```
package org.apache.commons.codec;
```

```
/**
```

```
* Defines common decoding methods for byte array decoders.
*
* @author Apache Software Foundation
* @version $Id: BinaryDecoder.java,v 1.10 2004/06/15 18:14:15 ggregory Exp $
*/
```

```
public interface BinaryDecoder extends Decoder {
```

```
/**
```

```
* Decodes a byte array and returns the results as a byte array.
*
* @param pArray A byte array which has been encoded with the
*   appropriate encoder
*
* @return a byte array that contains decoded content
*
* @throws DecoderException A decoder exception is thrown
*   if a Decoder encounters a failure condition during
*   the decode process.
*/
```

```
byte[] decode(byte[] pArray) throws DecoderException;
```

```
}
```

The commons-codec team is pleased to announce the Codec 1.3 release!

<http://jakarta.apache.org/commons/codec/>

The codec package contains simple encoder and decoders for various formats such as Base64 and Hexadecimal. In addition to these widely used encoders and decoders, the codec package also maintains a collection of phonetic encoding utilities.

Changes in this version include:

#### New Features:

- o BinaryCodec: Encodes and decodes binary to and from Strings of 0s and 1s. Issue: 27813. Thanks to Alex Karasulu.
- o QuotedPrintableCodec: Codec for RFC 1521 MIME (Multipurpose Internet Mail Extensions) Part One. Rules #3, #4, and #5 of the quoted-printable spec are not implemented yet. See also issue 27789. Issue: 26617. Thanks to Oleg Kalnichevski.
- o BCodec: Identical to the Base64 encoding defined by RFC 1521 and allows a character set to be specified. Issue: 26617. Thanks to Oleg Kalnichevski.
- o QCodec: Similar to the Quoted-Printable content-transfer-encoding defined in RFC 1521 and designed to allow text containing mostly ASCII characters to be decipherable on an ASCII terminal without decoding. Issue: 26617. Thanks to Oleg Kalnichevski.
- o Soundex: Implemented the DIFFERENCE algorithm. Issue: 25243. Thanks to Matthew Inger.
- o RefinedSoundex: Implemented the DIFFERENCE algorithm. Issue: 25243. Thanks to Matthew Inger.

#### Fixed bugs:

- o The default URL encoding logic was broken. Issue: 25995. Thanks to Oleg Kalnichevski.
- o Base64 chunked encoding not compliant with RFC 2045 section 2.1 CRLF. Issue: 27781. Thanks to Gary D. Gregory.
- o Hex converts illegal characters to 255. Issue: 28455.
- o Metaphone now correctly handles a silent B in a word that ends in MB. "COMB" is encoded as "KM", before this fix "COMB" was encoded as "KMB". Issue: 28457.
- o Added missing tags in Javadoc comments.
- o General Javadoc improvements.

#### Changes:

- o This version is released under the Apache License 2.0, please see LICENSE.txt. Previous versions were released under the Apache License 1.1.
- o The Board recommendation to remove Javadoc author tags has been implemented. All author tags are now "Apache Software Foundation".

Have fun!

-The commons-codec team

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The snowball stemmers in

`contrib/analyzers/common/src/java/net/sf/snowball`

were developed by Martin Porter and Richard Boulton.

The snowball stopword lists in

`contrib/analyzers/common/src/resources/org/apache/lucene/analysis/snowball`

were developed by Martin Porter and Richard Boulton.

The full snowball package is available from

<http://snowball.tartarus.org/>

The Arabic, Persian, Romanian, Bulgarian, and Hindi analyzers (common) come with a default stopword list that is BSD-licensed created by Jacques Savoy. These files reside in:

`contrib/analyzers/common/src/resources/org/apache/lucene/analysis/ar/stopwords.txt,`

`contrib/analyzers/common/src/resources/org/apache/lucene/analysis/fa/stopwords.txt,`

`contrib/analyzers/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,`

`contrib/analyzers/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,`

`contrib/analyzers/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt`

See <http://members.unine.ch/jacques.savoy/clef/index.html>.

The German, Spanish, Finnish, French, Hungarian, Italian, Portuguese, Russian and Swedish light stemmers (common) are based on BSD-licensed reference implementations created by Jacques Savoy and Ljiljana Dolamic. These files reside in:

`contrib/analyzers/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java`

`contrib/analyzers/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java`

`contrib/analyzers/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java`

`contrib/analyzers/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java`

`contrib/analyzers/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java`

`contrib/analyzers/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java`

`contrib/analyzers/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java`

`contrib/analyzers/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java`

`contrib/analyzers/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java`

`contrib/analyzers/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java`

`contrib/analyzers/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java`

The Stempel analyzer (stempel) includes BSD-licensed software developed

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The Polish analyzer (stempel) comes with a default

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in `contrib/analyzers/stempel/src/resources/org/apache/lucene/analysis/pl/stopwords.txt`.

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The SmartChineseAnalyzer source code (smartcn) was provided by Xiaoping Gao and copyright 2009 by www.imdict.net.

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The snowball stemmers in

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The Arabic, Persian, Romanian, Bulgarian, and Hindi analyzers (common) come with a default stopword list that is BSD-licensed created by Jacques Savoy. These files reside in:

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See <http://members.unine.ch/jacques.savoy/clef/index.html>.

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 were developed by Martin Porter and Richard Boulton.

The full snowball package is available from  
<http://snowball.tartarus.org/>

The Arabic, Persian, Romanian, Bulgarian, and Hindi analyzers (common) come with a default stopword list that is BSD-licensed created by Jacques Savoy. These files reside in:  
 contrib/analyzers/common/src/resources/org/apache/lucene/analysis/ar/stopwords.txt,  
 contrib/analyzers/common/src/resources/org/apache/lucene/analysis/fa/stopwords.txt,  
 contrib/analyzers/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,  
 contrib/analyzers/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,  
 contrib/analyzers/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt  
 See <http://members.unine.ch/jacques.savoy/clef/index.html>.

The German, Spanish, Finnish, French, Hungarian, Italian, Portuguese, Russian and Swedish light stemmers (common) are based on BSD-licensed reference implementations created by Jacques Savoy and Ljiljana Dolamic. These files reside in:

contrib/analyzers/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java  
 contrib/analyzers/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java  
 contrib/analyzers/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java  
 contrib/analyzers/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java  
 contrib/analyzers/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java  
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 contrib/analyzers/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java  
 contrib/analyzers/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

The Stempel analyzer (stempel) includes BSD-licensed software developed by the Egothor project <http://egothor.sf.net/>, created by Leo Galambos, Martin Kvapil, and Edmond Nolan.

The Polish analyzer (stempel) comes with a default stopword list that is BSD-licensed created by the Carrot2 project. The file resides in contrib/analyzers/stempel/src/resources/org/apache/lucene/analysis/pl/stopwords.txt.

See <http://project.carrot2.org/license.html>.

The SmartChineseAnalyzer source code (smartcn) was provided by Xiaoping Gao and copyright 2009 by [www.imdict.net](http://www.imdict.net).

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## 1.71 AspectJ runtime 1.6.1

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## 1.72 AspectJ tools 1.8.4

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```
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*   PARC   initial implementation  
* *****
```

```
package org.aspectj.ajdt.internal.compiler.lookup;
```

```
import org.aspectj.org.eclipse.jdt.internal.compiler.lookup.MethodBinding;  
import org.aspectj.org.eclipse.jdt.internal.compiler.lookup.SyntheticMethodBinding;
```

```
public class SimpleSyntheticAccessMethodBinding extends SyntheticMethodBinding {  
    // public SimpleSyntheticAccessMethodBinding(MethodBinding method) {  
    //     super(method);  
    //     this.declaringClass = method.declaringClass;  
    //     this.selector = method.selector;
```

```

// this.modifiers = method.modifiers;
// this.parameters = method.parameters;
// this.returnType = method.returnType;
// }

public SimpleSyntheticAccessMethodBinding(MethodBinding binding) {
    super(binding);
}
}
/* *****
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* http://www.eclipse.org/legal/epl-v10.html
*
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*   PARC   initial implementation
* *****/

package org.aspectj ajdt.internal.compiler.ast;

import org.aspectj.org.eclipse.jdt.internal.compiler.ASTVisitor;
//import org.aspectj.org.eclipse.jdt.internal.compiler.ast.AnonymousLocalTypeDeclaration;
import org.aspectj.org.eclipse.jdt.internal.compiler.ast.ConstructorDeclaration;
import org.aspectj.org.eclipse.jdt.internal.compiler.ast.FieldDeclaration;
import org.aspectj.org.eclipse.jdt.internal.compiler.ast.TypeDeclaration;
//import org.aspectj.org.eclipse.jdt.internal.compiler.ast.LocalTypeDeclaration;
import org.aspectj.org.eclipse.jdt.internal.compiler.ast.MethodDeclaration;
import org.aspectj.org.eclipse.jdt.internal.compiler.lookup.BlockScope;
import org.aspectj.org.eclipse.jdt.internal.compiler.lookup.ClassScope;
import org.aspectj.org.eclipse.jdt.internal.compiler.lookup.MethodScope;

/**
 * Takes a method that already has the three extra parameters
 * thisJoinPointStaticPart, thisJoinPoint and thisEnclosingJoinPointStaticPart
 */

public class MakeDeclsPublicVisitor extends ASTVisitor {

    public void endVisit(ConstructorDeclaration decl, ClassScope scope) {
        if (decl.binding==null) return;
        decl.binding.modifiers = AstUtil.makePublic(decl.binding.modifiers);
    }

    public void endVisit(FieldDeclaration decl, MethodScope scope) {

```

```

if (decl.binding==null) return;
decl.binding.modifiers = AstUtil.makePublic(decl.binding.modifiers);
}

public void endVisit(MethodDeclaration decl, ClassScope scope) {
if (decl.binding==null) return;
decl.binding.modifiers = AstUtil.makePublic(decl.binding.modifiers);
}

/* (non-Javadoc)
 * @see org.eclipse.jdt.internal.compiler.ASTVisitor#endVisit(org.eclipse.jdt.internal.compiler.ast.TypeDeclaration,
org.eclipse.jdt.internal.compiler.lookup.BlockScope)
 */
public void endVisit(
TypeDeclaration localTypeDeclaration,
BlockScope scope) {
if (localTypeDeclaration.binding==null) return;
localTypeDeclaration.binding.modifiers = AstUtil.makePublic(localTypeDeclaration.binding.modifiers);
}

/* (non-Javadoc)
 * @see org.eclipse.jdt.internal.compiler.ASTVisitor#endVisit(org.eclipse.jdt.internal.compiler.ast.TypeDeclaration,
org.eclipse.jdt.internal.compiler.lookup.ClassScope)
 */
public void endVisit(
TypeDeclaration memberTypeDeclaration,
ClassScope scope) {
if (memberTypeDeclaration.binding==null) return;
memberTypeDeclaration.binding.modifiers = AstUtil.makePublic(memberTypeDeclaration.binding.modifiers);
}

}

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 * http://www.eclipse.org/legal/epl-v10.html
 *
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 *****/

package org.aspectj.org.eclipse.jdt.core.dom;

import java.util.ArrayList;
import java.util.HashMap;

```

```

import java.util.List;
import java.util.Map;

/**
 * Primitive type nodes.
 * <pre>
 * PrimitiveType:
 * { Annotation } <b>byte</b>
 * { Annotation } <b>short</b>
 * { Annotation } <b>char</b>
 * { Annotation } <b>int</b>
 * { Annotation } <b>long</b>
 * { Annotation } <b>float</b>
 * { Annotation } <b>double</b>
 * { Annotation } <b>boolean</b>
 * { Annotation } <b>void</b>
 * </pre>
 * <p>
 * Note that due to the fact that AST nodes belong to a specific AST and
 * have a specific parent, there needs to multiple instances of these
 * nodes.
 * </p>
 *
 * @since 2.0
 * @noinstantiate This class is not intended to be instantiated by clients.
 */
@SuppressWarnings({"rawtypes", "unchecked"})
public class PrimitiveType extends AnnotatableType {

    /**
     * Primitive type codes (typesafe enumeration).
     * <pre>
     * <b>byte</b> BYTE
     * <b>short</b> SHORT
     * <b>char</b> CHAR
     * <b>int</b> INT
     * <b>long</b> LONG
     * <b>float</b> FLOAT
     * <b>double</b> DOUBLE
     * <b>boolean</b> BOOLEAN
     * <b>void</b> VOID
     * </pre>
     */
    public static class Code {

        /**
         * The name of the type.
         */

```

```

private String name;

/**
 * Creates a new primitive type code with the given name.
 * <p>
 * Note: this constructor is package-private. The only instances
 * ever created are the ones for the standard primitive types.
 * </p>
 *
 * @param name the standard name of the primitive type
 */
Code(String name) {
    this.name = name;
}

/**
 * Returns the standard name of the primitive type.
 *
 * @return the standard name of the primitive type
 */
public String toString() {
    return this.name;
}
}

/** Type code for the primitive type "int". */
public static final Code INT = new Code("int");//$NON-NLS-1$
/** Type code for the primitive type "char". */
public static final Code CHAR = new Code("char");//$NON-NLS-1$
/** Type code for the primitive type "boolean". */
public static final Code BOOLEAN = new Code("boolean");//$NON-NLS-1$
/** Type code for the primitive type "short". */
public static final Code SHORT = new Code("short");//$NON-NLS-1$
/** Type code for the primitive type "long". */
public static final Code LONG = new Code("long");//$NON-NLS-1$
/** Type code for the primitive type "float". */
public static final Code FLOAT = new Code("float");//$NON-NLS-1$
/** Type code for the primitive type "double". */
public static final Code DOUBLE = new Code("double");//$NON-NLS-1$
/** Type code for the primitive type "byte". */
public static final Code BYTE = new Code("byte");//$NON-NLS-1$

/** Type code for the primitive type "void". Note that "void" is
 * special in that its only legitimate uses are as a method return
 * type and as a type literal.
 */
public static final Code VOID = new Code("void");//$NON-NLS-1$

```

```

/**
 * The primitive type code; one of the PrimitiveType constants; default
 * is int.
 */
private PrimitiveType.Code typeCode = INT;

/**
 * Map from token to primitive type code (key type: <code>String</code>;
 * value type: <code>PrimitiveType.Code</code>).
 */
private static final Map CODES;
static {
    CODES = new HashMap(20);
    Code[] ops = {
        INT,
        BYTE,
        CHAR,
        BOOLEAN,
        SHORT,
        LONG,
        FLOAT,
        DOUBLE,
        VOID,
    };
    for (int i = 0; i < ops.length; i++) {
        CODES.put(ops[i].toString(), ops[i]);
    }
}

/**
 * Returns the primitive type code corresponding to the given string,
 * or <code>null</code> if none.
 *
 * <p>
 * <code>toCode</code> is the converse of <code>toString</code>:
 * that is,
 * <code>PrimitiveType.Code.toCode(code.toString()) == code</code>
 * for all type code <code>code</code>.
 * </p>
 *
 * @param token the standard name of the primitive type
 * @return the primitive type code, or <code>null</code> if none
 */
public static PrimitiveType.Code toCode(String token) {
    return (PrimitiveType.Code) CODES.get(token);
}

/**
 * The "annotations" structural property of this node type (element type: { @link Annotation}).

```

```

* @since 3.10
*/
public static final ChildListPropertyDescriptor ANNOTATIONS_PROPERTY =
    internalAnnotationsPropertyFactory(PrimitiveType.class);

/**
* The "primitiveTypeCode" structural property of this node type (type: {@link PrimitiveType.Code}).
* @since 3.0
*/
public static final SimplePropertyDescriptor PRIMITIVE_TYPE_CODE_PROPERTY =
    new SimplePropertyDescriptor(PrimitiveType.class, "primitiveTypeCode", PrimitiveType.Code.class,
MANDATORY); //$NON-NLS-1$

/**
* A list of property descriptors (element type:
* {@link StructuralPropertyDescriptor}),
* or null if uninitialized.
*/
private static final List PROPERTY_DESCRIPTOR;

/**
* A list of property descriptors (element type:
* {@link StructuralPropertyDescriptor}),
* or null if uninitialized.
* @since 3.10
*/
private static final List PROPERTY_DESCRIPTOR_8_0;
static {
    List propertyList = new ArrayList(2);
    createPropertyList(PrimitiveType.class, propertyList);
    addProperty(PRIMITIVE_TYPE_CODE_PROPERTY, propertyList);
    PROPERTY_DESCRIPTOR = reapPropertyList(propertyList);

    propertyList = new ArrayList(3);
    createPropertyList(PrimitiveType.class, propertyList);
    addProperty(ANNOTATIONS_PROPERTY, propertyList);
    addProperty(PRIMITIVE_TYPE_CODE_PROPERTY, propertyList);
    PROPERTY_DESCRIPTOR_8_0 = reapPropertyList(propertyList);
}

/**
* Returns a list of structural property descriptors for this node type.
* Clients must not modify the result.
*
* @param apiLevel the API level; one of the
* <code>AST.JLS*</code> constants
*
* @return a list of property descriptors (element type:
* {@link StructuralPropertyDescriptor})

```

```

* @since 3.0
*/
public static List propertyDescriptors(int apiLevel) {
    switch (apiLevel) {
        case AST.JLS2_INTERNAL :
        case AST.JLS3_INTERNAL :
        case AST.JLS4_INTERNAL:
            return PROPERTY_DESCRIPTOR;
        default :
            return PROPERTY_DESCRIPTOR_8_0;
    }
}

/**
 * Creates a new unparented node for a primitive type owned by the given
 * AST. By default, the node has type "int".
 * <p>
 * N.B. This constructor is package-private.
 * </p>
 *
 * @param ast the AST that is to own this node
 */
PrimitiveType(AST ast) {
    super(ast);
}

/* (omit javadoc for this method)
 * Method declared on AnnotatableType.
 * @since 3.10
 */
final ChildListPropertyDescriptor internalAnnotationsProperty() {
    return ANNOTATIONS_PROPERTY;
}

/* (omit javadoc for this method)
 * Method declared on ASTNode.
 */
final List internalStructuralPropertiesForType(int apiLevel) {
    return propertyDescriptors(apiLevel);
}

/* (omit javadoc for this method)
 * Method declared on ASTNode.
 */
final List internalGetChildListProperty(ChildListPropertyDescriptor property) {
    if (property == ANNOTATIONS_PROPERTY) {
        return annotations();
    }
}

```



```

// allow default implementation to flag the error
return super.internalGetChildListProperty(property);
}

/* (omit javadoc for this method)
 * Method declared on ASTNode.
 */
final Object internalGetSetObjectProperty(SimplePropertyDescriptor property, boolean get, Object value) {
if (property == PRIMITIVE_TYPE_CODE_PROPERTY) {
if (get) {
return getPrimitiveTypeCode();
} else {
setPrimitiveTypeCode((Code) value);
return null;
}
}
// allow default implementation to flag the error
return super.internalGetSetObjectProperty(property, get, value);
}

/* (omit javadoc for this method)
 * Method declared on ASTNode.
 */
final int getNodeType0() {
return PRIMITIVE_TYPE;
}

/* (omit javadoc for this method)
 * Method declared on ASTNode.
 */
ASTNode clone0(AST target) {
PrimitiveType result = new PrimitiveType(target);
result.setSourceRange(getStartPosition(), getLength());
if (this.ast.apiLevel >= AST.JLS8) {
result.annotations().addAll(
ASTNode.copySubtrees(target, annotations()));
}
result.setPrimitiveTypeCode(getPrimitiveTypeCode());
return result;
}

/* (omit javadoc for this method)
 * Method declared on ASTNode.
 */
final boolean subtreeMatch0(ASTMatcher matcher, Object other) {
// dispatch to correct overloaded match method
return matcher.match(this, other);
}

```

```

/* (omit javadoc for this method)
 * Method declared on ASTNode.
 */
void accept0(ASTVisitor visitor) {
    boolean visitChildren = visitor.visit(this);
    if (visitChildren) {
        // visit children in normal left to right reading order
        if (this.ast.apiLevel >= AST.JLS8) {
            acceptChildren(visitor, this.annotations);
        }
    }
    visitor.endVisit(this);
}

/**
 * Returns the primitive type code.
 *
 * @return one of the primitive type code constants declared in this
 * class
 */
public PrimitiveType.Code getPrimitiveTypeCode() {
    return this.typeCode;
}

/**
 * Sets the primitive type code.
 *
 * @param typeCode one of the primitive type code constants declared in
 * this class
 * @exception IllegalArgumentException if the argument is incorrect
 */
public void setPrimitiveTypeCode(PrimitiveType.Code typeCode) {
    if (typeCode == null) {
        throw new IllegalArgumentException();
    }
    preValueChange(PRIMITIVE_TYPE_CODE_PROPERTY);
    this.typeCode = typeCode;
    postValueChange(PRIMITIVE_TYPE_CODE_PROPERTY);
}

/* (omit javadoc for this method)
 * Method declared on ASTNode.
 */
int memSize() {
    // treat Code as free
    return BASE_NODE_SIZE + 2 * 4;
}

```

```

/* (omit javadoc for this method)
 * Method declared on ASTNode.
 */
int treeSize() {
    return memSize()
        + (this.annotations == null ? 0 : this.annotations.listSize());
}
}
/*****
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 * which accompanies this distribution, and is available at
 * http://www.eclipse.org/legal/epl-v10.html
 *
 * Contributors:
 *   IBM Corporation - initial API and implementation
 *****/

package org.aspectj.org.eclipse.jdt.core.dom;

import java.util.ArrayList;
import java.util.List;

import org.aspectj.org.eclipse.jdt.core.compiler.InvalidInputException;
import org.aspectj.org.eclipse.jdt.internal.compiler.classfmt.ClassFileConstants;
import org.aspectj.org.eclipse.jdt.internal.compiler.parser.Scanner;
import org.aspectj.org.eclipse.jdt.internal.compiler.parser.TerminalTokens;

/**
 * AST node for a simple name. A simple name is an identifier other than
 * a keyword, boolean literal ("true", "false") or null literal ("null").
 * <pre>
 * SimpleName:
 *   Identifier
 * </pre>
 *
 * @since 2.0
 * @noinstantiate This class is not intended to be instantiated by clients.
 */
@SuppressWarnings("rawtypes")
public class SimpleName extends Name {

/**
 * The "identifier" structural property of this node type (type: {@link String}).
 *
 * @since 3.0

```

```

*/
public static final SimplePropertyDescriptor IDENTIFIER_PROPERTY =
    new SimplePropertyDescriptor(SimpleName.class, "identifier", String.class, MANDATORY); //$NON-NLS-1$

/**
 * A list of property descriptors (element type:
 * { @link StructuralPropertyDescriptor}),
 * or null if uninitialized.
 * @since 3.0
 */
private static final List PROPERTY_DESCRIPTOR;

static {
    List propertyList = new ArrayList(2);
    createPropertyList(SimpleName.class, propertyList);
    addProperty(IDENTIFIER_PROPERTY, propertyList);
    PROPERTY_DESCRIPTOR = reapPropertyList(propertyList);
}

/**
 * Returns a list of structural property descriptors for this node type.
 * Clients must not modify the result.
 *
 * @param apiLevel the API level; one of the AST.JLS* constants
 * @return a list of property descriptors (element type:
 * { @link StructuralPropertyDescriptor})
 * @since 3.0
 */
public static List propertyDescriptors(int apiLevel) {
    return PROPERTY_DESCRIPTOR;
}

/**
 * An unspecified (but externally observable) legal Java identifier.
 */
private static final String MISSING_IDENTIFIER = "MISSING"; //$NON-NLS-1$

/**
 * The identifier; defaults to a unspecified, legal Java identifier.
 */
private String identifier = MISSING_IDENTIFIER;

/**
 * Creates a new AST node for a simple name owned by the given AST.
 * The new node has an unspecified, legal Java identifier.
 * <p>
 * N.B. This constructor is package-private; all subclasses must be
 * declared in the same package; clients are unable to declare

```

```

* additional subclasses.
* </p>
*
* @param ast the AST that is to own this node
*/
SimpleName(AST ast) {
    super(ast);
}

/* (omit javadoc for this method)
* Method declared on ASTNode.
* @since 3.0
*/
final List internalStructuralPropertiesForType(int apiLevel) {
    return propertyDescriptors(apiLevel);
}

/* (omit javadoc for this method)
* Method declared on ASTNode.
*/
final Object internalGetSetObjectProperty(SimplePropertyDescriptor property, boolean get, Object value) {
    if (property == IDENTIFIER_PROPERTY) {
        if (get) {
            return getIdentifer();
        } else {
            setIdentifer((String) value);
            return null;
        }
    }
    // allow default implementation to flag the error
    return super.internalGetSetObjectProperty(property, get, value);
}

/* (omit javadoc for this method)
* Method declared on ASTNode.
*/
final int getNodeType0() {
    return SIMPLE_NAME;
}

/* (omit javadoc for this method)
* Method declared on ASTNode.
*/
ASTNode clone0(AST target) {
    SimpleName result = new SimpleName(target);
    result.setSourceRange(getStartPosition(), getLength());
    result.setIdentifier(getIdentifier());
    return result;
}

```

```

}

/* (omit javadoc for this method)
 * Method declared on ASTNode.
 */
final boolean subtreeMatch0(ASTMatcher matcher, Object other) {
    // dispatch to correct overloaded match method
    return matcher.match(this, other);
}

/* (omit javadoc for this method)
 * Method declared on ASTNode.
 */
void accept0(ASTVisitor visitor) {
    visitor.visit(this);
    visitor.endVisit(this);
}

/**
 * Returns this node's identifier.
 *
 * @return the identifier of this node
 */
public String getIdentifier() {
    return this.identifier;
}

/**
 * Sets the identifier of this node to the given value.
 * The identifier should be legal according to the rules
 * of the Java language. Note that keywords are not legal
 * identifiers.
 * <p>
 * Note that the list of keywords may depend on the version of the
 * language (determined when the AST object was created).
 * </p>
 *
 * @param identifier the identifier of this node
 * @exception IllegalArgumentException if the identifier is invalid
 */
public void setIdentifier(String identifier) {
    // update internalSetIdentifier if this is changed
    if (identifier == null) {
        throw new IllegalArgumentException();
    }
    Scanner scanner = this.ast.scanner;
    long sourceLevel = scanner.sourceLevel;
    long complianceLevel = scanner.complianceLevel;

```

```

try {
    scanner.sourceLevel = ClassFileConstants.JDK1_3;
    scanner.complianceLevel = ClassFileConstants.JDK1_5;
    char[] source = identifier.toCharArray();
    scanner.setSource(source);
    final int length = source.length;
    scanner.resetTo(0, length - 1);
    try {
        int tokenType = scanner.scanIdentifier();
        if (tokenType != TerminalTokens.TokenNameIdentifier) {
            throw new IllegalArgumentException("Invalid identifier : >" + identifier + "<"); //$NON-NLS-1$//$NON-NLS-2$
        }
        if (scanner.currentPosition != length) {
            // this is the case when there is only one identifier see 87849
            throw new IllegalArgumentException("Invalid identifier : >" + identifier + "<"); //$NON-NLS-1$//$NON-NLS-2$
        }
    } catch (InvalidInputException e) {
        IllegalArgumentException iae = new IllegalArgumentException("Invalid identifier : >" + identifier + "<"); //$NON-NLS-1$//$NON-NLS-2$
        iae.initCause(e);
        throw iae;
    }
} finally {
    this.ast.scanner.sourceLevel = sourceLevel;
    this.ast.scanner.complianceLevel = complianceLevel;
}
preValueChange(IDENTIFIER_PROPERTY);
this.identifier = identifier;
postValueChange(IDENTIFIER_PROPERTY);
}

/* (omit javadoc for this method)
 * This method is a copy of setIdentifier(String) that doesn't do any validation.
 */
void internalSetIdentifier(String ident) {
    preValueChange(IDENTIFIER_PROPERTY);
    this.identifier = ident;
    postValueChange(IDENTIFIER_PROPERTY);
}

/**
 * Returns whether this simple name represents a name that is being defined,
 * as opposed to one being referenced. The following positions are considered
 * ones where a name is defined:
 * <ul>
 * <li>The type name in a <code>TypeDeclaration</code> node.</li>
 * <li>The method name in a <code>MethodDeclaration</code> node

```

- \* providing `isConstructor` is `false`.
- \* - The variable name in any type of `VariableDeclaration` node.
- The enum type name in a `EnumDeclaration` node.
- The enum constant name in an `EnumConstantDeclaration` node.
- The variable name in an `EnhancedForStatement` node.
- The type variable name in a `TypeParameter` node.
- The type name in an `AnnotationTypeDeclaration` node.
- The member name in an `AnnotationTypeMemberDeclaration` node.

\* <p>

\* Note that this is a convenience method that simply checks whether this node appears in the declaration position relative to its parent. It always returns `false` if this node is unparented.

\* </p>

\*

\* @return `true` if this node declares a name, and `false` otherwise

\*/

```
public boolean isDeclaration() {
    StructuralPropertyDescriptor d = getLocationInParent();
    if (d == null) {
        // unparented node
        return false;
    }
    ASTNode parent = getParent();
    if (parent instanceof TypeDeclaration) {
        return (d == TypeDeclaration.NAME_PROPERTY);
    }
    if (parent instanceof MethodDeclaration) {
        MethodDeclaration p = (MethodDeclaration) parent;
        // could be the name of the method or constructor
        return !p.isConstructor() && (d == MethodDeclaration.NAME_PROPERTY);
    }
    if (parent instanceof SingleVariableDeclaration) {
        return (d == SingleVariableDeclaration.NAME_PROPERTY);
    }
    if (parent instanceof VariableDeclarationFragment) {
        return (d == VariableDeclarationFragment.NAME_PROPERTY);
    }
    if (parent instanceof EnumDeclaration) {
        return (d == EnumDeclaration.NAME_PROPERTY);
    }
    if (parent instanceof EnumConstantDeclaration) {
        return (d == EnumConstantDeclaration.NAME_PROPERTY);
    }
}
```



```

    }
    if (parent instanceof TypeParameter) {
        return (d == TypeParameter.NAME_PROPERTY);
    }
    if (parent instanceof AnnotationTypeDeclaration) {
        return (d == AnnotationTypeDeclaration.NAME_PROPERTY);
    }
    if (parent instanceof AnnotationTypeMemberDeclaration) {
        return (d == AnnotationTypeMemberDeclaration.NAME_PROPERTY);
    }
    return false;
}

/* (omit javadoc for this method)
 * Method declared on Name.
 */
void appendName(StringBuffer buffer) {
    buffer.append(getIdentifier());
}

/* (omit javadoc for this method)
 * Method declared on ASTNode.
 */
int memSize() {
    int size = BASE_NAME_NODE_SIZE + 2 * 4;
    if (this.identifier != MISSING_IDENTIFIER) {
        // everything but our missing id costs
        size += stringSize(this.identifier);
    }
    return size;
}

/* (omit javadoc for this method)
 * Method declared on ASTNode.
 */
int treeSize() {
    return memSize();
}
}

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 * are made available under the terms of the Eclipse Public License v1.0
 * which accompanies this distribution, and is available at
 * http://www.eclipse.org/legal/epl-v10.html
 *
 * Contributors:
 *   IBM Corporation - initial API and implementation

```

```

*****/
package org.aspectj.org.eclipse.jdt.core.dom;

/**
 * Descriptor for a simple property of an AST node.
 * A simple property is one whose value is a
 * primitive type (such as <code>int</code> or <code>boolean</code>)
 * or some simple value type (such as <code>String</code> or
 * <code>InfixExpression.Operator</code>).
 *
 * @see org.aspectj.org.eclipse.jdt.core.dom.ASTNode#getStructuralProperty(StructuralPropertyDescriptor)
 * @see org.aspectj.org.eclipse.jdt.core.dom.ASTNode#setStructuralProperty(StructuralPropertyDescriptor, Object)
 * @since 3.0
 * @noinstantiate This class is not intended to be instantiated by clients.
 */
@SuppressWarnings("rawtypes")
public final class SimplePropertyDescriptor extends StructuralPropertyDescriptor {

    /**
     * Value type. For example, for a node type like
     * SingleVariableDeclaration, the modifiers property is int.class
     */
    private final Class valueType;

    /**
     * Indicates whether a value is mandatory. A property value is allowed
     * to be <code>null</code> only if it is not mandatory.
     */
    private final boolean mandatory;

    /**
     * Creates a new simple property descriptor with the given property id.
     * Note that this constructor is declared package-private so that
     * property descriptors can only be created by the AST
     * implementation.
     *
     * @param nodeClass concrete AST node type that owns this property
     * @param propertyId the property id
     * @param valueType the value type of this property
     * @param mandatory <code>true</code> if the property is mandatory,
     * and <code>false</code> if it is may be <code>null</code>
     */
    SimplePropertyDescriptor(Class nodeClass, String propertyId, Class valueType, boolean mandatory) {
        super(nodeClass, propertyId);
        if (valueType == null || ASTNode.class.isAssignableFrom(valueType)) {
            throw new IllegalArgumentException();
        }
        this.valueType = valueType;
    }
}

```

```

this.mandatory = mandatory;
}

/**
 * Returns the value type of this property.
 * <p>
 * For example, for a node type like SingleVariableDeclaration,
 * the "modifiers" property returns <code>int.class</code>.
 * </p>
 *
 * @return the value type of the property
 */
public Class getValueType() {
    return this.valueType;
}

/**
 * Returns whether this property is mandatory. A property value
 * is not allowed to be <code>null</code> if it is mandatory.
 *
 * @return <code>true</code> if the property is mandatory,
 * and <code>false</code> if it is may be <code>null</code>
 */
public boolean isMandatory() {
    return this.mandatory;
}
}

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 * are made available under the terms of the Eclipse Public License v1.0
 * which accompanies this distribution, and is available at
 * http://www.eclipse.org/legal/epl-v10.html
 *
 * Contributors:
 *   IBM Corporation - initial API and implementation
 *****/

package org.aspectj.org.eclipse.jdt.core.dom;

import java.util.ArrayList;
import java.util.List;

/**
 * Type node for a named class type, a named interface type, or a type variable.
 * <pre>
 * SimpleType:
 *   { Annotation } TypeName

```

```

* </pre>
* <p>
* This kind of node is used to convert a name ({ @link Name }) into a type
* ({ @link Type }) by wrapping it.
* </p>
*
* In JLS8 and later, the SimpleType may have optional annotations.
* If annotations are present, then the name must be a { @link SimpleName}.
* Annotated qualified names are represented as { @link QualifiedType } or { @link NameQualifiedType }.
*
* @see QualifiedType
* @see NameQualifiedType
*
* @since 2.0
* @noinstantiate This class is not intended to be instantiated by clients.
*/
@SuppressWarnings("rawtypes")
public class SimpleType extends AnnotatableType {

/**
 * The "annotations" structural property of this node type (element type: { @link Annotation}).
 * @since 3.10
 */
public static final ChildListPropertyDescriptor ANNOTATIONS_PROPERTY =
    internalAnnotationsPropertyFactory(SimpleType.class);

/**
 * The "name" structural property of this node type (child type: { @link Name}).
 * @since 3.0
 */
public static final ChildPropertyDescriptor NAME_PROPERTY =
    new ChildPropertyDescriptor(SimpleType.class, "name", Name.class, MANDATORY, NO_CYCLE_RISK);
//$NON-NLS-1$

/**
 * A list of property descriptors (element type:
 * { @link StructuralPropertyDescriptor}),
 * or null if uninitialized.
 */
private static final List PROPERTY_DESCRIPTOR;

/**
 * A list of property descriptors (element type:
 * { @link StructuralPropertyDescriptor}),
 * or null if uninitialized.
 * @since 3.10
 */
private static final List PROPERTY_DESCRIPTOR_8_0;

```

```

static {
    List propertyList = new ArrayList(2);
    createPropertyList(SimpleType.class, propertyList);
    addProperty(NAME_PROPERTY, propertyList);
    PROPERTY_DESCRIPTOR = reapPropertyList(propertyList);

    propertyList = new ArrayList(3);
    createPropertyList(SimpleType.class, propertyList);
    addProperty(ANNOTATIONS_PROPERTY, propertyList);
    addProperty(NAME_PROPERTY, propertyList);
    PROPERTY_DESCRIPTOR_8_0 = reapPropertyList(propertyList);
}

/**
 * Returns a list of structural property descriptors for this node type.
 * Clients must not modify the result.
 *
 * @param apiLevel the API level; one of the
 * <code>AST.JLS*</code> constants
 * @return a list of property descriptors (element type:
 * { @link StructuralPropertyDescriptor})
 * @since 3.0
 */
public static List propertyDescriptors(int apiLevel) {
    switch (apiLevel) {
        case AST.JLS2_INTERNAL :
        case AST.JLS3_INTERNAL :
        case AST.JLS4_INTERNAL:
            return PROPERTY_DESCRIPTOR;
        default :
            return PROPERTY_DESCRIPTOR_8_0;
    }
}

/**
 * The type name node; lazily initialized; defaults to a type with
 * an unspecified, but legal, name.
 */
private Name typeName = null;

/**
 * Creates a new unparented node for a simple type owned by the given AST.
 * By default, an unspecified, but legal, name.
 * <p>
 * N.B. This constructor is package-private.
 * </p>
 *
 * @param ast the AST that is to own this node

```

```

*/
SimpleType(AST ast) {
    super(ast);
}

/* (omit javadoc for this method)
 * Method declared on AnnotatableType.
 * @since 3.10
 */
final ChildListPropertyDescriptor internalAnnotationsProperty() {
    return ANNOTATIONS_PROPERTY;
}

/* (omit javadoc for this method)
 * Method declared on ASTNode.
 */
final List internalStructuralPropertiesForType(int apiLevel) {
    return propertyDescriptors(apiLevel);
}

/* (omit javadoc for this method)
 * Method declared on ASTNode.
 */
final List internalGetChildListProperty(ChildListPropertyDescriptor property) {
    if (property == ANNOTATIONS_PROPERTY) {
        return annotations();
    }
    // allow default implementation to flag the error
    return super.internalGetChildListProperty(property);
}

/* (omit javadoc for this method)
 * Method declared on ASTNode.
 */
final ASTNode internalGetSetChildProperty(ChildPropertyDescriptor property, boolean get, ASTNode child) {
    if (property == NAME_PROPERTY) {
        if (get) {
            return getName();
        } else {
            setName((Name) child);
            return null;
        }
    }
    // allow default implementation to flag the error
    return super.internalGetSetChildProperty(property, get, child);
}

/* (omit javadoc for this method)

```

```

* Method declared on ASTNode.
*/
final int getNodeTypeId() {
    return SIMPLE_TYPE;
}

/* (omit javadoc for this method)
* Method declared on ASTNode.
*/
ASTNode clone(AST target) {
    SimpleType result = new SimpleType(target);
    result.setSourceRange(getStartPosition(), getLength());
    if (this.ast.apiLevel >= AST.JLS8) {
        result.annotations().addAll(
            ASTNode.copySubtrees(target, annotations()));
    }
    result.setName((Name) (getName()).clone(target));
    return result;
}

/* (omit javadoc for this method)
* Method declared on ASTNode.
*/
final boolean subtreeMatch(ASTMatcher matcher, Object other) {
    // dispatch to correct overloaded match method
    return matcher.match(this, other);
}

/* (omit javadoc for this method)
* Method declared on ASTNode.
*/
void accept(ASTVisitor visitor) {
    boolean visitChildren = visitor.visit(this);
    if (visitChildren) {
        // visit children in normal left to right reading order
        if (this.ast.apiLevel >= AST.JLS8) {
            acceptChildren(visitor, this.annotations());
        }
        acceptChild(visitor, getName());
    }
    visitor.endVisit(this);
}

/**
* Returns the name of this simple type.
*
* @return the name of this simple type
*/

```

```

public Name getName() {
    if (this.typeName == null) {
        // lazy init must be thread-safe for readers
        synchronized (this) {
            if (this.typeName == null) {
                preLazyInit();
                this.typeName = new SimpleName(this.ast);
                postLazyInit(this.typeName, NAME_PROPERTY);
            }
        }
    }
    return this.typeName;
}

/**
 * Sets the name of this simple type to the given name.
 *
 * @param typeName the new name of this simple type
 * @exception IllegalArgumentException if:
 * <ul>
 * <li>the node belongs to a different AST</li>
 * <li>the node already has a parent</li>
 * </ul>
 */
public void setName(Name typeName) {
    if (typeName == null) {
        throw new IllegalArgumentException();
    }
    ASTNode oldChild = this.typeName;
    preReplaceChild(oldChild, typeName, NAME_PROPERTY);
    this.typeName = typeName;
    postReplaceChild(oldChild, typeName, NAME_PROPERTY);
}

/* (omit javadoc for this method)
 * Method declared on ASTNode.
 */
int memSize() {
    // treat Code as free
    return BASE_NODE_SIZE + 2 * 4;
}

/* (omit javadoc for this method)
 * Method declared on ASTNode.
 */
int treeSize() {
    return
        memSize()

```



```

+ (this.annotations == null ? 0 : this.annotations.listSize())
+ (this.typeName == null ? 0 : getName().treeSize());
}
}
/*****
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* All rights reserved. This program and the accompanying materials
* are made available under the terms of the Eclipse Public License v1.0
* which accompanies this distribution, and is available at
* http://www.eclipse.org/legal/epl-v10.html
*
* Contributors:
*   Ben Konrath <ben@bagu.org> - initial implementation
*   Red Hat Incorporated - improvements based on comments from JDT developers
*   IBM Corporation - Code review and integration
*   IBM Corporation - Fix for 340181
*****/
package org.aspectj.org.eclipse.jdt.core.formatter;

import java.io.BufferedInputStream;
import java.io.BufferedWriter;
import java.io.File;
import java.io.FileInputStream;
import java.io.FileWriter;
import java.io.IOException;
import java.text.MessageFormat;
import java.util.ArrayList;
import java.util.Map;
import java.util.Properties;

import org.eclipse.equinox.app.IApplication;
import org.eclipse.equinox.app.IApplicationContext;
import org.aspectj.org.eclipse.jdt.core.ToolFactory;
import org.aspectj.org.eclipse.jdt.internal.core.util.Util;
import org.eclipse.jface.text.BadLocationException;
import org.eclipse.jface.text.Document;
import org.eclipse.jface.text.IDocument;
import org.eclipse.osgi.util.NLS;
import org.eclipse.text.edits.TextEdit;

/**
 * Implements an Eclipse Application for org.aspectj.org.eclipse.jdt.core.JavaCodeFormatter.
 *
 * <p>On MacOS, when invoked using the Eclipse executable, the "user.dir" property is set to the folder
 * in which the eclipse.ini file is located. This makes it harder to use relative paths to point to the
 * files to be formatted or the configuration file to use to set the code formatter's options.</p>
 *
 * <p>There are a couple improvements that could be made: 1. Make a list of all the

```

```

* files first so that a file does not get formatted twice. 2. Use a text based
* progress monitor for output.</p>
*
* @author Ben Konrath <bkonrath@redhat.com>
* @since 3.2
* @noinstantiate This class is not intended to be instantiated by clients.
* @noextend This class is not intended to be subclassed by clients.
*/
@SuppressWarnings({"rawtypes", "unchecked"})
public class CodeFormatterApplication implements IApplication {

/**
 * Deals with the messages in the properties file (cut n' pasted from a
 * generated class).
 */
private final static class Messages extends NLS {
private static final String BUNDLE_NAME = "org.aspectj.org.eclipse.jdt.core.formatter.messages";//$NON-NLS-
1$

public static String CommandLineConfigFile;

public static String CommandLineDone;

public static String CommandLineErrorConfig;

public static String CommandLineErrorFileTryFullPath;

public static String CommandLineErrorFile;

public static String CommandLineErrorFileDir;

public static String CommandLineErrorQuietVerbose;

public static String CommandLineErrorNoConfigFile;

public static String CommandLineFormatting;

public static String CommandLineStart;

public static String CommandLineUsage;

public static String ConfigFileNotFoundErrorTryFullPath;

public static String ConfigFileReadingError;

public static String FormatProblem;

public static String CaughtException;

```

```

public static String ExceptionSkip;

static {
    NLS.initializeMessages(BUNDLE_NAME, Messages.class);
}

/**
 * Bind the given message's substitution locations with the given string
 * values.
 *
 * @param message
 *         the message to be manipulated
 * @return the manipulated String
 */
public static String bind(String message) {
    return bind(message, null);
}

/**
 * Bind the given message's substitution locations with the given string
 * values.
 *
 * @param message
 *         the message to be manipulated
 * @param binding
 *         the object to be inserted into the message
 * @return the manipulated String
 */
public static String bind(String message, Object binding) {
    return bind(message, new Object[] {
        binding
    });
}

/**
 * Bind the given message's substitution locations with the given string
 * values.
 *
 * @param message
 *         the message to be manipulated
 * @param binding1
 *         An object to be inserted into the message
 * @param binding2
 *         A second object to be inserted into the message
 * @return the manipulated String
 */
public static String bind(String message, Object binding1, Object binding2) {

```

```

return bind(message, new Object[] {
    binding1, binding2
});
}

/**
 * Bind the given message's substitution locations with the given string
 * values.
 *
 * @param message
 *         the message to be manipulated
 * @param bindings
 *         An array of objects to be inserted into the message
 * @return the manipulated String
 */
public static String bind(String message, Object[] bindings) {
    return MessageFormat.format(message, bindings);
}
}

private static final String ARG_CONFIG = "-config"; //$NON-NLS-1$

private static final String ARG_HELP = "-help"; //$NON-NLS-1$

private static final String ARG_QUIET = "-quiet"; //$NON-NLS-1$

private static final String ARG_VERBOSE = "-verbose"; //$NON-NLS-1$

private String configName;

private Map options = null;

private static final String PDE_LAUNCH = "-pdelaunch"; //$NON-NLS-1$

private boolean quiet = false;

private boolean verbose = false;

/**
 * Display the command line usage message.
 */
private void displayHelp() {
    System.out.println(Messages.bind(Messages.CommandLineUsage));
}

private void displayHelp(String message) {
    System.err.println(message);
    System.out.println();
}

```

```

displayHelp();
}

/**
 * Recursively format the Java source code that is contained in the
 * directory rooted at dir.
 */
private void formatDirTree(File dir, CodeFormatter codeFormatter) {

    File[] files = dir.listFiles();
    if (files == null)
        return;

    for (int i = 0; i < files.length; i++) {
        File file = files[i];
        if (file.isDirectory()) {
            formatDirTree(file, codeFormatter);
        } else if (Util.isJavaLikeFileName(file.getPath())) {
            formatFile(file, codeFormatter);
        }
    }
}

/**
 * Format the given Java source file.
 */
private void formatFile(File file, CodeFormatter codeFormatter) {
    IDocument doc = new Document();
    try {
        // read the file
        if (this.verbose) {
            System.out.println(Messages.bind(Messages.CommandLineFormatting, file.getAbsolutePath()));
        }
        String contents = new String(org.aspectj.org.eclipse.jdt.internal.compiler.util.Util.getFileCharContent(file, null));
        // format the file (the meat and potatoes)
        doc.set(contents);
        TextEdit edit = codeFormatter.format(CodeFormatter.K_COMPILATION_UNIT |
CodeFormatter.F_INCLUDE_COMMENTS, contents, 0, contents.length(), 0, null);
        if (edit != null) {
            edit.apply(doc);
        } else {
            System.err.println(Messages.bind(Messages.FormatProblem, file.getAbsolutePath()));
        }
        return;
    }

    // write the file
    final BufferedWriter out = new BufferedWriter(new FileWriter(file));
    try {

```

```

    out.write(doc.get());
    out.flush();
} finally {
    try {
        out.close();
    } catch (IOException e) {
        /* ignore */
    }
}
} catch (IOException e) {
    String errorMessage = Messages.bind(Messages.CaughtException, "IOException", e.getLocalizedMessage());
//$NON-NLS-1$
    Util.log(e, errorMessage);
    System.err.println(Messages.bind(Messages.ExceptionSkip ,errorMessage));
} catch (BadLocationException e) {
    String errorMessage = Messages.bind(Messages.CaughtException, "BadLocationException",
e.getLocalizedMessage()); //$NON-NLS-1$
    Util.log(e, errorMessage);
    System.err.println(Messages.bind(Messages.ExceptionSkip ,errorMessage));
}
}
}

```

```

private File[] processCommandLine(String[] argsArray) {

```

```

    ArrayList args = new ArrayList();
    for (int i = 0, max = argsArray.length; i < max; i++) {
        args.add(argsArray[i]);
    }

```

```

    int index = 0;
    final int argCount = argsArray.length;

```

```

    final int DEFAULT_MODE = 0;
    final int CONFIG_MODE = 1;

```

```

    int mode = DEFAULT_MODE;
    final int INITIAL_SIZE = 1;
    int fileCounter = 0;

```

```

    File[] filesToFormat = new File[INITIAL_SIZE];

```

```

    loop: while (index < argCount) {
        String currentArg = argsArray[index++];

```

```

        switch(mode) {
            case DEFAULT_MODE :
                if (PDE_LAUNCH.equals(currentArg)) {
                    continue loop;
                }

```

```

if (ARG_HELP.equals(currentArg)) {
    displayHelp();
    return null;
}
if (ARG_VERBOSE.equals(currentArg)) {
    this.verbose = true;
    continue loop;
}
if (ARG_QUIET.equals(currentArg)) {
    this.quiet = true;
    continue loop;
}
if (ARG_CONFIG.equals(currentArg)) {
    mode = CONFIG_MODE;
    continue loop;
}
// the current arg should be a file or a directory name
File file = new File(currentArg);
if (file.exists()) {
    if (filesToFormat.length == fileCounter) {
        System.arraycopy(filesToFormat, 0, (filesToFormat = new File[fileCounter * 2]), 0, fileCounter);
    }
    filesToFormat[fileCounter++] = file;
} else {
    String canonicalPath;
    try {
        canonicalPath = file.getCanonicalPath();
    } catch (IOException e2) {
        canonicalPath = file.getAbsolutePath();
    }
    String errorMsg = file.isAbsolute()?
        Messages.bind(Messages.CommandLineErrorFile, canonicalPath):
        Messages.bind(Messages.CommandLineErrorFileTryFullPath, canonicalPath);
    displayHelp(errorMsg);
    return null;
}
break;
case CONFIG_MODE :
    this.configName = currentArg;
    this.options = readConfig(currentArg);
    if (this.options == null) {
        displayHelp(Messages.bind(Messages.CommandLineErrorConfig, currentArg));
        return null;
    }
    mode = DEFAULT_MODE;
    continue loop;
}
}

```

```

if (mode == CONFIG_MODE || this.options == null) {
    displayHelp(Messages.bind(Messages.CommandLineErrorNoConfigFile));
    return null;
}
if (this.quiet && this.verbose) {
    displayHelp(
        Messages.bind(
            Messages.CommandLineErrorQuietVerbose,
            new String[] { ARG_QUIET, ARG_VERBOSE }
        ));
    return null;
}
if (fileCounter == 0) {
    displayHelp(Messages.bind(Messages.CommandLineErrorFileDir));
    return null;
}
if (filesToFormat.length != fileCounter) {
    System.arraycopy(filesToFormat, 0, (filesToFormat = new File[fileCounter]), 0, fileCounter);
}
return filesToFormat;
}

/**
 * Return a Java Properties file representing the options that are in the
 * specified configuration file.
 */
private Properties readConfig(String filename) {
    BufferedInputStream stream = null;
    File configFile = new File(filename);
    try {
        stream = new BufferedInputStream(new FileInputStream(configFile));
        final Properties formatterOptions = new Properties();
        formatterOptions.load(stream);
        return formatterOptions;
    } catch (IOException e) {
        String canonicalPath = null;
        try {
            canonicalPath = configFile.getCanonicalPath();
        } catch (IOException e2) {
            canonicalPath = configFile.getAbsolutePath();
        }
        String errorMessage;
        if (!configFile.exists() && !configFile.isAbsolute()) {
            errorMessage = Messages.bind(Messages.ConfigFileNotFoundErrorTryFullPath, new Object[] {
                canonicalPath,
                System.getProperty("user.dir") //$NON-NLS-1$
            });
        }
    }
}

```



```

    } else {
        errorMessage = Messages.bind(Messages.ConfigFileReadingError, canonicalPath);
    }
    Util.log(e, errorMessage);
    System.err.println(errorMessage);
} finally {
    if (stream != null) {
        try {
            stream.close();
        } catch (IOException e) {
            /* ignore */
        }
    }
}
return null;
}

/**
 * Runs the Java code formatter application
 */
public Object start(IApplicationContext context) throws Exception {
    File[] filesToFormat = processCommandLine((String[])
context.getArguments().get(IApplicationContext.APPLICATION_ARGS));

    if (filesToFormat == null) {
        return IApplication.EXIT_OK;
    }

    if (!this.quiet) {
        if (this.configName != null) {
            System.out.println(Messages.bind(Messages.CommandLineConfigFile, this.configName));
        }
        System.out.println(Messages.bind(Messages.CommandLineStart));
    }

    final CodeFormatter codeFormatter = ToolFactory.createCodeFormatter(this.options);
    // format the list of files and/or directories
    for (int i = 0, max = filesToFormat.length; i < max; i++) {
        final File file = filesToFormat[i];
        if (file.isDirectory()) {
            formatDirTree(file, codeFormatter);
        } else if (Util.isJavaLikeFileName(file.getPath())) {
            formatFile(file, codeFormatter);
        }
    }
    if (!this.quiet) {
        System.out.println(Messages.bind(Messages.CommandLineDone));
    }
}

```

```

    }

    return IApplication.EXIT_OK;
}
public void stop() {
    // do nothing
}
}
}
/*****
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 * which accompanies this distribution, and is available at
 * http://www.eclipse.org/legal/epl-v10.html
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 *****/
package org.aspectj.org.eclipse.jdt.core.index;

import java.io.File;
import java.io.IOException;
import java.text.MessageFormat;
import java.util.ArrayList;

import org.eclipse.equinox.app.IApplication;
import org.eclipse.equinox.app.IApplicationContext;
import org.eclipse.osgi.util.NLS;

/**
 * Implements an Eclipse Application for { @link org.aspectj.org.eclipse.jdt.core.index.JavaIndexer }.
 *
 * <p>
 * On MacOS, when invoked using the Eclipse executable, the "user.dir" property is set to the folder in which the
 * eclipse.ini file is located. This makes it harder to use relative paths to point to the files to be jar'd or to
 * the index file that is generated.
 * </p>
 *
 * @since 3.8
 * @noinstantiate This class is not intended to be instantiated by clients.
 * @noextend This class is not intended to be subclassed by clients.
 */
@SuppressWarnings({"rawtypes", "unchecked"})
public class JavaIndexerApplication implements IApplication {

    private final static class Messages extends NLS {
        private static final String MESSAGES_NAME = "org.aspectj.org.eclipse.jdt.core.index.messages"; //$NON-NLS-1$
    }

```

```

public static String CommandLineProcessing;
public static String CommandLineUsage;
public static String CommandLineOnlyOneOutputError;
public static String CommandLineOutputTakesArgs;
public static String CommandLineOnlyOneJarError;
public static String CommandLineJarNotSpecified;
public static String CommandLineIndexFileNotSpecified;
public static String CaughtException;
public static String CommandLineJarFileNotExist;

static {
    NLS.initializeMessages(MESSAGES_NAME, Messages.class);
}

public static String bind(String message) {
    return bind(message, null);
}

public static String bind(String message, Object binding) {
    return bind(message, new Object[] { binding });
}

public static String bind(String message, Object binding1, Object binding2) {
    return bind(message, new Object[] { binding1, binding2 });
}

public static String bind(String message, Object[] bindings) {
    return MessageFormat.format(message, bindings);
}

private String jarToIndex;
private String indexFile;
private boolean verbose = false;
private static final String PDE_LAUNCH = "-pdelaunch"; //$NON-NLS-1$
private static final String ARG_HELP = "-help"; //$NON-NLS-1$
private static final String ARG_VERBOSE = "-verbose"; //$NON-NLS-1$
private static final String ARG_OUTPUT = "-output"; //$NON-NLS-1$

private void displayHelp() {
    System.out.println(Messages.bind(Messages.CommandLineUsage));
}

private void displayError(String message) {
    System.out.println(message);
    System.out.println();
    displayHelp();
}

```

```

}

private boolean processCommandLine(String[] argsArray) {
    ArrayList args = new ArrayList();
    for (int i = 0, max = argsArray.length; i < max; i++) {
        args.add(argsArray[i]);
    }
    int index = 0;
    final int argCount = argsArray.length;

    loop: while (index < argCount) {
        String currentArg = argsArray[index++];
        if (PDE_LAUNCH.equals(currentArg)) {
            continue loop;
        } else if (ARG_HELP.equals(currentArg)) {
            displayHelp();
            return false;
        } else if (ARG_VERBOSE.equals(currentArg)) {
            this.verbose = true;
            continue loop;
        } else if (ARG_OUTPUT.equals(currentArg)) {
            if (this.indexFile != null) {
                displayError(Messages.bind(Messages.CommandLineOnlyOneOutputError));
                return false;
            } else if (index == argCount) {
                displayError(Messages.bind(Messages.CommandLineOutputTakesArgs));
                return false;
            }
            this.indexFile = argsArray[index++];
        } else {
            if (this.jarToIndex != null) {
                displayError(Messages.bind(Messages.CommandLineOnlyOneJarError));
                return false;
            }
            this.jarToIndex = currentArg;
        }
    }
    return true;
}

public Object start(IApplicationContext context) throws Exception {
    boolean execute = processCommandLine((String[])
context.getArguments().get(IApplicationContext.APPLICATION_ARGS));
    if (execute) {
        if (this.jarToIndex != null && this.indexFile != null) {
            File f = new File(this.jarToIndex);
            if (f.exists()) {
                if (this.verbose) {

```

```

        System.out.println(Messages.bind(Messages.CommandLineProcessing, this.indexFile, this.jarToIndex));
    }
    try {
        JavaIndexer.generateIndexForJar(this.jarToIndex, this.indexFile);
    } catch (IOException e) {
        System.out.println(Messages.bind(Messages.CaughtException, "IOException", e.getLocalizedMessage())); //$NON-
NLS-1$
    }
    } else {
        System.out.println(Messages.bind(Messages.CommandLineJarFileNotExist, this.jarToIndex));
    }
    } else if (this.jarToIndex == null) {
        System.out.println(Messages.bind(Messages.CommandLineJarNotSpecified));
    } else if (this.indexFile == null) {
        System.out.println(Messages.bind(Messages.CommandLineIndexFileNotSpecified));
    }
    }
    return IApplication.EXIT_OK;
}

public void stop() {
    // do nothing
}

}

```

## 1.73 AspectJ weaver 1.6.5

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## 1.74 AspectJ weaver 1.8.4

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# 1.75 aspectjrt 1.8.4

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## 1.76 aspectjrt 1.6.5

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## 1.80 avalon-framework-api 4.3.1

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## 1.82 Axiom API 1.2.7

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(8.6.10+cwru/CWRU-2.1-ins)
id KAA22876; Wed, 10 May 1995 10:21:10 -0400 (from spcedt@armory.com for <chet@odin.INS.CWRU.Edu>)
Received: from deepthought.armory.com (mmdf@deepthought.armory.com [192.122.209.42]) by po.cwru.edu with

```

SMTP (8.6.10+cwru/CWRU-2.3)  
id BAA16354; Wed, 10 May 1995 01:33:22 -0400 (from spcedt@armory.com for <chet@po.cwru.edu>)  
From: John DuBois <spcedt@armory.com>  
Date: Tue, 9 May 1995 22:33:12 -0700  
In-Reply-To: Chet Ramey <chet@odin.ins.cwru.edu>  
"ksh scripts" (May 9, 1:36pm)  
X-Www: http://www.armory.com/~spcedt/  
X-Mailer: Mail User's Shell (7.2.5 10/14/92)  
To: chet@po.cwru.edu  
Subject: Re: ksh scripts  
Message-ID: <9505092233.aa13001@deephought.armory.com>

Sure. The canonical versions are available on ftp.armory.com; you might want to pick up the latest versions before modifying them.

John

On May 9, 1:36pm, Chet Ramey wrote:

```
} Subject: ksh scripts
} From odin.ins.cwru.edu!chet Tue May 9 10:39:51 1995
} Received: from odin.INS.CWRU.Edu by deepthought.armory.com id aa22336;
} 9 May 95 10:39 PDT
} Received: (chet@localhost) by odin.INS.CWRU.Edu (8.6.10+cwru/CWRU-2.1-ins)
} id NAA20487; Tue, 9 May 1995 13:39:24 -0400 (from chet)
} Date: Tue, 9 May 1995 13:36:54 -0400
} From: Chet Ramey <chet@odin.ins.cwru.edu>
} To: john@armory.com
} Subject: ksh scripts
} Cc: chet@odin.ins.cwru.edu
} Reply-To: chet@po.cwru.edu
} Message-ID: <9505091736.AA20411.SM@odin.INS.CWRU.Edu>
} Read-Receipt-To: chet@po.CWRU.Edu
} MIME-Version: 1.0
} Content-Type: text/plain; charset=us-ascii
} Status: OR
}
} Hi. I'm the maintainer of bash (the GNU `Bourne Again shell') for
} the FSF.
}
} I picked up a tar file of ksh scripts you wrote from an anon FTP site
} a while back. I'd like your permission to include modified versions
} of some of them in the next major bash distribution (with proper credit
} given, of course). Is it OK if I do that?
}
} Chet Ramey
}
} --
} ``The lyf so short, the craft so long to lerne." - Chaucer
```

}  
} Chet Ramey, Case Western Reserve University Internet: chet@po.CWRU.Edu  
}-- End of excerpt from Chet Ramey  
From mikel@ora.com Tue Aug 1 12:13:20 1995  
Flags: 10  
Return-Path: mikel@ora.com  
Received: from ruby.ora.com (ruby.ora.com [198.112.208.25]) by odin.INS.CWRU.Edu with ESMTP  
(8.6.12+cwru/CWRU-2.1-ins)  
id MAA01565; Tue, 1 Aug 1995 12:13:18 -0400 (from mikel@ora.com for <chet@odin.INS.CWRU.Edu>)  
Received: (from fax@localhost) by ruby.ora.com (8.6.12/8.6.11) with UUCP id MAA23251; Tue, 1 Aug 1995  
12:07:51 -0400  
Received: by los.ora.com (4.1/Spike-2.1)  
id AA00672; Tue, 1 Aug 95 08:57:32 EDT  
Date: Tue, 1 Aug 95 08:57:32 EDT  
From: mikel@ora.com (Michael Loukides)  
Message-Id: <9508011257.AA00672@los.ora.com>  
Subject: Re: Ksh debugger from Rosenblatt's book [for bash]  
To: Chet Ramey <chet@odin.INS.CWRU.Edu>  
Cc: cmarie@ora.com, cam@inet.com.au, brosenblatt@tm.com  
In-Reply-To: Chet Ramey <chet@odin.INS.CWRU.Edu>, Mon, 31 Jul 1995 16:22:48 -0400

I've modified a (modified) version of Bill Rosenblatt's ksh debugger  
to work with bash-2.0. Does ORA have any problem with me distributing  
it with bash-2.0?

That's great!

Go ahead and circulate it; in fact, we should probably grab it and  
stick it in our ftp archive, and put a reference to it in the book.  
(Too late to actually discuss the thing, at least for this edition).

-----

From friedman@cli.com Thu May 25 12:19:06 1995  
Flags: 10  
Return-Path: friedman@cli.com  
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP  
(8.6.10+cwru/CWRU-2.1-ins)  
id MAA08685; Thu, 25 May 1995 12:19:05 -0400 (from friedman@cli.com for <chet@odin.INS.CWRU.Edu>)  
Received: from cli.com (cli.com [192.31.85.1]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)  
id MAA11299; Thu, 25 May 1995 12:19:00 -0400 (from friedman@cli.com for <chet@po.cwru.edu>)  
Received: from tepui.cli.com by cli.com (4.1/SMI-4.1)  
id AA27213; Thu, 25 May 95 11:18:25 CDT  
Received: by tepui.cli.com (4.1) id AA16031; Thu, 25 May 95 11:18:23 CDT  
Message-Id: <9505251618.AA16031@tepui.cli.com>  
From: friedman@gnu.ai.mit.edu (Noah Friedman)  
To: chet@po.cwru.edu  
Subject: Bash scripts  
Reply-To: friedman@gnu.ai.mit.edu  
In-Reply-To: <chet@odin.ins.cwru.edu> Thu, 25 May 1995 11:19:59 -0400

References: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>

Date: Thu, 25 May 95 11:18:21 CST

>Hi. I snagged some of your bash functions from your home directory on  
>the FSF machines (naughty, I know), and I was wondering if you'd let  
>me distribute them with bash-2.0. Thanks.

Sure. I think there's a later copy in  
~ftp/friedman/shell-inits/init-4.89.tar.gz. There are also some elisp and  
es frobs in that file.

It should serve as a pretty good example of how to get carried away. :-)

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From mikel@ora.com Tue Aug 1 12:13:20 1995

Flags: 10

Return-Path: mikel@ora.com

Received: from ruby.ora.com (ruby.ora.com [198.112.208.25]) by odin.INS.CWRU.Edu with ESMTTP  
(8.6.12+cwru/CWRU-2.1-ins)

id MAA01565; Tue, 1 Aug 1995 12:13:18 -0400 (from mikel@ora.com for <chet@odin.INS.CWRU.Edu>)

Received: (from fax@localhost) by ruby.ora.com (8.6.12/8.6.11) with UUCP id MAA23251; Tue, 1 Aug 1995  
12:07:51 -0400

Received: by los.ora.com (4.1/Spike-2.1)

id AA00672; Tue, 1 Aug 95 08:57:32 EDT

Date: Tue, 1 Aug 95 08:57:32 EDT

From: mikel@ora.com (Michael Loukides)

Message-Id: <9508011257.AA00672@los.ora.com>

Subject: Re: Ksh debugger from Rosenblatt's book [for bash]

To: Chet Ramey <chet@odin.INS.CWRU.Edu>

Cc: cmarie@ora.com, cam@iinet.com.au, brosenblatt@tm.com

In-Reply-To: Chet Ramey <chet@odin.INS.CWRU.Edu>, Mon, 31 Jul 1995 16:22:48 -0400

I've modified a (modified) version of Bill Rosenblatt's ksh debugger  
to work with bash-2.0. Does ORA have any problem with me distributing  
it with bash-2.0?

That's great!

Go ahead and circulate it; in fact, we should probably grab it and  
stick it in our ftp archive, and put a reference to it in the book.  
(Too late to actually discuss the thing, at least for this edition).

-----

From spcedt@armory.com Wed May 10 10:21:11 1995

Flags: 10

Return-Path: spcedt@armory.com

Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTTP  
(8.6.10+cwru/CWRU-2.1-ins)

id KAA22876; Wed, 10 May 1995 10:21:10 -0400 (from spcedt@armory.com for <chet@odin.INS.CWRU.Edu>)

Received: from deepthought.armory.com (mmdf@deepthought.armory.com [192.122.209.42]) by po.cwru.edu with  
SMTP (8.6.10+cwru/CWRU-2.3)

id BAA16354; Wed, 10 May 1995 01:33:22 -0400 (from spcedt@armory.com for <chet@po.cwru.edu>)

From: John DuBois <spcedt@armory.com>

Date: Tue, 9 May 1995 22:33:12 -0700

In-Reply-To: Chet Ramey <chet@odin.ins.cwru.edu>

"ksh scripts" (May 9, 1:36pm)

X-Www: <http://www.armory.com/~spcedt/>

X-Mailer: Mail User's Shell (7.2.5 10/14/92)

To: chet@po.cwru.edu

Subject: Re: ksh scripts

Message-ID: <9505092233.aa13001@deepthought.armory.com>

Sure. The canonical versions are available on ftp.armory.com; you might want to pick up the latest versions before modifying them.

John

On May 9, 1:36pm, Chet Ramey wrote:

```
} Subject: ksh scripts
} From odin.ins.cwru.edu!chet Tue May 9 10:39:51 1995
} Received: from odin.INS.CWRU.Edu by deepthought.armory.com id aa22336;
} 9 May 95 10:39 PDT
} Received: (chet@localhost) by odin.INS.CWRU.Edu (8.6.10+cwru/CWRU-2.1-ins)
} id NAA20487; Tue, 9 May 1995 13:39:24 -0400 (from chet)
} Date: Tue, 9 May 1995 13:36:54 -0400
} From: Chet Ramey <chet@odin.ins.cwru.edu>
} To: john@armory.com
} Subject: ksh scripts
} Cc: chet@odin.ins.cwru.edu
} Reply-To: chet@po.cwru.edu
} Message-ID: <9505091736.AA20411.SM@odin.INS.CWRU.Edu>
} Read-Receipt-To: chet@po.CWRU.Edu
} MIME-Version: 1.0
} Content-Type: text/plain; charset=us-ascii
} Status: OR
}
```

```
} Hi. I'm the maintainer of bash (the GNU `Bourne Again shell') for
} the FSF.
```

```
} I picked up a tar file of ksh scripts you wrote from an anon FTP site
} a while back. I'd like your permission to include modified versions
} of some of them in the next major bash distribution (with proper credit
} given, of course). Is it OK if I do that?
```

```
} Chet Ramey
```

```
} --
```

```
} ``The lyf so short, the craft so long to lerne." - Chaucer
```

```
} Chet Ramey, Case Western Reserve University Internet: chet@po.CWRU.Edu
```

```
}-- End of excerpt from Chet Ramey
```

From friedman@cli.com Thu May 25 12:19:06 1995

Flags: 10

Return-Path: friedman@cli.com

Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTTP (8.6.10+cwru/CWRU-2.1-ins)

id MAA08685; Thu, 25 May 1995 12:19:05 -0400 (from friedman@cli.com for <chet@odin.INS.CWRU.Edu>)

Received: from cli.com (cli.com [192.31.85.1]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)

id MAA11299; Thu, 25 May 1995 12:19:00 -0400 (from friedman@cli.com for <chet@po.cwru.edu>)



Received: from tepui.cli.com by cli.com (4.1/SMI-4.1)  
id AA27213; Thu, 25 May 95 11:18:25 CDT  
Received: by tepui.cli.com (4.1) id AA16031; Thu, 25 May 95 11:18:23 CDT  
Message-Id: <9505251618.AA16031@tepui.cli.com>  
From: friedman@gnu.ai.mit.edu (Noah Friedman)  
To: chet@po.cwru.edu  
Subject: Bash scripts  
Reply-To: friedman@gnu.ai.mit.edu  
In-Reply-To: <chet@odin.ins.cwru.edu> Thu, 25 May 1995 11:19:59 -0400  
References: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>  
Date: Thu, 25 May 95 11:18:21 CST

>Hi. I snagged some of your bash functions from your home directory on  
>the FSF machines (naughty, I know), and I was wondering if you'd let  
>me distribute them with bash-2.0. Thanks.

Sure. I think there's a later copy in  
~ftp/friedman/shell-inits/init-4.89.tar.gz. There are also some elisp and  
es frobs in that file.

It should serve as a pretty good example of how to get carried away. :-)  
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```

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```

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```
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```

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From spcedt@armory.com Wed May 10 10:21:11 1995

Flags: 10

Return-Path: spcedt@armory.com

Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP (8.6.10+cwru/CWRU-2.1-ins)

id KAA22876; Wed, 10 May 1995 10:21:10 -0400 (from spcedt@armory.com for <chet@odin.INS.CWRU.Edu>)

Received: from deepthought.armory.com (mmdf@deepthought.armory.com [192.122.209.42]) by po.cwru.edu with



SMTP (8.6.10+cwru/CWRU-2.3)  
id BAA16354; Wed, 10 May 1995 01:33:22 -0400 (from spcedt@armory.com for <chet@po.cwru.edu>)  
From: John DuBois <spcedt@armory.com>  
Date: Tue, 9 May 1995 22:33:12 -0700  
In-Reply-To: Chet Ramey <chet@odin.ins.cwru.edu>  
"ksh scripts" (May 9, 1:36pm)  
X-Www: <http://www.armory.com/~spcedt/>  
X-Mailer: Mail User's Shell (7.2.5 10/14/92)  
To: chet@po.cwru.edu  
Subject: Re: ksh scripts  
Message-ID: <9505092233.aa13001@deephought.armory.com>

Sure. The canonical versions are available on <ftp.armory.com>; you might want to pick up the latest versions before modifying them.

John

On May 9, 1:36pm, Chet Ramey wrote:

```
} Subject: ksh scripts
} From odin.ins.cwru.edu!chet Tue May 9 10:39:51 1995
} Received: from odin.INS.CWRU.Edu by deepthought.armory.com id aa22336;
} 9 May 95 10:39 PDT
} Received: (chet@localhost) by odin.INS.CWRU.Edu (8.6.10+cwru/CWRU-2.1-ins)
} id NAA20487; Tue, 9 May 1995 13:39:24 -0400 (from chet)
} Date: Tue, 9 May 1995 13:36:54 -0400
} From: Chet Ramey <chet@odin.ins.cwru.edu>
} To: john@armory.com
} Subject: ksh scripts
} Cc: chet@odin.ins.cwru.edu
} Reply-To: chet@po.cwru.edu
} Message-ID: <9505091736.AA20411.SM@odin.INS.CWRU.Edu>
} Read-Receipt-To: chet@po.CWRU.Edu
} MIME-Version: 1.0
} Content-Type: text/plain; charset=us-ascii
} Status: OR
}
} Hi. I'm the maintainer of bash (the GNU `Bourne Again shell') for
} the FSF.
}
} I picked up a tar file of ksh scripts you wrote from an anon FTP site
} a while back. I'd like your permission to include modified versions
} of some of them in the next major bash distribution (with proper credit
} given, of course). Is it OK if I do that?
}
} Chet Ramey
}
} --
} ``The lyf so short, the craft so long to lerne." - Chaucer
```

}  
} Chet Ramey, Case Western Reserve University Internet: chet@po.CWRU.Edu  
}-- End of excerpt from Chet Ramey  
From mikel@ora.com Tue Aug 1 12:13:20 1995  
Flags: 10  
Return-Path: mikel@ora.com  
Received: from ruby.ora.com (ruby.ora.com [198.112.208.25]) by odin.INS.CWRU.Edu with ESMTP  
(8.6.12+cwru/CWRU-2.1-ins)  
id MAA01565; Tue, 1 Aug 1995 12:13:18 -0400 (from mikel@ora.com for <chet@odin.INS.CWRU.Edu>)  
Received: (from fax@localhost) by ruby.ora.com (8.6.12/8.6.11) with UUCP id MAA23251; Tue, 1 Aug 1995  
12:07:51 -0400  
Received: by los.ora.com (4.1/Spike-2.1)  
id AA00672; Tue, 1 Aug 95 08:57:32 EDT  
Date: Tue, 1 Aug 95 08:57:32 EDT  
From: mikel@ora.com (Michael Loukides)  
Message-Id: <9508011257.AA00672@los.ora.com>  
Subject: Re: Ksh debugger from Rosenblatt's book [for bash]  
To: Chet Ramey <chet@odin.INS.CWRU.Edu>  
Cc: cmarie@ora.com, cam@inet.com.au, brosenblatt@tm.com  
In-Reply-To: Chet Ramey <chet@odin.INS.CWRU.Edu>, Mon, 31 Jul 1995 16:22:48 -0400

I've modified a (modified) version of Bill Rosenblatt's ksh debugger  
to work with bash-2.0. Does ORA have any problem with me distributing  
it with bash-2.0?

That's great!

Go ahead and circulate it; in fact, we should probably grab it and  
stick it in our ftp archive, and put a reference to it in the book.  
(Too late to actually discuss the thing, at least for this edition).

-----

From friedman@cli.com Thu May 25 12:19:06 1995  
Flags: 10  
Return-Path: friedman@cli.com  
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP  
(8.6.10+cwru/CWRU-2.1-ins)  
id MAA08685; Thu, 25 May 1995 12:19:05 -0400 (from friedman@cli.com for <chet@odin.INS.CWRU.Edu>)  
Received: from cli.com (cli.com [192.31.85.1]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)  
id MAA11299; Thu, 25 May 1995 12:19:00 -0400 (from friedman@cli.com for <chet@po.cwru.edu>)  
Received: from tepui.cli.com by cli.com (4.1/SMI-4.1)  
id AA27213; Thu, 25 May 95 11:18:25 CDT  
Received: by tepui.cli.com (4.1) id AA16031; Thu, 25 May 95 11:18:23 CDT  
Message-Id: <9505251618.AA16031@tepui.cli.com>  
From: friedman@gnu.ai.mit.edu (Noah Friedman)  
To: chet@po.cwru.edu  
Subject: Bash scripts  
Reply-To: friedman@gnu.ai.mit.edu  
In-Reply-To: <chet@odin.ins.cwru.edu> Thu, 25 May 1995 11:19:59 -0400

References: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>

Date: Thu, 25 May 95 11:18:21 CST

>Hi. I snagged some of your bash functions from your home directory on  
>the FSF machines (naughty, I know), and I was wondering if you'd let  
>me distribute them with bash-2.0. Thanks.

Sure. I think there's a later copy in  
~ftp/friedman/shell-inits/init-4.89.tar.gz. There are also some elisp and  
es frobs in that file.

It should serve as a pretty good example of how to get carried away. :-)

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[ftp://ftp.mozilla.org/pub/mozilla.org/js/rhino1\\_6R5.zip](ftp://ftp.mozilla.org/pub/mozilla.org/js/rhino1_6R5.zip)

To obtain the source code for the 1.6R5 release of Rhino, issue the following commands:

```
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co -D2006-11-20 mozilla/js/rhino
```

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which is attached to this bug:

[https://bugzilla.mozilla.org/show\\_bug.cgi?id=367627](https://bugzilla.mozilla.org/show_bug.cgi?id=367627)

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The Rhino jar also includes four classes:

```
org.mozilla.javascript.tools.debugger.downloaded.AbstractCellEditor.java  
org.mozilla.javascript.tools.debugger.downloaded.JTreeTable.java  
org.mozilla.javascript.tools.debugger.downloaded.TreeTableModel.java  
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- icon-general.png (originally preferences-desktop.png)
- icon-language.png (originally preferences-desktop-locale.png)
- icon-network.png (originally applications-internet.png)
- icon-security.png (originally dialog-warning.png)
- icon-stylesheet.png (originally applications-graphics.png)
- media-playback-pause.png
- media-playback-start.png
- process-stop.png
- redo.png (modified version of edit-redo.png)
- system-search.png
- text-html.png

undo.png (modified version of edit-undo.png)  
utilities-system-monitor.png  
view-refresh.png  
window-new.png

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File Original filename

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zoom-in.png viewmag+.png  
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(last updated \$Date: 2002-12-10 03:15:21 +1100 (Tue, 10 Dec 2002) \$)

This distribution includes a binary distribution of Mozilla Rhino 1.6 release 5 plus one patch.

You can get the unpatched 1.6R5 release of Rhino from the following URL:

[ftp://ftp.mozilla.org/pub/mozilla.org/js/rhino1\\_6R5.zip](ftp://ftp.mozilla.org/pub/mozilla.org/js/rhino1_6R5.zip)

To obtain the source code for the 1.6R5 release of Rhino, issue the following commands:

```
cvs -d :pserver:anonymous@cvs-mirror.mozilla.org:/cvsroot \  
co -D2006-11-20 mozilla/js/rhino
```

The patch is available here:

<https://bugzilla.mozilla.org/attachment.cgi?id=288467>

which is attached to this bug:

[https://bugzilla.mozilla.org/show\\_bug.cgi?id=367627](https://bugzilla.mozilla.org/show_bug.cgi?id=367627)

Rhino is licensed under both the MPL (Mozilla Public License) 1.1 and the GPL (GNU General Public License) 2.0, which are duplicated below.

The Rhino jar also includes four classes:

```
org.mozilla.javascript.tools.debugger.downloaded.AbstractCellEditor.java  
org.mozilla.javascript.tools.debugger.downloaded.JTreeTable.java  
org.mozilla.javascript.tools.debugger.downloaded.TreeTableModel.java  
org.mozilla.javascript.tools.debugger.downloaded.TreeTableModelAdapter.java
```

Which come from:

<http://java.sun.com/products/jfc/tsc/articles/treetable2>

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Code sample

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media-playback-start.png  
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## 1.103 batik-ext 1.8

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(last updated by reagle on 1999/04/99.)

# 1.104 batik-ext 1.7

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\*/

```
package org.apache.batik.ext.awt.image.codec.util;
```

```
import java.awt.Point;
import java.awt.Rectangle;
import java.awt.image.ColorModel;
import java.awt.image.Raster;
import java.awt.image.RenderedImage;
import java.awt.image.SampleModel;
import java.awt.image.WritableRaster;
```

```
import java.util.Vector;
import java.util.List;
import java.util.ArrayList;
import java.util.Map;
import java.util.HashMap;
```

/\*\*

- \* A simple class implemented the `RenderedImage`
- \* interface. Only the `getTile()` method needs to be
- \* implemented by subclasses. The instance variables must also be
- \* filled in properly.
- \*
- \* 

Normally in JAI `PlanarImage` is used for this
- \* purpose, but in the interest of modularity the
- \* use of `PlanarImage` has been avoided.
- \*

```

* @version $Id: SimpleRenderedImage.java 498747 2007-01-22 18:56:19Z dvholten $
*/
public abstract class SimpleRenderedImage implements RenderedImage {

    /** The X coordinate of the image's upper-left pixel. */
    protected int minX;

    /** The Y coordinate of the image's upper-left pixel. */
    protected int minY;

    /** The image's width in pixels. */
    protected int width;

    /** The image's height in pixels. */
    protected int height;

    /** The width of a tile. */
    protected int tileWidth;

    /** The height of a tile. */
    protected int tileHeight;

    /** The X coordinate of the upper-left pixel of tile (0, 0). */
    protected int tileGridXOffset = 0;

    /** The Y coordinate of the upper-left pixel of tile (0, 0). */
    protected int tileGridYOffset = 0;

    /** The image's SampleModel. */
    protected SampleModel sampleModel = null;

    /** The image's ColorModel. */
    protected ColorModel colorModel = null;

    /** The image's sources, stored in a Vector. */
    protected List sources = new ArrayList();

    /** A Hashtable containing the image properties. */
    protected Map properties = new HashMap();

    public SimpleRenderedImage() {}

    /** Returns the X coordinate of the leftmost column of the image. */
    public int getMinX() {
        return minX;
    }

    /**

```

```

* Returns the X coordinate of the column immediately to the
* right of the rightmost column of the image. getMaxX() is
* implemented in terms of getMinX() and getWidth() and so does
* not need to be implemented by subclasses.
*/
public final int getMaxX() {
    return getMinX() + getWidth();
}

/** Returns the X coordinate of the uppermost row of the image. */
public int getMinY() {
    return minY;
}

/**
* Returns the Y coordinate of the row immediately below the
* bottom row of the image. getMaxY() is implemented in terms of
* getMinY() and getHeight() and so does not need to be
* implemented by subclasses.
*/
public final int getMaxY() {
    return getMinY() + getHeight();
}

/** Returns the width of the image. */
public int getWidth() {
    return width;
}

/** Returns the height of the image. */
public int getHeight() {
    return height;
}

/** Returns a Rectangle indicating the image bounds. */
public Rectangle getBounds() {
    return new Rectangle(getMinX(), getMinY(),
        getWidth(), getHeight());
}

/** Returns the width of a tile. */
public int getTileWidth() {
    return tileWidth;
}

/** Returns the height of a tile. */
public int getTileHeight() {
    return tileHeight;
}

```

```

}

/**
 * Returns the X coordinate of the upper-left pixel of tile (0, 0).
 */
public int getTileGridXOffset() {
    return tileGridXOffset;
}

/**
 * Returns the Y coordinate of the upper-left pixel of tile (0, 0).
 */
public int getTileGridYOffset() {
    return tileGridYOffset;
}

/**
 * Returns the horizontal index of the leftmost column of tiles.
 * getMinTileX() is implemented in terms of getMinX()
 * and so does not need to be implemented by subclasses.
 */
public int getMinTileX() {
    return XToTileX(getMinX());
}

/**
 * Returns the horizontal index of the rightmost column of tiles.
 * getMaxTileX() is implemented in terms of getMaxX()
 * and so does not need to be implemented by subclasses.
 */
public int getMaxTileX() {
    return XToTileX(getMaxX() - 1);
}

/**
 * Returns the number of tiles along the tile grid in the
 * horizontal direction. getNumXTiles() is implemented in terms
 * of getMinTileX() and getMaxTileX() and so does not need to be
 * implemented by subclasses.
 */
public int getNumXTiles() {
    return getMaxTileX() - getMinTileX() + 1;
}

/**
 * Returns the vertical index of the uppermost row of tiles. getMinTileY()
 * is implemented in terms of getMinY() and so does not need to be
 * implemented by subclasses.

```

```

*/
public int getMinTileY() {
    return YToTileY(getMinY());
}

/**
 * Returns the vertical index of the bottom row of tiles. getMaxTileY()
 * is implemented in terms of getMaxY() and so does not need to
 * be implemented by subclasses.
 */
public int getMaxTileY() {
    return YToTileY(getMaxY() - 1);
}

/**
 * Returns the number of tiles along the tile grid in the vertical
 * direction. getNumYTiles() is implemented in terms
 * of getMinTileY() and getMaxTileY() and so does not need to be
 * implemented by subclasses.
 */
public int getNumYTiles() {
    return getMaxTileY() - getMinTileY() + 1;
}

/** Returns the SampleModel of the image. */
public SampleModel getSampleModel() {
    return sampleModel;
}

/** Returns the ColorModel of the image. */
public ColorModel getColorModel() {
    return colorModel;
}

/**
 * Gets a property from the property set of this image. If the
 * property name is not recognized, <code>null</code> will be returned.
 *
 * @param name the name of the property to get, as a
 * <code>String</code>.
 * @return a reference to the property
 * <code>Object</code>, or the value <code>null</code>
 */
public Object getProperty(String name) {
    name = name.toLowerCase();
    return properties.get(name);
}

```

```

/**
 * Returns a list of the properties recognized by this image. If
 * no properties are available, an empty String[] will be returned.
 *
 * @return an array of <code>String</code>s representing valid
 *         property names.
 */
public String[] getPropertyNames() {
    String[] names = new String[properties.size()];
    // int index = 0;
    //
    // Enumeration e = properties.keys();
    // while (e.hasMoreElements()) {
    //     String name = (String)e.nextElement();
    //     names[index++] = name;
    // }
    properties.keySet().toArray( names );
    return names;
}

/**
 * Returns an array of <code>String</code>s recognized as names by
 * this property source that begin with the supplied prefix. If
 * no property names match, <code>null</code> will be returned.
 * The comparison is done in a case-independent manner.
 *
 * <p> The default implementation calls
 * <code>getPropertyNames()</code> and searches the list of names
 * for matches.
 *
 * @return an array of <code>String</code>s giving the valid
 *         property names (can be null).
 */
public String[] getPropertyNames(String prefix) {
    String[] propertyNames = getPropertyNames();
    if (propertyNames == null) {
        return null;
    }

    prefix = prefix.toLowerCase();

    List names = new ArrayList();
    for (int i = 0; i < propertyNames.length; i++) {
        if (propertyNames[i].startsWith(prefix)) {
            names.add(propertyNames[i]);
        }
    }
}

```



```

    if (names.size() == 0) {
        return null;
    }

    // Copy the strings from the Vector over to a String array.
    String[] prefixNames = new String[names.size()];

    //   int count = 0;
    //   for (Iterator it = names.iterator(); it.hasNext(); ) { // todo xx.toArray()
    //       prefixNames[count++] = (String)it.next();
    //   }
    names.toArray( prefixNames );

    return prefixNames;
}

// Utility methods.

/**
 * Converts a pixel's X coordinate into a horizontal tile index
 * relative to a given tile grid layout specified by its X offset
 * and tile width.
 */
public static int XToTileX(int x, int tileGridXOffset, int tileWidth) {
    x -= tileGridXOffset;
    if (x < 0) {
        x += 1 - tileWidth; // Force round to -infinity
    }
    return x/tileWidth;
}

/**
 * Converts a pixel's Y coordinate into a vertical tile index
 * relative to a given tile grid layout specified by its Y offset
 * and tile height.
 */
public static int YToTileY(int y, int tileGridYOffset, int tileHeight) {
    y -= tileGridYOffset;
    if (y < 0) {
        y += 1 - tileHeight; // Force round to -infinity
    }
    return y/tileHeight;
}

/**
 * Converts a pixel's X coordinate into a horizontal tile index.
 * This is a convenience method. No attempt is made to detect
 * out-of-range coordinates.

```

```

*
* @param x the X coordinate of a pixel.
* @return the X index of the tile containing the pixel.
*/
public int XToTileX(int x) {
    return XToTileX(x, getTileGridXOffset(), getTileWidth());
}

/**
* Converts a pixel's Y coordinate into a vertical tile index.
* This is a convenience method. No attempt is made to detect
* out-of-range coordinates.
*
* @param y the Y coordinate of a pixel.
* @return the Y index of the tile containing the pixel.
*/
public int YToTileY(int y) {
    return YToTileY(y, getTileGridYOffset(), getTileHeight());
}

/**
* Converts a horizontal tile index into the X coordinate of its
* upper left pixel relative to a given tile grid layout specified
* by its X offset and tile width.
*/
public static int tileXToX(int tx, int tileGridXOffset, int tileWidth) {
    return tx*tileWidth + tileGridXOffset;
}

/**
* Converts a vertical tile index into the Y coordinate of
* its upper left pixel relative to a given tile grid layout
* specified by its Y offset and tile height.
*/
public static int tileYToY(int ty, int tileGridYOffset, int tileHeight) {
    return ty*tileHeight + tileGridYOffset;
}

/**
* Converts a horizontal tile index into the X coordinate of its
* upper left pixel. This is a convenience method. No attempt is made
* to detect out-of-range indices.
*
* @param tx the horizontal index of a tile.
* @return the X coordinate of the tile's upper left pixel.
*/
public int tileXToX(int tx) {
    return tx*tileWidth + tileGridXOffset;
}

```

```

}

/**
 * Converts a vertical tile index into the Y coordinate of its
 * upper left pixel. This is a convenience method. No attempt is made
 * to detect out-of-range indices.
 *
 * @param ty the vertical index of a tile.
 * @return the Y coordinate of the tile's upper left pixel.
 */
public int tileYToY(int ty) {
    return ty*tileHeight + tileGridYOffset;
}

public Vector getSources() {
    return null;
}

/**
 * Returns the entire image in a single Raster. For images with
 * multiple tiles this will require making a copy.
 *
 * <p>The returned Raster is semantically a copy. This means
 * that updates to the source image will not be reflected in the
 * returned Raster. For non-writable (immutable) source images,
 * the returned value may be a reference to the image's internal
 * data. The returned Raster should be considered non-writable;
 * any attempt to alter its pixel data (such as by casting it to
 * WritableRaster or obtaining and modifying its DataBuffer) may
 * result in undefined behavior. The copyData method should be
 * used if the returned Raster is to be modified.
 *
 * @return a Raster containing a copy of this image's data.
 */
public Raster getData() {
    Rectangle rect = new Rectangle(getMinX(), getMinY(),
        getWidth(), getHeight());
    return getData(rect);
}

/**
 * Returns an arbitrary rectangular region of the RenderedImage
 * in a Raster. The rectangle of interest will be clipped against
 * the image bounds.
 *
 * <p>The returned Raster is semantically a copy. This means
 * that updates to the source image will not be reflected in the
 * returned Raster. For non-writable (immutable) source images,

```

```

* the returned value may be a reference to the image's internal
* data. The returned Raster should be considered non-writable;
* any attempt to alter its pixel data (such as by casting it to
* WritableRaster or obtaining and modifying its DataBuffer) may
* result in undefined behavior. The copyData method should be
* used if the returned Raster is to be modified.
*
* @param bounds the region of the RenderedImage to be returned.
*/

```

```

public Raster getData(Rectangle bounds) {
    int startX = XToTileX(bounds.x);
    int startY = YToTileY(bounds.y);
    int endX = XToTileX(bounds.x + bounds.width - 1);
    int endY = YToTileY(bounds.y + bounds.height - 1);
    Raster tile;

    if ((startX == endX) && (startY == endY)) {
        tile = getTile(startX, startY);
        return tile.createChild(bounds.x, bounds.y,
                                bounds.width, bounds.height,
                                bounds.x, bounds.y, null);
    } else {
        // Create a WritableRaster of the desired size
        SampleModel sm =
            sampleModel.createCompatibleSampleModel(bounds.width,
  bounds.height);

        // Translate it
        WritableRaster dest =
            Raster.createWritableRaster(sm, bounds.getLocation());

        for (int j = startY; j <= endY; j++) {
            for (int i = startX; i <= endX; i++) {
                tile = getTile(i, j);
                Rectangle intersectRect =
                    bounds.intersection(tile.getBounds());
                Raster liveRaster = tile.createChild(intersectRect.x,
  intersectRect.y,
  intersectRect.width,
  intersectRect.height,
  intersectRect.x,
  intersectRect.y,
  null);
                dest.setDataElements(0, 0, liveRaster);
            }
        }
        return dest;
    }
}

```

```

}

/**
 * Copies an arbitrary rectangular region of the RenderedImage
 * into a caller-supplied WritableRaster. The region to be
 * computed is determined by clipping the bounds of the supplied
 * WritableRaster against the bounds of the image. The supplied
 * WritableRaster must have a SampleModel that is compatible with
 * that of the image.
 *
 * <p> If the raster argument is null, the entire image will
 * be copied into a newly-created WritableRaster with a SampleModel
 * that is compatible with that of the image.
 *
 * @param dest a WritableRaster to hold the returned portion of
 * the image.
 * @return a reference to the supplied WritableRaster, or to a
 * new WritableRaster if the supplied one was null.
 */
public WritableRaster copyData(WritableRaster dest) {
    Rectangle bounds;
    Raster tile;

    if (dest == null) {
        bounds = getBounds();
        Point p = new Point(minX, minY);
        /* A SampleModel to hold the entire image. */
        SampleModel sm = sampleModel.createCompatibleSampleModel(
            width, height);
        dest = Raster.createWritableRaster(sm, p);
    } else {
        bounds = dest.getBounds();
    }

    int startX = XToTileX(bounds.x);
    int startY = YToTileY(bounds.y);
    int endX = XToTileX(bounds.x + bounds.width - 1);
    int endY = YToTileY(bounds.y + bounds.height - 1);

    for (int j = startY; j <= endY; j++) {
        for (int i = startX; i <= endX; i++) {
            tile = getTile(i, j);
            Rectangle intersectRect =
                bounds.intersection(tile.getBounds());
            Raster liveRaster = tile.createChild(intersectRect.x,
                intersectRect.y,
                intersectRect.width,
                intersectRect.height,

```

```

        intersectRect.x,
        intersectRect.y,
        null);

    /*
     * WritableRaster.setDataElements takes into account of
     * inRaster's minX and minY and add these to x and y. Since
     * liveRaster has the origin at the correct location, the
     * following call should not again give these coordinates in
     * places of x and y.
     */
    dest.setDataElements(0, 0, liveRaster);
    }
    }
    return dest;
    }
}
/*

```

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```

*/

package org.apache.batik.ext.awt.image.codec.util;

import java.awt.image.ColorModel;
import java.awt.image.Raster;
import java.awt.image.RenderedImage;
import java.io.IOException;
import java.io.OutputStream;

/**
 * A partial implementation of the ImageEncoder interface useful for
 * subclassing.
 */

```

```

* <p><b> This class is not a committed part of the JAI API. It may
* be removed or changed in future releases of JAI.</b>
*
* @version $Id: ImageEncoderImpl.java 498740 2007-01-22 18:35:57Z dvholten $
*/
public abstract class ImageEncoderImpl implements ImageEncoder {

    /** The OutputStream associated with this ImageEncoder. */
    protected OutputStream output;

    /** The ImageEncodeParam object associated with this ImageEncoder. */
    protected ImageEncodeParam param;

    /**
     * Constructs an ImageEncoderImpl with a given OutputStream
     * and ImageEncoderParam instance.
     */
    public ImageEncoderImpl(OutputStream output,
        ImageEncodeParam param) {
        this.output = output;
        this.param = param;
    }

    /**
     * Returns the current parameters as an instance of the
     * ImageEncodeParam interface. Concrete implementations of this
     * interface will return corresponding concrete implementations of
     * the ImageEncodeParam interface. For example, a JPEGImageEncoder
     * will return an instance of JPEGEncodeParam.
     */
    public ImageEncodeParam getParam() {
        return param;
    }

    /**
     * Sets the current parameters to an instance of the
     * ImageEncodeParam interface. Concrete implementations
     * of ImageEncoder may throw a RuntimeException if the
     * params argument is not an instance of the appropriate
     * subclass or subinterface. For example, a JPEGImageEncoder
     * will expect param to be an instance of JPEGEncodeParam.
     */
    public void setParam(ImageEncodeParam param) {
        this.param = param;
    }

    /** Returns the OutputStream associated with this ImageEncoder. */
    public OutputStream getOutputStream() {

```

```

        return output;
    }

    /**
     * Encodes a Raster with a given ColorModel and writes the output
     * to the OutputStream associated with this ImageEncoder.
     */
    public void encode(Raster ras, ColorModel cm) throws IOException {
        RenderedImage im = new SingleTileRenderedImage(ras, cm);
        encode(im);
    }

    /**
     * Encodes a RenderedImage and writes the output to the
     * OutputStream associated with this ImageEncoder.
     */
    public abstract void encode(RenderedImage im) throws IOException;
}
/*

```

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```

*/
package org.apache.batik.ext.awt.image.codec.util;

import java.awt.image.Raster;
import java.awt.image.RenderedImage;
import java.io.IOException;
import java.io.InputStream;

/**
 * A partial implementation of the ImageDecoder interface
 * useful for subclassing.
 *
 * @version $Id: ImageDecoderImpl.java 498740 2007-01-22 18:35:57Z dvholten $

```



```

*/
public abstract class ImageDecoderImpl implements ImageDecoder {

    /**
     * The SeekableStream associated with this
     * ImageEncoder.
     */
    protected SeekableStream input;

    /**
     * The ImageDecodeParam object associated with this
     * ImageEncoder.
     */
    protected ImageDecodeParam param;

    /**
     * Constructs an ImageDecoderImpl with a given
     * SeekableStream and ImageDecodeParam
     * instance.
     */
    public ImageDecoderImpl(SeekableStream input,
                            ImageDecodeParam param) {
        this.input = input;
        this.param = param;
    }

    /**
     * Constructs an ImageDecoderImpl with a given
     * InputStream and ImageDecodeParam
     * instance. The input parameter will be used to
     * construct a ForwardSeekableStream; if the ability
     * to seek backwards is required, the caller should construct
     * an instance of SeekableStream and
     * make use of the other constructor.
     */
    public ImageDecoderImpl(InputStream input,
                            ImageDecodeParam param) {
        this.input = new ForwardSeekableStream(input);
        this.param = param;
    }

    /**
     * Returns the current parameters as an instance of the
     * ImageDecodeParam interface. Concrete
     * implementations of this interface will return corresponding
     * concrete implementations of the ImageDecodeParam
     * interface. For example, a JPEGImageDecoder will
     * return an instance of JPEGDecodeParam.

```

```

*/
public ImageDecodeParam getParam() {
    return param;
}

/**
 * Sets the current parameters to an instance of the
 * ImageDecodeParam interface. Concrete
 * implementations of ImageDecoder may throw a
 * RuntimeException if the param
 * argument is not an instance of the appropriate subclass or
 * subinterface. For example, a JPEGImageDecoder
 * will expect param to be an instance of
 * JPEGDecodeParam.
 */
public void setParam(ImageDecodeParam param) {
    this.param = param;
}

/**
 * Returns the SeekableStream associated with
 * this ImageDecoder.
 */
public SeekableStream getInputStream() {
    return input;
}

/**
 * Returns the number of pages present in the current stream.
 * By default, the return value is 1. Subclasses that deal with
 * multi-page formats should override this method.
 */
public int getNumPages() throws IOException {
    return 1;
}

/**
 * Returns a Raster that contains the decoded
 * contents of the SeekableStream associated
 * with this ImageDecoder. Only
 * the first page of a multi-page image is decoded.
 */
public Raster decodeAsRaster() throws IOException {
    return decodeAsRaster(0);
}

/**
 * Returns a Raster that contains the decoded

```

```

* contents of the <code>SeekableStream</code> associated
* with this <code>ImageDecoder</code>.
* The given page of a multi-page image is decoded. If
* the page does not exist, an IOException will be thrown.
* Page numbering begins at zero.
*
* @param page The page to be decoded.
*/
public Raster decodeAsRaster(int page) throws IOException {
    RenderedImage im = decodeAsRenderedImage(page);
    return im.getData();
}

/**
* Returns a <code>RenderedImage</code> that contains the decoded
* contents of the <code>SeekableStream</code> associated
* with this <code>ImageDecoder</code>. Only
* the first page of a multi-page image is decoded.
*/
public RenderedImage decodeAsRenderedImage() throws IOException {
    return decodeAsRenderedImage(0);
}

/**
* Returns a <code>RenderedImage</code> that contains the decoded
* contents of the <code>SeekableStream</code> associated
* with this <code>ImageDecoder</code>.
* The given page of a multi-page image is decoded. If
* the page does not exist, an IOException will be thrown.
* Page numbering begins at zero.
*
* @param page The page to be decoded.
*/
public abstract RenderedImage decodeAsRenderedImage(int page)
    throws IOException;
}

```

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media-playback-pause.png  
media-playback-start.png  
process-stop.png  
redo.png (modified version of edit-redo.png)  
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(last updated \$Date: 2002-12-10 03:15:21 +1100 (Tue, 10 Dec 2002) \$)

This distribution includes a binary distribution of Mozilla Rhino 1.6 release 5 plus one patch.

You can get the unpatched 1.6R5 release of Rhino from the following URL:

[ftp://ftp.mozilla.org/pub/mozilla.org/js/rhino1\\_6R5.zip](ftp://ftp.mozilla.org/pub/mozilla.org/js/rhino1_6R5.zip)

To obtain the source code for the 1.6R5 release of Rhino, issue the following commands:

```
cvs -d :pserver:anonymous@cvs-mirror.mozilla.org:/cvsroot \  
co -D2006-11-20 mozilla/js/rhino
```

The patch is available here:

<https://bugzilla.mozilla.org/attachment.cgi?id=288467>

which is attached to this bug:

[https://bugzilla.mozilla.org/show\\_bug.cgi?id=367627](https://bugzilla.mozilla.org/show_bug.cgi?id=367627)

Rhino is licensed under both the MPL (Mozilla Public License) 1.1 and the GPL (GNU General Public License) 2.0, which are duplicated below.

The Rhino jar also includes four classes:

```
org.mozilla.javascript.tools.debugger.downloaded.AbstractCellEditor.java  
org.mozilla.javascript.tools.debugger.downloaded.JTreeTable.java  
org.mozilla.javascript.tools.debugger.downloaded.TreeTableModel.java  
org.mozilla.javascript.tools.debugger.downloaded.TreeTableModelAdapter.java
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Which come from:

<http://java.sun.com/products/jfc/tsc/articles/treetable2>

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```
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```

The patch is available here:

<https://bugzilla.mozilla.org/attachment.cgi?id=288467>

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The Rhino jar also includes four classes:

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org.mozilla.javascript.tools.debugger.downloaded.AbstractCellEditor.java  
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org.mozilla.javascript.tools.debugger.downloaded.TreeTableModelAdapter.java
```

Which come from:

<http://java.sun.com/products/jfc/tsc/articles/treetable2>

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icon-general.png (originally preferences-desktop.png)  
icon-language.png (originally preferences-desktop-locale.png)  
icon-network.png (originally applications-internet.png)  
icon-security.png (originally dialog-warning.png)  
icon-stylesheet.png (originally applications-graphics.png)  
media-playback-pause.png  
media-playback-start.png  
process-stop.png  
redo.png (modified version of edit-redo.png)  
system-search.png  
text-html.png  
undo.png (modified version of edit-undo.png)  
utilities-system-monitor.png  
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\* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

\* atf-c/ui.c: The format\_paragraph and format\_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

\* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io\_test.cpp: These files were derived from the file\_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

\* admin/check-style.sh, admin/check-style-common.awk, admin/check-style-cpp.awk, admin/check-style-shell.awk: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

=====  
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2

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## 1.131 Bootstrap 3.0

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```

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```
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* Bootstrap v3.1.0 (http://getbootstrap.com)  
* Copyright 2011-2014 Twitter, Inc.  
* Licensed under MIT (https://github.com/twbs/bootstrap/blob/master/LICENSE)  
*/
```

```
if (typeof jQuery === 'undefined') { throw new Error('Bootstrap requires jQuery') }
```

```
/* =====  
* Bootstrap: transition.js v3.1.0  
* http://getbootstrap.com/javascript/#transitions  
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* ===== */
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# 1.133 bsh 2.0b4

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Thawte/Symantec have confirmed that the certificate is authentic at:  
[https://bugzilla.mozilla.org/show\\_bug.cgi?id=1100532#c9](https://bugzilla.mozilla.org/show_bug.cgi?id=1100532#c9)

(b)

Mozilla has removed several CA certificates that use 1024 bit keys.

For compatibility reasons, this package keeps several of those removed CA certificates still trusted by default.

Please refer to the `ca-legacy(8)` man page and the `ca-legacy` utility to learn how to disable them, if desired.

## 1.137 camel-jaxb 1.4

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## 1.176 catalina 5.5.23

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2000-05-05

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# 1.180 cisco-velocity-1.7b 1.7b

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# 1.181 cisco-xalan-2.7.2b 2.7.2b

## 1.182 Code Generation Library 2.2

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## 1.185 com.cisco.xmp.osgi.bsf 2.3.0

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## 1.206 com.cisco.xmp.osgi.tftp4java-server 0.8

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## 1.207 com.cisco.xmp.osgi.xmlbeans-qname

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## 1.217 com.springsource.jline 0.9.94

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## 1.218 com.springsource.jxl 2.6.6

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## 1.228

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## 1.266 commons-beanutils-bean-collections

### 1.8.3

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is

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- javaee\_web\_services\_client\_1\_2.xsd
- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
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*
* @(#)bitstring.h 8.1 (Berkeley) 7/19/93
*/
```

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- Apache CXF Runtime JAX-RS Frontend (<http://cxf.apache.org>) org.apache.cxf:cxf-rt-frontend-jaxrs:jar:2.7.3

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- Apache CXF JAX-RS Extensions: Providers (<http://cxf.apache.org>) org.apache.cxf:cxf-rt-rs-extension-providers:jar:2.7.3

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- Apache CXF JAX-RS Extensions: Search (<http://cxf.apache.org>) org.apache.cxf:cxf-rt-rs-extension-search:jar:2.7.3

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- Apache CXF Runtime HTTP Transport (<http://cxf.apache.org>) org.apache.cxf:cxf-rt-transports-http:jar:2.7.3

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- Apache CXF Runtime HTTP Jetty Transport (<http://cxf.apache.org>) org.apache.cxf:cxf-rt-transports-http-jetty:jar:2.7.3

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- XmlSchema Core (<http://ws.apache.org/commons/xmlschema20/xmlschema-core/>)

# 1.325 cxf-core 3.0.9

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## 1.329 cxf-rt-core 2.7.7



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## 1.344 D3 Plugin To Draw Sankey Diagrams

## 3.4.0 :Prime Infrastructure Niihau Release

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## 1.345 d3.js n/a

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# 1.358 dojo 1.10.4

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Version 2, June 1991

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Theodore Ts'o  
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```
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```
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```

```
<signature of Ty Coon>, 1 April 1989
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Version 2, June 1991

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```
#!/bin/sh
```

```
find . -type f \! -name \*~ \! -exec grep -q Begin-Header \{\} \; -print \  
| grep -v ^./build
```

This is the Debian GNU/Linux prepackaged version of the Common Error  
Description library. It is currently distributed together with the EXT2 file  
system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,  
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file system consistency checker (e2fsck.static). The EXT2 utilities  
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Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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Theodore Ts'o  
23-June-2007

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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```
<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice
```

That's all there is to it!

```
#  
# This is a Makefile stub which handles the creation of BSD shared  
# libraries.  
#  
# In order to use this stub, the following makefile variables must be defined.  
#  
# BSDLIB_VERSION = 1.0  
# BSDLIB_IMAGE = libce  
# BSDLIB_MYDIR = et
```

```

# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

real-subdirs:: Makefile
@echo " MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image: $(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
`echo $(my_dir) | sed -e 's/lib/;"/'$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \
$(DESTDIR)$$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
Index: tdbsa/tdb.c
=====
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

```

- trivial database library - private includes
- 
- Copyright (C) Andrew Tridgell 2005
- + Copyright (C) Andrew Tridgell 1999-2005
- + Copyright (C) Jeremy Allison 2000-2006
- + Copyright (C) Paul 'Rusty' Russell 2000

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## 1.367 easyrules-core 2.1.0

## 1.368 easyrules-jmx 2.1.0

# 1.369 easyrules-quartz 2.1.0

# 1.370 easyrules-spring 2.1.0

# 1.371 edtFTPj 2.0.2

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 *
 * Change Log:
 *
 * $Log: AdvancedFTPSettings.java,v $
 * Revision 1.2 2008-03-31 00:16:23 bruceb
 * advanced settings rejig
 *
 * Revision 1.1 2007-12-18 07:52:06 bruceb
 * 2.0 changes
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Version 2.1, February 1999
```

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lib/em/buftok.rb

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```
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Version 2, June 1991

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```

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This is an attempt to acknowledge early contributions to the garbage  
collector. Later contributions should instead be mentioned in  
README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(agg@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code.

Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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making modifications to it. ``Object code" means any non-source form of a work.

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```
@c man end
@ignore
@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
@c man begin SEEALSO
gfdl(7), fsf-funding(7).
@c man end
@c man begin COPYRIGHT
Copyright @copyright{ } 1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA
```

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```
@c man end
@end ignore
@node Copying
@c man begin DESCRIPTION
@unnumbered GNU GENERAL PUBLIC LICENSE
@center Version 2, June 1991
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@c This file is intended to be included in another file.
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@display
Copyright @copyright{ } 1989, 1991 Free Software Foundation, Inc.
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@end enumerate

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

@item

You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

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Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

@item

Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

@item

Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

@end enumerate

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

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If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

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@center NO WARRANTY

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@end enumerate

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@heading END OF TERMS AND CONDITIONS

@end iftex

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@center END OF TERMS AND CONDITIONS

@end ifnottex

@page

@unnumberedsec Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the ``copyright" line and a pointer to where the full notice is found.

@smallexample

@var{one line to give the program's name and a brief idea of what it does.}

Copyright (C) @var{year} @var{name of author}

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the



GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA  
@end smallexample

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
@smallexample
Gnomovision version 69, Copyright (C) @var{year} @var{name of author}
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details
type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
@end smallexample
```

The hypothetical commands @samp{show w} and @samp{show c} should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than @samp{show w} and @samp{show c}; they could even be mouse-clicks or menu items---whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a ``copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
@example
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
@var{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
@end example
```

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

```
@c man end
GCC RUNTIME LIBRARY EXCEPTION
```

Version 3.1, 31 March 2009

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This GCC Runtime Library Exception ("Exception") is an additional permission under section 7 of the GNU General Public License, version 3 ("GPLv3"). It applies to a given file (the "Runtime Library") that bears a notice placed by the copyright holder of the file stating that the file is governed by GPLv3 along with this Exception.

When you use GCC to compile a program, GCC may combine portions of certain GCC header files and runtime libraries with the compiled program. The purpose of this Exception is to allow compilation of non-GPL (including proprietary) programs to use, in this way, the header files and runtime libraries covered by this Exception.

## 0. Definitions.

A file is an "Independent Module" if it either requires the Runtime Library for execution after a Compilation Process, or makes use of an interface provided by the Runtime Library, but is not otherwise based on the Runtime Library.

"GCC" means a version of the GNU Compiler Collection, with or without modifications, governed by version 3 (or a specified later version) of the GNU General Public License (GPL) with the option of using any subsequent versions published by the FSF.

"GPL-compatible Software" is software whose conditions of propagation, modification and use would permit combination with GCC in accord with the license of GCC.

"Target Code" refers to output from any compiler for a real or virtual target processor architecture, in executable form or suitable for input to an assembler, loader, linker and/or execution phase. Notwithstanding that, Target Code does not include data in any format that is used as a compiler intermediate representation, or used for producing a compiler intermediate representation.

The "Compilation Process" transforms code entirely represented in non-intermediate languages designed for human-written code, and/or in Java Virtual Machine byte code, into Target Code. Thus, for example, use of source code generators and preprocessors need not be considered part of the Compilation Process, since the Compilation Process can be understood as starting with the output of the generators or preprocessors.

A Compilation Process is "Eligible" if it is done using GCC, alone or with other GPL-compatible software, or if it is done without using any work based on GCC. For example, using non-GPL-compatible Software to optimize any GCC intermediate representations would not qualify as an Eligible Compilation Process.

#### 1. Grant of Additional Permission.

You have permission to propagate a work of Target Code formed by combining the Runtime Library with Independent Modules, even if such propagation would otherwise violate the terms of GPLv3, provided that all Target Code was generated by Eligible Compilation Processes. You may then convey such a combination under terms of your choice, consistent with the licensing of the Independent Modules.

#### 2. No Weakening of GCC Copyleft.

The availability of this Exception does not imply any general presumption that third-party software is unaffected by the copyleft requirements of the license of GCC.

@node Library Copying

@appendixsec GNU LESSER GENERAL PUBLIC LICENSE

@cindex LGPL, Lesser General Public License

@center Version 2.1, February 1999

@display

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[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

@end display

@appendixsubsec Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software---to make sure the software is free for all its users.

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it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those

libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the @dfn{Lesser} General Public License because it does @emph{Less} to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a ``work based on the library" and a ``work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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@appendixsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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@center GNU LESSER GENERAL PUBLIC LICENSE  
@center TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION  
@end ifinfo

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A ``library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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

``Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

@item

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You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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The modified work must itself be a software library.

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You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

@item

You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

@item

If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

@end enumerate

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

@item

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

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

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A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.



However, linking a ``work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a ``work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a ``work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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As an exception to the Sections above, you may also combine or link a ``work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked

with the Library, with the complete machine-readable ``work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

@item

Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

@item

Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

@item

If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

@item

Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

@end enumerate

For an executable, the required form of the ``work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

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gdal/frmts/gtiff/tif\_float.c  
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gdal/frmts/hdf4/hdf-eos/\*  
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gdal/frmts/pcraster/libcsf  
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gdal/frmts/grib/degrib/\*  
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gdal/ogr/ogrsf\_frmts/dxf/intronurbs.cpp  
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gdal/alg/thinplatespline.cpp  
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IEEE754 log() code derived from:  
@(#)e\_log.c 1.3 95/01/18

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## 1.391 geronimo-j2ee-deployment\_1.1\_spec

### 1.0

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## 1.392 geronimo-j2ee-management\_1.1\_spec

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@c Local Variables:

@c ispell-local-pdict: "ispell-dict"

@c End:

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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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/\*

\* UTF-8 support routines

\*

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```



# 1.404 gridx 1.1

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## 1.405 Groovy 2.3.7

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```

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```
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# 1.415 gwt-servlet-deps 1.0

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## 1.419 hdparm\_wiper/Gplv2 9.43 :4.e16



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## 1.421 hibernate-commons-annotations-

### 3.2.0.FINAL 3.2.0.FINAL

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*/

```

```

package org.hibernate.annotations.common.reflection.java.generics;

```

```

import java.lang.reflect.GenericArrayType;
import java.lang.reflect.ParameterizedType;
import java.lang.reflect.Type;
import java.lang.reflect.TypeVariable;
import java.lang.reflect.WildcardType;
import java.util.HashMap;

```

```

/**

```

```

* Binds formal type arguments (typically T, E, etc.) to actual types.

```

```

*

```

```

* @author Davide Marchignoli

```

```

* @author Paolo Perrotta

```

```

*/

```

```

class SimpleTypeEnvironment extends HashMap<Type, Type> implements TypeEnvironment {

```

```

    private static final long serialVersionUID = 1L;

```

```

    private final TypeSwitch<Type> substitute = new TypeSwitch<Type>() {

```

```

        @Override

```

```

        public Type caseClass(Class classType) {

```

```

            return classType;

```

```

        }

```

```

        @Override

```

```

        public Type caseGenericArrayType(GenericArrayType genericArrayType) {

```

```

            Type originalComponentType = genericArrayType.getGenericComponentType();

```

```

            Type boundComponentType = bind( originalComponentType );

```

```

            // try to keep the original type if possible

```

```

            if ( originalComponentType == boundComponentType ) {

```

```

                return genericArrayType;

```

```

            }

```

```

return TypeFactory.createArrayType( boundComponentType );
}

@Override
public Type caseParameterizedType(ParameterizedType parameterizedType) {
    Type[] originalArguments = parameterizedType.getActualTypeArguments();
    Type[] boundArguments = substitute( originalArguments );
    // try to keep the original type if possible
    if ( areSame( originalArguments, boundArguments ) ) {
        return parameterizedType;
    }
    return TypeFactory.createParameterizedType(
        parameterizedType.getRawType(), boundArguments, parameterizedType.getOwnerType()
    );
}

private boolean areSame(Object[] array1, Object[] array2) {
    if ( array1.length != array2.length ) {
        return false;
    }
    for ( int i = 0; i < array1.length ; i++ ) {
        if ( array1[i] != array2[i] ) {
            return false;
        }
    }
    return true;
}

@Override
public Type caseTypeVariable(TypeVariable typeVariable) {
    if ( !containsKey( typeVariable ) ) {
        return typeVariable;
    }
    return get( typeVariable );
}

@Override
public Type caseWildcardType(WildcardType wildcardType) {
    return wildcardType;
}
};

public SimpleTypeEnvironment(Type[] formalTypeArgs, Type[] actualTypeArgs) {
    for (int i = 0; i < formalTypeArgs.length; i++) {
        put( formalTypeArgs[i], actualTypeArgs[i] );
    }
}
}

```

```

public Type bind(Type type) {
    return substitute.doSwitch( type );
}

private Type[] substitute(Type[] types) {
    Type[] substTypes = new Type[types.length];
    for ( int i = 0; i < substTypes.length ; i++ ) {
        substTypes[i] = bind( types[i] );
    }
    return substTypes;
}
}
/*
 * Hibernate, Relational Persistence for Idiomatic Java
 *
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 */
package org.hibernate.annotations.common.reflection.java;

import java.lang.reflect.Type;
import java.util.Collection;

import org.hibernate.annotations.common.reflection.XClass;
import org.hibernate.annotations.common.reflection.java.generics.TypeEnvironment;

/**
 * @author Emmanuel Bernard
 * @author Paolo Perrotta
 */
class JavaXSimpleType extends JavaXType {

```

```

public JavaXSimpleType(Type type, TypeEnvironment context, JavaReflectionManager factory) {
    super( type, context, factory );
}

public boolean isArray() {
    return false;
}

public boolean isCollection() {
    return false;
}

public XClass getElementClass() {
    return toXClass( approximate() );
}

public XClass getClassOrElementClass() {
    return getElementClass();
}

public Class<? extends Collection> getCollectionClass() {
    return null;
}

public XClass getType() {
    return toXClass( approximate() );
}

public XClass getMapKey() {
    return null;
}
}

```

## 1.422 hibernate-jpa-2.0-api 1.0.0.Final

## 1.423 hibernate-search 1.1.0

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## 1.442 httpcore-nio 4.4.4

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*
*/

/**
* Embedded non-blocking server and server bootstrap.
*/
package org.apache.http.impl.nio.bootstrap;

```

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In a mail sent to Bruno Lowagie on January 23, 2008, Brian Burkhalter (@sun.com) writes: "This code is under a BSD license and supersedes the older codec packages on which your code is based. It also includes numerous fixes among them being the ability to handle a lot of 'broken' TIFFs."

Note that numerous fixes were applied to the code used in iText by Paulo Soares, but apart from the fixes there were no essential changes between the code that was originally adapted and the code that is now available under the following license:

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FYI: Brian also added: "A bit of history might be in order. The codec classes that you used originally were based on some classes included with JAI but not strictly part of JAI. As of Java SE 1.4 an official Image I/O framework was added in javax.imageio.... This framework supports these formats:

Java 1.4: GIF (read only), JPEG, PNG

Java 1.5: Added support for BMP and WBMP

Java 1.6: Added support for writing GIF

The JAI Image I/O Tools packages (jai-imageio-core) were created to support formats handled by JAI but not included in Java SE as well as some new things like JPEG2000."

(4) the file com/lowagie/text/pdf/codec/TIFFConstants and some other TIFF related code is derived from LIBTIFF:

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## 1.461 itext 2.1.0

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FYI: Brian also added: "A bit of history might be in order. The codec classes that you used originally were based on some classes included with JAI but not strictly part of JAI. As of Java SE 1.4 an official Image I/O framework was added in javax.imageio.... This frameork supports these formats:

Java 1.4: GIF (read only), JPEG, PNG

Java 1.5: Added support for BMP and WBMP

Java 1.6: Added support for writing GIF

The JAI Image I/O Tools packages (jai-imageio-core) were created to support formats handled by JAI but not included in Java SE as well as some new things like JPEG2000."

(4) the file com/itextpdf/text/pdf/codec/TIFFConstants

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## 1.464 J2SSH 0.2.9

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## 1.478 jackson-core-asl 1.9.12

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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from



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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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

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

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

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether

it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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

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

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

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

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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# 1.489 jackson-mapper-asl 1.5.8

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## 2.6.1

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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## 1.504 javacsv 2.1

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```
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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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

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

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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## 1.511 javax.annotation-api 1.2

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<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
```

```
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
```

```
<head>
```

```
<meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1" />
```

```
<title>CDDL+GPL Version 1.1</title>
```

```
</head>
```

```
<!-- @page { margin: 0.79in } P { margin-bottom: 0.08in } H1 { margin-top: 0in; margin-bottom: 0.17in; widows: 0; orphans: 0 } H1.western { font-family: "Times New Roman", serif; font-size: 12pt; font-weight: normal } H1.cjk { font-family: "Andale Sans UI"; font-size: 12pt; font-weight: normal } H1.ctl { font-family: "Tahoma"; font-size: 12pt; font-weight: normal } -->
```

```
<BODY DIR="LTR">
```

```
<p><strong>COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.1</strong></p>
```

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\* \$Header: /cvsroot/jaxen/jaxen/src/java/main/org/jaxen/pattern/NoNodeTest.java,v 1.4 2002/04/26 17:17:36

jstrachan Exp \$

\* \$Revision: 1.4 \$

\* \$Date: 2002/04/26 17:17:36 \$

\*

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\* \$Id: NoNodeTest.java,v 1.4 2002/04/26 17:17:36 jstrachan Exp \$  
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```
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```

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*/
```



# 1.525 JCL - Core 2.2.1

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## 1.526 JCL 1.1.1 implemented over SLF4J 1.5.8

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# 1.530 jcommon-1.0.17 1.0.17

## 1.530.1 Available under license :

/\*\*

\* PngEncoder takes a Java Image object and creates a byte string which can be  
\* saved as a PNG file. The Image is presumed to use the DirectColorModel.

\*

\* <p>Thanks to Jay Denny at KeyPoint Software

\* <http://www.keypoint.com/>

\* who let me develop this code on company time.</p>

\*

\* <p>You may contact me with (probably very-much-needed) improvements,

\* comments, and bug fixes at:</p>

\*

\* <p><code>david@catcode.com</code></p>

\*

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\*

\* @author J. David Eisenberg

\* @version 1.5, 19 Oct 2003

\*

\* CHANGES:

\* -----



- \* 19-Nov-2002 : CODING STYLE CHANGES ONLY (by David Gilbert for Object Refinery Limited);
- \* 19-Sep-2003 : Fix for platforms using EBCDIC (contributed by Paulo Soares);
- \* 19-Oct-2003 : Change private fields to protected fields so that PngEncoderB can inherit them (JDE)
- \* Fixed bug with calculation of nRows
- \* 15-Aug-2008 : Added scrunch.end() in writeImageData() method - see JFreeChart bug report 2037930 (David Gilbert);
- \*/

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## 1.531 jdom b10

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\$Id: Comment.java,v 1.32 2004/02/11 21:12:43 jhunter Exp \$

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\*/

package org.jdom;

```

/**
 * An XML comment. Methods allow the user to get and set the text of the
 * comment.
 *
 * @version $Revision: 1.32 $, $Date: 2004/02/11 21:12:43 $
 * @author Brett McLaughlin
 * @author Jason Hunter
 */
public class Comment extends Content {

    private static final String CVS_ID =
        "@(#) $RCSfile: Comment.java,v $ $Revision: 1.32 $ $Date: 2004/02/11 21:12:43 $ $Name: jdom_1_0 $";

    /** Text of the <code>Comment</code> */
    protected String text;

    /**
     * Default, no-args constructor for implementations to use if needed.
     */
    protected Comment() {}

    /**
     * This creates the comment with the supplied text.
     *
     * @param text <code>String</code> content of comment.
     */
    public Comment(String text) {
        setText(text);
    }

    /**
     * Returns the XPath 1.0 string value of this element, which is the
     * text of this comment.
     *
     * @return the text of this comment
     */
    public String getValue() {
        return text;
    }

    /**
     * This returns the textual data within the <code>Comment</code>.
     *
     * @return <code>String</code> - text of comment.
     */
    public String getText() {

```

```

        return text;
    }

    /**
     * This will set the value of the Comment.
     *
     * @param text String text for comment.
     * @return Comment - this Comment modified.
     * @throws IllegalDataException if the given text is illegal for a
     *         Comment.
     */
    public Comment setText(String text) {
        String reason;
        if ((reason = Verifier.checkCommentData(text)) != null) {
            throw new IllegalDataException(text, "comment", reason);
        }

        this.text = text;
        return this;
    }

    /**
     * This returns a String representation of the
     * Comment, suitable for debugging. If the XML
     * representation of the Comment is desired,
     * { @link org.jdom.output.XMLOutputter#outputString(Comment) }
     * should be used.
     *
     * @return String - information about the
     *         Attribute
     */
    public String toString() {
        return new StringBuffer()
            .append("[Comment: ")
            .append(new org.jdom.output.XMLOutputter().outputString(this))
            .append("]")
            .toString();
    }
}

```

## 1.533 jep 2.23M

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## 1.542 JfreeChart 1.0.12

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## 1.546 JNA 4.0.0

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Modified by Atlassian

The binary file of the original library has been modified by Atlassian in such way that classes have changed their package names from the 'antlr.\*' to the 'clover.antlr.\*'. This was necessary to avoid potential name conflicts during instrumentation of a code using the original library when using Clover.  
No source code of the original library was modified.

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The primary ANTLR guy:

Terence Parr  
parrt@cs.usfca.edu  
parrt@antlr.org

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File: Core.js

Description:

Provides common utility functions and the Class object used internally by the library.

Also provides the <TreeUtil> object for manipulating JSON tree structures

Some of the Basic utility functions and the Class system are based in the MooTools Framework  
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```

```
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#

# Calling this script install-sh is preferred over install.sh, to prevent  
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# when there is no Makefile.

#

# This script is compatible with the BSD install script, but was written  
# from scratch. It can only install one file at a time, a restriction  
# shared with many OS's install progra

/\* -----

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## 1.558 jradius-core-1.1.4 1.1.4

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# 1.561 jrobin 1.5.14

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That's all there is to it!

```
/* =====
* JRobin : Pure java implementation of RRDTool's functionality
* =====
*
* Project Info: http://www.jrobin.org
* Project Lead: Sasa Markovic (saxon@jrobin.org);
*
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 \* Boston, MA 02111-1307, USA.  
 \*/

```
package org.jrobin.core;
```

```
/**
```

```
* Class to represent single archive definition within the RRD.  

* Archive definition consists of the following four elements:  

*  

* <ul>  

* <li>consolidation function  

* <li>X-files factor  

* <li>number of steps  

* <li>number of rows.  

* </ul>  

* <p>For the complete explanation of all archive definition parameters, see RRDTool's  

* <a href="http://www.muhimbi.com/Articles/RRDTool-man-page.aspx" target="man">rrdcreate man page</a>  

* </p>  

*  

* @author <a href="mailto:saxon@jrobin.org">Sasa Markovic</a>  

*/
```

```
public class ArcDef {  

  /** array of valid consolidation function names */  

  public static final String CONSOL_FUNS[] = { "AVERAGE", "MAX", "MIN", "LAST" };
```

```
  private String consolFun;  

  private double xff;  

  private int steps, rows;
```

```
  /**
```

```
* <p>Creates new archive definition object. This object should be passed as argument to  

* { @link org.jrobin.core.RrdDef#addArchive(org.jrobin.core.ArcDef) addArchive()} method of  

* { @link org.jrobin.core.RrdDb RrdDb} object.</p>  

*  

* <p>For the complete explanation of all archive definition parameters, see RRDTool's  

* <a href="http://www.muhimbi.com/Articles/RRDTool-man-page.aspx" target="man">rrdcreate man page</a></p>  

*  

* @param consolFun Consolidation function. Allowed values are "AVERAGE", "MIN",  

* "MAX" and "LAST".  

* @param xff X-files factor, between 0 and 1.  

* @param steps Number of archive steps.
```

```

* @param rows Number of archive rows.
* @throws RrdException Thrown if any parameter has illegal value.
*/
public ArcDef(String consolFun, double xff, int steps, int rows) throws RrdException {
    this.consolFun = consolFun;
    this.xff = xff;
    this.steps = steps;
    this.rows = rows;
    validate();
}

/**
* Returns consolidation function.
* @return Consolidation function.
*/
public String getConsolFun() {
    return consolFun;
}

/**
* Returns the X-files factor.
* @return X-files factor value.
*/
public double getXff() {
    return xff;
}

/**
* Returns the number of primary RRD steps which complete a single archive step.
* @return Number of steps.
*/
public int getSteps() {
    return steps;
}

/**
* Returns the number of rows (aggregated values) stored in the archive.
* @return Number of rows.
*/
public int getRows() {
    return rows;
}

private void validate() throws RrdException {
    if(!isValidConsolFun(consolFun)) {
        throw new RrdException("Invalid consolidation function specified: " + consolFun);
    }
    if(Double.isNaN(xff) || xff < 0.0 || xff >= 1.0) {

```

```

    throw new RrdException("Invalid xff, must be >= 0 and < 1: " + xff);
}
if(steps <= 0 || rows <= 0) {
    throw new RrdException("Invalid steps/rows number: " + steps + "/" + rows);
}
}

/**
 * Returns string representing archive definition (RRDTool format).
 * @return String containing all archive definition parameters.
 */
public String dump() {
    return "RRA:" + consolFun + ":" + xff + ":" + steps + ":" + rows;
}

/**
 * Checks if two archive definitions are equal.
 * Archive definitions are considered equal if they have the same number of steps
 * and the same consolidation function. It is not possible to create RRD with two
 * equal archive definitions.
 * @param obj Archive definition to compare with.
 * @return <code>true</code> if archive definitions are equal,
 * <code>false</code> otherwise.
 */
public boolean equals(Object obj) {
    if(obj instanceof ArcDef) {
        ArcDef arcObj = (ArcDef) obj;
        return consolFun.equals(arcObj.consolFun) && steps == arcObj.steps;
    }
    return false;
}

/**
 * Checks if function argument represents valid consolidation function name.
 * @param consolFun Consolidation function to be checked
 * @return <code>true</code> if <code>consolFun</code> is valid consolidation function,
 * <code>false</code> otherwise.
 */
public static boolean isValidConsolFun(String consolFun) {
    for(int i = 0; i < CONSOL_FUNS.length; i++) {
        if(CONSOL_FUNS[i].equals(consolFun)) {
            return true;
        }
    }
    return false;
}

void setRows(int rows) {

```

```
this.rows = rows;
}

boolean exactlyEqual(ArcDef def) {
return consolFun.equals(def.consolFun) && xff == def.xff &&
steps == def.steps && rows == def.rows;
}
}
```

## 1.562 jruby-jars 1.7.9

### 1.562.1 Available under license :

JRuby is tri-licensed GPL, LGPL, and EPL.

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## 1.567 json 20090211

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## 1.569 JSON in Java [package org.json] 2011-02-02

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```

```
/*
```

```
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```

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\*/

/\*\*

\* This provides static methods to convert comma delimited text into a  
\* JSONArray, and to convert a JSONArray into comma delimited text. Comma  
\* delimited text is a very popular format for data interchange. It is  
\* understood by most database, spreadsheet, and organizer programs.

\* <p>

\* Each row of text represents a row in a table or a data record. Each row  
\* ends with a NEWLINE character. Each row contains one or more values.  
\* Values are separated by commas. A value can contain any character except  
\* for comma, unless it is wrapped in single quotes or double quotes.

\* <p>

\* The first row usually contains the names of the columns.

\* <p>

\* A comma delimited list can be converted into a JSONArray of JSONObject.  
\* The names for the elements in the JSONObject can be taken from the names  
\* in the first row.

\* @author JSON.org

\* @version 2010-12-24

\*/

```
public class CDL {
```

```
    /**
```

```
     * Get the next value. The value can be wrapped in quotes. The value can  
     * be empty.
```

```
     * @param x A JSONObject of the source text.
```

```
     * @return The value string, or null if empty.
```

```
     * @throws JSONException if the quoted string is badly formed.
```

```
    */
```

```
    private static String getValue(JSONObject x) throws JSONException {
```

```
        char c;
```

```
        char q;
```

```
        StringBuffer sb;
```

```
        do {
```

```
            c = x.next();
```

```
        } while (c == ' ' || c == '\t');
```

```
        switch (c) {
```

```
        case 0:
```

```
            return null;
```

```

case '"':
case '\':
    q = c;
    sb = new StringBuffer();
    for (;;) {
        c = x.next();
        if (c == q) {
            break;
        }
        if (c == 0 || c == '\n' || c == '\r') {
            throw x.syntaxError("Missing close quote '" + q + "'");
        }
        sb.append(c);
    }
    return sb.toString();
case ',':
    x.back();
    return "";
default:
    x.back();
    return x.nextTo(',');
}
}

/**
 * Produce a JSONArray of strings from a row of comma delimited values.
 * @param x A JSONTokener of the source text.
 * @return A JSONArray of strings.
 * @throws JSONException
 */
public static JSONArray rowToJSONArray(JSONTokener x) throws JSONException {
    JSONArray ja = new JSONArray();
    for (;;) {
        String value = getValue(x);
        char c = x.next();
        if (value == null ||
            (ja.length() == 0 && value.length() == 0 && c != ',')) {
            return null;
        }
        ja.put(value);
        for (;;) {
            if (c == ',') {
                break;
            }
            if (c != ' ') {
                if (c == '\n' || c == '\r' || c == 0) {
                    return ja;
                }
            }
        }
    }
}

```

```

        throw x.syntaxError("Bad character '" + c + "' (" +
            (int)c + ").");
    }
    c = x.next();
}
}
}

/**
 * Produce a JSONObject from a row of comma delimited text, using a
 * parallel JSONArray of strings to provides the names of the elements.
 * @param names A JSONArray of names. This is commonly obtained from the
 * first row of a comma delimited text file using the rowToJSONArray
 * method.
 * @param x A JSONTokener of the source text.
 * @return A JSONObject combining the names and values.
 * @throws JSONException
 */
public static JSONObject rowToJSONObject(JSONArray names, JSONTokener x)
    throws JSONException {
    JSONArray ja = rowToJSONArray(x);
    return ja != null ? ja.toJSONObject(names) : null;
}

/**
 * Produce a comma delimited text row from a JSONArray. Values containing
 * the comma character will be quoted. Troublesome characters may be
 * removed.
 * @param ja A JSONArray of strings.
 * @return A string ending in NEWLINE.
 */
public static String rowToString(JSONArray ja) {
    StringBuffer sb = new StringBuffer();
    for (int i = 0; i < ja.length(); i += 1) {
        if (i > 0) {
            sb.append(',');
        }
        Object object = ja.opt(i);
        if (object != null) {
            String string = object.toString();
            if (string.length() > 0 && (string.indexOf(',') >= 0 ||
                string.indexOf('\n') >= 0 || string.indexOf('\r') >= 0 ||
                string.indexOf(0) >= 0 || string.charAt(0) == '"')) {
                sb.append("\"");
            }
            int length = string.length();
            for (int j = 0; j < length; j += 1) {
                char c = string.charAt(j);
                if (c >= ' ' && c != '"') {

```

```

        sb.append(c);
    }
}
sb.append("");
} else {
    sb.append(string);
}
}
}
sb.append('\n');
return sb.toString();
}

/**
 * Produce a JSONArray of JSONObject objects from a comma delimited text string,
 * using the first row as a source of names.
 * @param string The comma delimited text.
 * @return A JSONArray of JSONObject objects.
 * @throws JSONException
 */
public static JSONArray toJSONArray(String string) throws JSONException {
    return toJSONArray(new JSONObject(string));
}

/**
 * Produce a JSONArray of JSONObject objects from a comma delimited text string,
 * using the first row as a source of names.
 * @param x The JSONObject containing the comma delimited text.
 * @return A JSONArray of JSONObject objects.
 * @throws JSONException
 */
public static JSONArray toJSONArray(JSONObject x) throws JSONException {
    return toJSONArray(rowToJSONArray(x), x);
}

/**
 * Produce a JSONArray of JSONObject objects from a comma delimited text string
 * using a supplied JSONArray as the source of element names.
 * @param names A JSONArray of strings.
 * @param string The comma delimited text.
 * @return A JSONArray of JSONObject objects.
 * @throws JSONException
 */
public static JSONArray toJSONArray(JSONArray names, String string)
    throws JSONException {
    return toJSONArray(names, new JSONObject(string));
}

```

```

/**
 * Produce a JSONArray of JSONObject from a comma delimited text string
 * using a supplied JSONArray as the source of element names.
 * @param names A JSONArray of strings.
 * @param x A JSONTokener of the source text.
 * @return A JSONArray of JSONObject.
 * @throws JSONException
 */
public static JSONArray toJSONArray(JSONArray names, JSONTokener x)
    throws JSONException {
    if (names == null || names.length() == 0) {
        return null;
    }
    JSONArray ja = new JSONArray();
    for (;;) {
        JSONObject jo = rowToJSONObject(names, x);
        if (jo == null) {
            break;
        }
        ja.put(jo);
    }
    if (ja.length() == 0) {
        return null;
    }
    return ja;
}

```

```

/**
 * Produce a comma delimited text from a JSONArray of JSONObject. The
 * first row will be a list of names obtained by inspecting the first
 * JSONObject.
 * @param ja A JSONArray of JSONObject.
 * @return A comma delimited text.
 * @throws JSONException
 */

```

```

public static String toString(JSONArray ja) throws JSONException {
    JSONObject jo = ja.optJSONObject(0);
    if (jo != null) {
        JSONArray names = jo.names();
        if (names != null) {
            return rowToString(names) + toString(names, ja);
        }
    }
    return null;
}

```

```

/**

```

```

* Produce a comma delimited text from a JSONArray of JSONObject using
* a provided list of names. The list of names is not included in the
* output.
* @param names A JSONArray of strings.
* @param ja A JSONArray of JSONObject.
* @return A comma delimited text.
* @throws JSONException
*/
public static String toString(JSONArray names, JSONArray ja)
    throws JSONException {
    if (names == null || names.length() == 0) {
        return null;
    }
    StringBuffer sb = new StringBuffer();
    for (int i = 0; i < ja.length(); i += 1) {
        JSONObject jo = ja.optJSONObject(i);
        if (jo != null) {
            sb.append(rowToString(jo.toJSONArray(names)));
        }
    }
    return sb.toString();
}
}

```

## 1.570 json-lib 2.4

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```

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# 1.571 json-lib 2.3

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# 1.581 JTar 1.0.3

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# 1.584 junit 3.8.2

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In October 2000 Barry helped move the software to SourceForge where it was renamed to Jython. Jython 2.0 and 2.1 were developed under the Jython specific license below.

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#
# Modified by Jack Jansen, CWI, July 1995:
# - Use binascii module to do the actual line-by-line conversion
#   between ascii and binary. This results in a 1000-fold speedup. The C
#   version is still 5 times faster, though.
# - Arguments more compliant with python standard
#-----
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#-----
#
```

```
# Module Name: dbShelve.py
#
# Description: A reimplementaion of the standard shelve.py that
#             forces the use of cPickle, and DB.
#
# Creation Date: 11/3/97 3:39:04PM
#
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#
# 13-Dec-2000: Updated to be used with the new bsddb3 package.
#             Added DBShelfCursor class.
#
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# 1.590 jzlib 1.0.7

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```
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/*
```

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```
*/
```

```
/*
```

```
* This program is based on zlib-1.1.3, so all credit should go authors  
* Jean-loup Gailly(jloup@gzip.org) and Mark Adler(madler@alumni.caltech.edu)  
* and contributors of zlib.
```

```
*/
```

```
package com.jcraft.jzlib;
```

```
final class Adler32{
```

```
    // largest prime smaller than 65536  
    static final private int BASE=65521;  
    // NMAX is the largest n such that 255n(n+1)/2 + (n+1)(BASE-1) <= 2^32-1  
    static final private int NMAX=5552;
```

```

long Adler32(long Adler, byte[] buf, int index, int len){
    if(buf == null){ return 1L; }

    long s1=Adler&0xffff;
    long s2=(Adler>>16)&0xffff;
    int k;

    while(len > 0) {
        k=len<NMAX?len:NMAX;
        len-=k;
        while(k>=16){
            s1+=buf[index++]&0xff; s2+=s1;
            s1+=buf[index++]&0xff; s2+=s1;
            s1+=buf[index++]&0xff; s2+=s1;
            s1+=buf[index++]&0xff; s2+=s1;
            s1+=buf[index++]&0xff; s2+=s1;
            s1+=buf[index++]&0xff; s2+=s1;
            s1+=buf[index++]&0xff; s2+=s1;
            s1+=buf[index++]&0xff; s2+=s1;
            s1+=buf[index++]&0xff; s2+=s1;
            s1+=buf[index++]&0xff; s2+=s1;
            s1+=buf[index++]&0xff; s2+=s1;
            s1+=buf[index++]&0xff; s2+=s1;
            s1+=buf[index++]&0xff; s2+=s1;
            s1+=buf[index++]&0xff; s2+=s1;
            s1+=buf[index++]&0xff; s2+=s1;
            k-=16;
        }
        if(k!=0){
            do{
                s1+=buf[index++]&0xff; s2+=s1;
            }
            while(--k!=0);
        }
        s1%=BASE;
        s2%=BASE;
    }
    return (s2<<16)|s1;
}

/*
private java.util.zip.Adler32 Adler=new java.util.zip.Adler32();
long Adler32(long value, byte[] buf, int index, int len){
    if(value==1) { Adler.reset();}
    if(buf==null) { Adler.reset();}
    else{ Adler.update(buf, index, len);}
    return Adler.getValue();
}

```

```
}  
*/  
}
```

## 1.591 JZlib 1.1.2

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```
/*
```

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```
*/
```

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for merging the nxt2002 and nxt2004 modules into a  
single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a  
line to the DVB mailing list)

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```
/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
```

\* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997  
\*  
\* Linux driver for the IDT77201 NICStAR PCI ATM controller.  
\* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;  
\* see init\_nicstar() for PHY initialization to change this. This driver  
\* expects the Linux ATM stack to support scatter-gather lists  
\* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.  
\*  
\* Implementing minimal-copy of received data:  
\* IDT always receives data into a small buffer, then large buffers  
\* as needed. This means that data must always be copied to create  
\* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)  
\* Fix is simple: make large buffers large enough to hold entire  
\* SDU, and leave <small\_buffer\_data> bytes empty at the start. Then  
\* copy small buffer contents to head of large buffer.  
\* Trick is to avoid fragmenting Linux, due to need for a lot of large  
\* buffers. This is done by 2 things:  
\* 1) skb->destructor / skb->atm.recycle\_buffer  
\* combined, allow nicstar\_free\_rx\_skb to be called to  
\* recycle large data buffers  
\* 2) skb\_clone of received buffers  
\* See nicstar\_free\_rx\_skb and linearize\_buffer for implementation  
\* details.  
\*  
\*  
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\* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.  
\*  
\* M. Welsh, 6 July 1996  
\*  
\*  
\*/  
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## 1.593 Keyczar 0.66 :03.15.10

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```
cmd/krb5/iprof/iprof.x
cmd/krb5/iprof/iprof_hdr.h
cmd/krb5/kadmin/server/iprofd_svc.c
cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
lib/libgss/g_export_name.c
```



lib/libgss/g\_glue.c  
lib/libgss/g\_imp\_name.c  
lib/libgss/g\_imp\_sec\_context.c  
lib/libgss/g\_init\_sec\_context.c  
lib/libgss/g\_initialize.c  
lib/libgss/g\_inquire\_context.c  
lib/libgss/g\_inquire\_cred.c  
lib/libgss/g\_inquire\_names.c  
lib/libgss/g\_process\_context.c  
lib/libgss/g\_rel\_buffer.c  
lib/libgss/g\_rel\_cred.c  
lib/libgss/g\_rel\_name.c  
lib/libgss/g\_rel\_oid\_set.c  
lib/libgss/g\_seal.c  
lib/libgss/g\_sign.c  
lib/libgss/g\_store\_cred.c  
lib/libgss/g\_unseal.c  
lib/libgss/g\_userok.c  
lib/libgss/g\_utils.c  
lib/libgss/g\_verify.c  
lib/libgss/gssd\_pname\_to\_uid.c  
uts/common/gssapi/include/gssapi\_err\_generic.h  
uts/common/gssapi/include/mechglueP.h

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```
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```

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```
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```

<signature of Ty Coon>, 1 April 1989

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in ``src/lib/gssapi'`, including the following files:

- lib/gssapi/generic/gssapi\_err\_generic.et
- lib/gssapi/mechglue/g\_accept\_sec\_context.c
- lib/gssapi/mechglue/g\_acquire\_cred.c
- lib/gssapi/mechglue/g\_canon\_name.c
- lib/gssapi/mechglue/g\_compare\_name.c
- lib/gssapi/mechglue/g\_context\_time.c
- lib/gssapi/mechglue/g\_delete\_sec\_context.c
- lib/gssapi/mechglue/g\_dsp\_name.c
- lib/gssapi/mechglue/g\_dsp\_status.c
- lib/gssapi/mechglue/g\_dup\_name.c
- lib/gssapi/mechglue/g\_exp\_sec\_context.c
- lib/gssapi/mechglue/g\_export\_name.c
- lib/gssapi/mechglue/g\_glue.c
- lib/gssapi/mechglue/g\_imp\_name.c
- lib/gssapi/mechglue/g\_imp\_sec\_context.c
- lib/gssapi/mechglue/g\_init\_sec\_context.c
- lib/gssapi/mechglue/g\_initialize.c
- lib/gssapi/mechglue/g\_inquire\_context.c
- lib/gssapi/mechglue/g\_inquire\_cred.c
- lib/gssapi/mechglue/g\_inquire\_names.c
- lib/gssapi/mechglue/g\_process\_context.c

lib/gssapi/mechglue/g\_rel\_buffer.c  
lib/gssapi/mechglue/g\_rel\_cred.c  
lib/gssapi/mechglue/g\_rel\_name.c  
lib/gssapi/mechglue/g\_rel\_oid\_set.c  
lib/gssapi/mechglue/g\_seal.c  
lib/gssapi/mechglue/g\_sign.c  
lib/gssapi/mechglue/g\_store\_cred.c  
lib/gssapi/mechglue/g\_unseal.c  
lib/gssapi/mechglue/g\_userok.c  
lib/gssapi/mechglue/g\_utils.c  
lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprof\_hdr.h  
kadmin/server/iprofd\_svc.c  
lib/kdb/iprof.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
lib/krb5/error\_tables/kdb5\_err.et  
slave/kpropd\_rpc.c  
slave/kproplog.c

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# 1.596 libcap-ng\_LGPL 0.6.4 :3.el6\_0.1

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# 1.597 libdc1394/gplv3-example-manpages

## 2.1.2 :3.4.el6

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```
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```

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 *
 */
```

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```
#!/usr/bin/perl
# -*- Mode: perl -*-
#=====
# FILE: Component.pm
# CREATOR: eric 1 Mar 01
#
# DESCRIPTION:
#
#
# $Id: Component.pm,v 1.4 2001-04-11 04:45:28 ebusboom Exp $
# $Locker: $
#
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#
#
#=====
```

## 1.601 libidn/gplv3-portions 1.18 :2.el6

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linux/include/libreswan.h, linux/include/libreswan/ipsec\_kversion.h,  
linux/include/libreswan/ipsec\_param2.h,  
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linux/net/ipsec/addrtot.c, linux/net/ipsec/addrtypeof.c,  
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linux/net/ipsec/infcodes.c, linux/net/ipsec/infcodes.h,  
linux/net/ipsec/deflate.c, linux/net/ipsec/deflate.h,  
linux/net/ipsec/trees.c, linux/net/ipsec/infblock.c,  
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\* lib/libcrypto/liblswcrypto/cryptodev.c

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\* linux/include/libreswan/pfkeyv2.h

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# 1.608 Linux Integration Services for Hyper-V

## 4.1.3

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## 1.627 LZ4 1.2.0 :r119

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Streaming API for XML (JSR-173) Specification

Reference Implementation

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/\*\*

\* NTLMResponses.java - Calculates the various Type 3 responses. Needs an MD4, MD5 and DES

\* crypto provider (Please note that default provider doesn't provide MD4).

\*

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\* @see <http://curl.haxx.se/rfc/ntlm.html>

\*

\* @author <a href="http://mina.apache.org">Apache MINA Project</a>

\* @since MINA 2.0.0-M3

## 1.643 mod\_jk 1.2.31 :1.2.31

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```
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* cvt - IEEE floating point formatting routines.  
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## 1.644 mqtt-client 1.3



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# 1.647 nailgun-server 0.9.1

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# 1.648 naming-factory 5.5.23

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16. [17]John A. Dundas III <dundas@salt.jpl.nasa.gov> Apple A/UX port
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31. [34]Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver
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33. [36]Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
34. [37]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
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36. [39]David L. Mills <mills@udel.edu> Version 4 foundation: clock discipline, authentication, precision kernel; clock drivers: Spectracom, Austron, Arbiter, Heath, ATOM, ACTS, KSI/Odetics; audio clock drivers: CHU, WWV/H, IRIG
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44. [48]Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
45. [49]Wilfredo Snchez <wsanchez@apple.com> added support for NetInfo
46. [50]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
47. [51]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
48. [52]Ray Schnitzler <schnitz@unipress.com> Unixware1 port
49. [53]Michael Shields <shields@tembel.org> USNO clock driver
50. [54]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
51. [55]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
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53. [57]Ajit Thyagarajan <ajit@ee.udel.edu>IP multicast/anycast support
  54. [58]Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp>TRAK clock driver
  55. [59]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
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## 1.666 org-netbeans-lib-cvsclient 1.9

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## 1.671 org.springframework.asm

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# 1.678 org.springframework.jdbc

## 3.0.0.RELEASE

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# 1.679 org.springframework.oxm 3.0.0

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Daniel Savarese <[dfs at savarese.org](mailto:dfs@savarese.org)> is the original author of the  
 OROMatcher, PerlTools, AwkTools, and TextTools packages that became  
 the Jakarta-ORO project.

Jon Stevens <[jon at collab.net](mailto:jon@collab.net)> helped prepare the first release of  
 jakarta-oro and is a constant help in keeping the project consistent

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Mark Murphy <markm at tyrell.com> has contributed performance improvements to Perl5Substitution as well as adding support for \UuLIE and escaping of \$.

Michael Davey <michael.davey at coderage.org> fixed some documentation and added a missing int substitute(...) method to Perl5Util.

Harald Kuhn <harald at ontopia.net> updated MatchActionProcessor.processMatches() to accommodate character encodings.

# 1.686 OSGI Core 1.2.0

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/\*

\* \$Header: /cvshome/build/org.osgi.framework/src/org/osgi/framework/Bundle.java,v 1.54 2007/02/21 16:49:05

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\*/

```
package org.osgi.framework;
```

```
import java.io.IOException;
```

```
import java.io.InputStream;
```

```
import java.net.URL;
```

```
import java.util.Dictionary;
```

```
import java.util.Enumeration;
```

```
/**
```

```
 * An installed bundle in the Framework.
```

```
 *
```

```
 * <p>
```

```
 * A Bundle object is the access point to define the lifecycle of  
 * an installed bundle. Each bundle installed in the OSGi environment must have  
 * an associated Bundle object.
```

```
 *
```

```
 * <p>
```

```
 * A bundle must have a unique identity, a long, chosen by the  
 * Framework. This identity must not change during the lifecycle of a bundle,  
 * even when the bundle is updated. Uninstalling and then reinstalling the  
 * bundle must create a new unique identity.
```

```
 *
```

```
 * <p>
```

```
 * A bundle can be in one of six states:
```

```
 * <ul>
```

```
 * <li>{ @link #UNINSTALLED }
```

```
 * <li>{ @link #INSTALLED }
```

```
 * <li>{ @link #RESOLVED }
```

```
 * <li>{ @link #STARTING }
```

```
 * <li>{ @link #STOPPING }
```

```
 * <li>{ @link #ACTIVE }
```

```
 * </ul>
```

```
 * <p>
```

```
 * Values assigned to these states have no specified ordering; they represent  
 * bit values that may be ORed together to determine if a bundle is in one of  
 * the valid states.
```

```
 *
```

```
 * <p>
```

```
 * A bundle should only execute code when its state is one of  
 * STARTING, ACTIVE, or STOPPING.  
 * An UNINSTALLED bundle can not be set to another state; it is a  
 * zombie and can only be reached because references are kept somewhere.
```

```
 *
```

```
 * <p>
```

```
 * The Framework is the only entity that is allowed to create
```

```

* <code>Bundle</code> objects, and these objects are only valid within the
* Framework that created them.
*
* @ThreadSafe
* @version $Revision: 1.54 $
*/
public interface Bundle {
/**
* The bundle is uninstalled and may not be used.
*
* <p>
* The <code>UNINSTALLED</code> state is only visible after a bundle is
* uninstalled; the bundle is in an unusable state but references to the
* <code>Bundle</code> object may still be available and used for
* introspection.
* <p>
* The value of <code>UNINSTALLED</code> is 0x00000001.
*/
public static final int UNINSTALLED = 0x00000001;

/**
* The bundle is installed but not yet resolved.
*
* <p>
* A bundle is in the <code>INSTALLED</code> state when it has been
* installed in the Framework but is not or cannot be resolved.
* <p>
* This state is visible if the bundle's code dependencies are not resolved.
* The Framework may attempt to resolve an <code>INSTALLED</code> bundle's
* code dependencies and move the bundle to the <code>RESOLVED</code>
* state.
* <p>
* The value of <code>INSTALLED</code> is 0x00000002.
*/
public static final int INSTALLED = 0x00000002;

/**
* The bundle is resolved and is able to be started.
*
* <p>
* A bundle is in the <code>RESOLVED</code> state when the Framework has
* successfully resolved the bundle's code dependencies. These dependencies
* include:
* <ul>
* <li>The bundle's class path from its { @link Constants#BUNDLE_CLASSPATH}
* Manifest header.
* <li>The bundle's package dependencies from its
* { @link Constants#EXPORT_PACKAGE} and { @link Constants#IMPORT_PACKAGE}

```

- \* Manifest headers.
- \* - The bundle's required bundle dependencies from its
- { @link Constants#REQUIRE\_BUNDLE } Manifest header.
- A fragment bundle's host dependency from its
- { @link Constants#FRAGMENT\_HOST } Manifest header.

\* </ul>

\* <p>

\* Note that the bundle is not active yet. A bundle must be put in the

\* <code>RESOLVED</code> state before it can be started. The Framework may

\* attempt to resolve a bundle at any time.

\* <p>

\* The value of <code>RESOLVED</code> is 0x00000004.

\*/

```
public static final int RESOLVED = 0x00000004;
```

```
/**
```

\* The bundle is in the process of starting.

\*

\* <p>

\* A bundle is in the <code>STARTING</code> state when its

\* { @link #start(int) start } method is active. A bundle must be in this

\* state when the bundle's { @link BundleActivator#start } is called. If the

\* <code>BundleActivator.start</code> method completes without exception,

\* then the bundle has successfully started and must move to the

\* <code>ACTIVE</code> state.

\* <p>

\* If the bundle has a

\* { @link Constants#ACTIVATION\_LAZY lazy activation policy }, then the

\* bundle may remain in this state for some time until the activation is

\* triggered.

\* <p>

\* The value of <code>STARTING</code> is 0x00000008.

\*/

```
public static final int STARTING = 0x00000008;
```

```
/**
```

\* The bundle is in the process of stopping.

\*

\* <p>

\* A bundle is in the <code>STOPPING</code> state when its

\* { @link #stop(int) stop } method is active. A bundle must be in this state

\* when the bundle's { @link BundleActivator#stop } method is called. When the

\* <code>BundleActivator.stop</code> method completes the bundle is

\* stopped and must move to the <code>RESOLVED</code> state.

\* <p>

\* The value of <code>STOPPING</code> is 0x00000010.

\*/

```
public static final int STOPPING = 0x00000010;
```

```

/**
 * The bundle is now running.
 *
 * <p>
 * A bundle is in the <code>ACTIVE</code> state when it has been
 * successfully started and activated.
 * <p>
 * The value of <code>ACTIVE</code> is 0x00000020.
 */
public static final int ACTIVE    = 0x00000020;

/**
 * The bundle start operation is transient and the persistent autostart
 * setting of the bundle is not modified.
 *
 * <p>
 * This bit may be set when calling { @link #start(int) } to notify the
 * framework that the autostart setting of the bundle must not be modified.
 * If this bit is not set, then the autostart setting of the bundle is
 * modified.
 *
 * @since 1.4
 * @see #start(int)
 */
public static final int START_TRANSIENT = 0x00000001;

/**
 * The bundle start operation must activate the bundle according to the
 * bundle's declared
 * { @link Constants#BUNDLE_ACTIVATIONPOLICY activation policy}.
 *
 * <p>
 * This bit may be set when calling { @link #start(int) } to notify the
 * framework that the bundle must be activated using the bundle's declared
 * activation policy.
 *
 * @since 1.4
 * @see Constants#BUNDLE_ACTIVATIONPOLICY
 * @see #start(int)
 */
public static final int START_ACTIVATION_POLICY = 0x00000002;

/**
 * The bundle stop is transient and the persistent autostart setting of the
 * bundle is not modified.
 *
 * <p>

```

```

* This bit may be set when calling { @link #stop(int) } to notify the
* framework that the autostart setting of the bundle must not be modified.
* If this bit is not set, then the autostart setting of the bundle is
* modified.
*
* @since 1.4
* @see #stop(int)
*/
public static final int STOP_TRANSIENT = 0x00000001;

/**
* Returns this bundle's current state.
*
* <p>
* A bundle can be in only one state at any time.
*
* @return An element of <code>UNINSTALLED</code>,<code>INSTALLED</code>,&br/>
* <code>RESOLVED</code>,<code>STARTING</code>,&br/>
* <code>STOPPING</code>,<code>ACTIVE</code>.
*/
public int getState();

/**
* Starts this bundle.
*
* <p>
* If this bundle's state is <code>UNINSTALLED</code> then an  

* <code>IllegalStateException</code> is thrown.
* <p>
* If the Framework implements the optional Start Level service and the  

* current start level is less than this bundle's start level:
* <ul>
* <li>If the { @link #START_TRANSIENT } option is set, then a  

* <code>BundleException</code> is thrown indicating this bundle cannot be  

* started due to the Framework's current start level.
*
* <li>Otherwise, the Framework must set this bundle's persistent autostart  

* setting to <em>Started with declared activation</em> if the  

* { @link #START_ACTIVATION_POLICY } option is set or  

* <em>Started with eager activation</em> if not set.
* </ul>
* <p>
* When the Framework's current start level becomes equal to or more than  

* this bundle's start level, this bundle will be started.
* <p>
* Otherwise, the following steps are required to start this bundle:
* <ol>
* <li>If this bundle is in the process of being activated or deactivated

```

\* then this method must wait for activation or deactivation to complete

\* before continuing. If this does not occur in a reasonable time, a

\* `BundleException` is thrown to indicate this bundle was

\* unable to be started.

\*

\* *If this bundle's state is `ACTIVE` then this method*

\* returns immediately.

\*

\* *If the { @link #START\_TRANSIENT } option is not set then set this*

\* *bundle's autostart setting to `Started with declared activation`*

\* *if the { @link #START\_ACTIVATION\_POLICY } option is set or*

\* *`Started with eager activation` if not set. When the Framework*

\* *is restarted and this bundle's autostart setting is not `Stopped`,*

\* *this bundle must be automatically started.*

\*

\* *If this bundle's state is not `RESOLVED`, an attempt*

\* *is made to resolve this bundle. If the Framework cannot resolve this*

\* *bundle, a `BundleException` is thrown.*

\*

\* *If the { @link #START\_ACTIVATION\_POLICY } option is set and this*

\* *bundle's declared activation policy is*

\* *{ @link Constants#ACTIVATION\_LAZY lazy } then:*

\*

\* *If this bundle's state is `STARTING` then this method*

\* *returns immediately.*

\* *This bundle's state is set to `STARTING`.*

\* *A bundle event of type { @link BundleEvent#LAZY\_ACTIVATION } is fired.*

\* *This method returns immediately and the remaining steps will be*

\* *followed when this bundle's activation is later triggered.*

\*

\*

\* *This bundle's state is set to `STARTING`.*

\*

\* *A bundle event of type { @link BundleEvent#STARTING } is fired.*

\*

\* *The { @link BundleActivator#start } method of this bundle's*

\* *`BundleActivator`, if one is specified, is called. If the*

\* *`BundleActivator` is invalid or throws an exception then:*

\*

\* *This bundle's state is set to `STOPPING`.*

\* *A bundle event of type { @link BundleEvent#STOPPING } is fired.*

\* *Any services registered by this bundle must be unregistered.*

\* *Any services used by this bundle must be released.*

\* *Any listeners registered by this bundle must be removed.*

\* *This bundle's state is set to `RESOLVED`.*

\* *A bundle event of type { @link BundleEvent#STOPPED } is fired.*

\* *A `BundleException` is then thrown.*

\*

```

* <i></i>
* <li>If this bundle's state is <code>UNINSTALLED</code>, because this
* bundle was uninstalled while the <code>BundleActivator.start</code>
* method was running, a <code>BundleException</code> is thrown.
*
* <li>This bundle's state is set to <code>ACTIVE</code>.
*
* <li>A bundle event of type { @link BundleEvent#STARTED } is fired.
* </ol>
*
* <b>Preconditions </b>
* <ul>
* <li><code>getState()</code> in { <code>INSTALLED</code>,
* <code>RESOLVED</code> } or { <code>INSTALLED</code>,
* <code>RESOLVED</code>, <code>STARTING</code> } if this bundle has a
* lazy activation policy.
* </ul>
* <b>Postconditions, no exceptions thrown </b>
* <ul>
* <li>Bundle autostart setting is modified unless the
* { @link #START_TRANSIENT } option was set.
* <li><code>getState()</code> in { <code>ACTIVE</code> } unless the
* lazy activation policy was used.
* <li><code>BundleActivator.start()</code> has been called and did not
* throw an exception unless the lazy activation policy was used.
* </ul>
* <b>Postconditions, when an exception is thrown </b>
* <ul>
* <li>Depending on when the exception occurred, bundle autostart setting
* is modified unless the { @link #START_TRANSIENT } option was set.
* <li><code>getState()</code> not in { <code>STARTING</code>,
* <code>ACTIVE</code> }.
* </ul>
*
* @param options The options for starting this bundle. See
*     { @link #START_TRANSIENT } and { @link #START_ACTIVATION_POLICY }.
*     The Framework must ignore unrecognized options.
* @throws BundleException If this bundle could not be started. This could
*     be because a code dependency could not be resolved or the
*     specified <code>BundleActivator</code> could not be loaded or
*     threw an exception or this bundle is a fragment.
* @throws java.lang.IllegalStateException If this bundle has been
*     uninstalled or this bundle tries to change its own state.
* @throws java.lang.SecurityException If the caller does not have the
*     appropriate <code>AdminPermission[this,EXECUTE]</code>, and
*     the Java Runtime Environment supports permissions.
* @since 1.4
*/

```



```
public void start(int options) throws BundleException;
```

```
/**
```

```
 * Starts this bundle with no options.
```

```
 *
```

```
 * <p>
```

```
 * This method calls start(0).
```

```
 *
```

```
 * @throws BundleException If this bundle could not be started. This could
```

```
 * be because a code dependency could not be resolved or the
```

```
 * specified BundleActivator could not be loaded or
```

```
 * threw an exception or this bundle is a fragment.
```

```
 * @throws java.lang.IllegalStateException If this bundle has been
```

```
 * uninstalled or this bundle tries to change its own state.
```

```
 * @throws java.lang.SecurityException If the caller does not have the
```

```
 * appropriate AdminPermission[this,EXECUTE], and
```

```
 * the Java Runtime Environment supports permissions.
```

```
 * @see #start(int)
```

```
 */
```

```
public void start() throws BundleException;
```

```
/**
```

```
 * Stops this bundle.
```

```
 *
```

```
 * <p>
```

```
 * The following steps are required to stop a bundle:
```

```
 * <ol>
```

```
 * <li>If this bundle's state is UNINSTALLED then an
```

```
 * IllegalStateException is thrown.
```

```
 *
```

```
 * <li>If this bundle is in the process of being activated or deactivated
```

```
 * then this method must wait for activation or deactivation to complete
```

```
 * before continuing. If this does not occur in a reasonable time, a
```

```
 * BundleException is thrown to indicate this bundle was
```

```
 * unable to be stopped.
```

```
 * <li>If the { @link #STOP_TRANSIENT } option is not set then then set this
```

```
 * bundle's persistent autostart setting to Stopped. When the
```

```
 * Framework is restarted and this bundle's autostart setting is
```

```
 * Stopped, this bundle must not be automatically started.
```

```
 *
```

```
 * <li>If this bundle's state is not ACTIVE then this method
```

```
 * returns immediately.
```

```
 *
```

```
 * <li>This bundle's state is set to STOPPING.
```

```
 *
```

```
 * <li>A bundle event of type { @link BundleEvent#STOPPING } is fired.
```

```
 *
```

```
 * <li>The { @link BundleActivator#stop } method of this bundle's
```

\* `BundleActivator`, if one is specified, is called. If that

\* method throws an exception, this method must continue to stop this

\* bundle. A `BundleException` must be thrown after completion

\* of the remaining steps.

\*

- \* - Any services registered by this bundle must be unregistered.
- Any services used by this bundle must be released.
- Any listeners registered by this bundle must be removed.

\*

- \* - If this bundle's state is `UNINSTALLED`, because this
- bundle was uninstalled while the `BundleActivator.stop`
- method was running, a `BundleException` must be thrown.

\*

- \* - This bundle's state is set to `RESOLVED`.

\*

- \* - A bundle event of type {[@link BundleEvent#STOPPED](#)} is fired.

\* `</ol>`

\*

\* **Preconditions**

- \* `<ul>`
- \* - `getState()` in {`ACTIVE`}.

\* `</ul>`

\* **Postconditions, no exceptions thrown**

- \* `<ul>`
- \* - Bundle autostart setting is modified unless the
- {[@link #STOP\\_TRANSIENT](#)} option was set.
- `getState()` not in {`ACTIVE`,
- `STOPPING`}.
- `BundleActivator.stop` has been called and did not
- throw an exception.

\* `</ul>`

\* **Postconditions, when an exception is thrown**

- \* `<ul>`
- \* - Bundle autostart setting is modified unless the
- {[@link #STOP\\_TRANSIENT](#)} option was set.

\* `</ul>`

\*

\* **@param options** The options for stopping this bundle. See

\* {[@link #STOP\\_TRANSIENT](#)}. The Framework must ignore unrecognized

\* options.

\* **@throws BundleException** If this bundle's `BundleActivator`

\* threw an exception or this bundle is a fragment.

\* **@throws java.lang.IllegalStateException** If this bundle has been

\* uninstalled or this bundle tries to change its own state.

\* **@throws java.lang.SecurityException** If the caller does not have the

\* appropriate `AdminPermission[this,EXECUTE]`, and

\* the Java Runtime Environment supports permissions.

\* **@since 1.4**

```

*/
public void stop(int options) throws BundleException;

/**
 * Stops this bundle with no options.
 *
 * <p>
 * This method calls stop(0).
 *
 * @throws BundleException If this bundle's BundleActivator
 *     threw an exception or this bundle is a fragment.
 * @throws java.lang.IllegalStateException If this bundle has been
 *     uninstalled or this bundle tries to change its own state.
 * @throws java.lang.SecurityException If the caller does not have the
 *     appropriate AdminPermission[this,EXECUTE], and
 *     the Java Runtime Environment supports permissions.
 * @see #start(int)
 */
public void stop() throws BundleException;

/**
 * Updates this bundle.
 *
 * <p>
 * If this bundle's state is ACTIVE, it must be stopped
 * before the update and started after the update successfully completes.
 *
 * <p>
 * If this bundle has exported any packages, these packages must not be
 * updated. Instead, the previous package version must remain exported until
 * the PackageAdmin.refreshPackages method has been called or the Framework is relaunched.
 *
 * <p>
 * The following steps are required to update a bundle:
 * <ol>
 * <li>If this bundle's state is UNINSTALLED then an
 * IllegalStateException is thrown.
 *
 * <li>If this bundle's state is ACTIVE,
 * STARTING or STOPPING, this bundle is
 * stopped as described in the Bundle.stop method. If
 * Bundle.stop throws an exception, the exception is rethrown
 * terminating the update.
 *
 * <li>The download location of the new version of this bundle is
 * determined from either this bundle's
 * { @link Constants#BUNDLE_UPDATELOCATION } Manifest header (if available) or

```

- \* this bundle's original location.
- \*
- \* `<li>`The location is interpreted in an implementation dependent manner,
- \* typically as a URL, and the new version of this bundle is obtained from
- \* this location.
- \*
- \* `<li>`The new version of this bundle is installed. If the Framework is
- \* unable to install the new version of this bundle, the original version of
- \* this bundle must be restored and a `<code>BundleException</code>` must be
- \* thrown after completion of the remaining steps.
- \*
- \* `<li>`If this bundle has declared an `Bundle-RequiredExecutionEnvironment`
- \* header, then the listed execution environments must be verified against
- \* the installed execution environments. If they do not all match, the
- \* original version of this bundle must be restored and a
- \* `<code>BundleException</code>` must be thrown after completion of the
- \* remaining steps.
- \*
- \* `<li>`This bundle's state is set to `<code>INSTALLED</code>`.
- \*
- \* `<li>`If the new version of this bundle was successfully installed, a
- \* bundle event of type { `@link BundleEvent#UPDATED` } is fired.
- \*
- \* `<li>`If this bundle's state was originally `<code>ACTIVE</code>`, the
- \* updated bundle is started as described in the `<code>Bundle.start</code>`
- \* method. If `<code>Bundle.start</code>` throws an exception, a Framework
- \* event of type { `@link FrameworkEvent#ERROR` } is fired containing the
- \* exception.
- \* `</ol>`
- \*
- \* **Preconditions**
- \* `<ul>`
- \* `<li><code>getState()</code>` not in { `<code>UNINSTALLED</code>` }.
- \* `</ul>`
- \* **Postconditions, no exceptions thrown**
- \* `<ul>`
- \* `<li><code>getState()</code>` in { `<code>INSTALLED</code>`,
- \* `<code>RESOLVED</code>`, `<code>ACTIVE</code>` }.
- \* `<li>`This bundle has been updated.
- \* `</ul>`
- \* **Postconditions, when an exception is thrown**
- \* `<ul>`
- \* `<li><code>getState()</code>` in { `<code>INSTALLED</code>`,
- \* `<code>RESOLVED</code>`, `<code>ACTIVE</code>` }.
- \* `<li>`Original bundle is still used; no update occurred.
- \* `</ul>`
- \*
- \* @throws `BundleException` If the update fails.

```

* @throws java.lang.IllegalStateException If this bundle has been
*     uninstalled or this bundle tries to change its own state.
* @throws java.lang.SecurityException If the caller does not have the
*     appropriate <code>AdminPermission[this,LIFECYCLE]</code> for
*     both the current bundle and the updated bundle, and the Java
*     Runtime Environment supports permissions.
* @see #stop()
* @see #start()
*/
public void update() throws BundleException;

/**
* Updates this bundle from an <code>InputStream</code>.
*
* <p>
* This method performs all the steps listed in <code>Bundle.update()</code>,
* except the new version of this bundle must be read from the supplied
* <code>InputStream</code>, rather than a <code>URL</code>.
* <p>
* This method must always close the <code>InputStream</code> when it is
* done, even if an exception is thrown.
*
* @param in The <code>InputStream</code> from which to read the new
*     bundle.
* @throws BundleException If the provided stream cannot be read or the
*     update fails.
* @throws java.lang.IllegalStateException If this bundle has been
*     uninstalled or this bundle tries to change its own state.
* @throws java.lang.SecurityException If the caller does not have the
*     appropriate <code>AdminPermission[this,LIFECYCLE]</code> for
*     both the current bundle and the updated bundle, and the Java
*     Runtime Environment supports permissions.
* @see #update()
*/
public void update(InputStream in) throws BundleException;

/**
* Uninstalls this bundle.
*
* <p>
* This method causes the Framework to notify other bundles that this bundle
* is being uninstalled, and then puts this bundle into the
* <code>UNINSTALLED</code> state. The Framework must remove any resources
* related to this bundle that it is able to remove.
*
* <p>
* If this bundle has exported any packages, the Framework must continue to
* make these packages available to their importing bundles until the

```

```

* <code>PackageAdmin.refreshPackages</code> method has been called or the
* Framework is relaunched.
*
* <p>
* The following steps are required to uninstall a bundle:
* <ol>
* <li>If this bundle's state is <code>UNINSTALLED</code> then an
* <code>IllegalStateException</code> is thrown.
*
* <li>If this bundle's state is <code>ACTIVE</code>,
* <code>STARTING</code> or <code>STOPPING</code>, this bundle is
* stopped as described in the <code>Bundle.stop</code> method. If
* <code>Bundle.stop</code> throws an exception, a Framework event of type
* { @link FrameworkEvent#ERROR } is fired containing the exception.
*
* <li>This bundle's state is set to <code>UNINSTALLED</code>.
*
* <li>A bundle event of type { @link BundleEvent#UNINSTALLED } is fired.
*
* <li>This bundle and any persistent storage area provided for this bundle
* by the Framework are removed.
* </ol>
*
* <b>Preconditions </b>
* <ul>
* <li><code>getState()</code> not in {<code>UNINSTALLED</code>}.
* </ul>
* <b>Postconditions, no exceptions thrown </b>
* <ul>
* <li><code>getState()</code> in {<code>UNINSTALLED</code>}.
* <li>This bundle has been uninstalled.
* </ul>
* <b>Postconditions, when an exception is thrown </b>
* <ul>
* <li><code>getState()</code> not in {<code>UNINSTALLED</code>}.
* <li>This Bundle has not been uninstalled.
* </ul>
*
* @throws BundleException If the uninstall failed. This can occur if
*     another thread is attempting to change this bundle's state and
*     does not complete in a timely manner.
* @throws java.lang.IllegalStateException If this bundle has been
*     uninstalled or this bundle tries to change its own state.
* @throws java.lang.SecurityException If the caller does not have the
*     appropriate <code>AdminPermission[this,LIFECYCLE]</code>, and
*     the Java Runtime Environment supports permissions.
* @see #stop()
*/

```

```

public void uninstall() throws BundleException;

/**
 * Returns this bundle's Manifest headers and values. This method returns
 * all the Manifest headers and values from the main section of this
 * bundle's Manifest file; that is, all lines prior to the first blank line.
 *
 * <p>
 * Manifest header names are case-insensitive. The methods of the returned
 * <code>Dictionary</code> object must operate on header names in a
 * case-insensitive manner.
 *
 * If a Manifest header value starts with &quot;%&quot;, it must be
 * localized according to the default locale.
 *
 * <p>
 * For example, the following Manifest headers and values are included if
 * they are present in the Manifest file:
 *
 * <pre>
 *   Bundle-Name
 *   Bundle-Vendor
 *   Bundle-Version
 *   Bundle-Description
 *   Bundle-DocURL
 *   Bundle-ContactAddress
 * </pre>
 *
 * <p>
 * This method must continue to return Manifest header information while
 * this bundle is in the <code>UNINSTALLED</code> state.
 *
 * @return A <code>Dictionary</code> object containing this bundle's
 *         Manifest headers and values.
 *
 * @throws java.lang.SecurityException If the caller does not have the
 *         appropriate <code>AdminPermission[this,METADATA]</code>, and
 *         the Java Runtime Environment supports permissions.
 *
 * @see Constants#BUNDLE_LOCALIZATION
 */
public Dictionary getHeaders();

/**
 * Returns this bundle's unique identifier. This bundle is assigned a unique
 * identifier by the Framework when it was installed in the OSGi
 * environment.
 *

```

```

* <p>
* A bundle's unique identifier has the following attributes:
* <ul>
* <li>Is unique and persistent.
* <li>Is a <code>long</code>.
* <li>Its value is not reused for another bundle, even after a bundle is
* uninstalled.
* <li>Does not change while a bundle remains installed.
* <li>Does not change when a bundle is updated.
* </ul>
*
* <p>
* This method must continue to return this bundle's unique identifier while
* this bundle is in the <code>UNINSTALLED</code> state.
*
* @return The unique identifier of this bundle.
*/
public long getBundleId();

/**
* Returns this bundle's location identifier.
*
* <p>
* The location identifier is the location passed to
* <code>BundleContext.installBundle</code> when a bundle is installed.
* The location identifier does not change while this bundle remains
* installed, even if this bundle is updated.
*
* <p>
* This method must continue to return this bundle's location identifier
* while this bundle is in the <code>UNINSTALLED</code> state.
*
* @return The string representation of this bundle's location identifier.
* @throws java.lang.SecurityException If the caller does not have the
*     appropriate <code>AdminPermission[this,METADATA]</code>, and
*     the Java Runtime Environment supports permissions.
*/
public String getLocation();

/**
* Returns this bundle's <code>ServiceReference</code> list for all
* services it has registered or <code>null</code> if this bundle has no
* registered services.
*
* <p>
* If the Java runtime supports permissions, a <code>ServiceReference</code>
* object to a service is included in the returned list only if the caller
* has the <code>ServicePermission</code> to get the service using at

```



```

* least one of the named classes the service was registered under.
*
* <p>
* The list is valid at the time of the call to this method, however, as the
* Framework is a very dynamic environment, services can be modified or
* unregistered at anytime.
*
* @return An array of <code>ServiceReference</code> objects or
*         <code>null</code>.
* @throws java.lang.IllegalStateException If this bundle has been
*         uninstalled.
* @see ServiceRegistration
* @see ServiceReference
* @see ServicePermission
*/
public ServiceReference[] getRegisteredServices();

/**
* Returns this bundle's <code>ServiceReference</code> list for all
* services it is using or returns <code>null</code> if this bundle is not
* using any services. A bundle is considered to be using a service if its
* use count for that service is greater than zero.
*
* <p>
* If the Java Runtime Environment supports permissions, a
* <code>ServiceReference</code> object to a service is included in the
* returned list only if the caller has the <code>ServicePermission</code>
* to get the service using at least one of the named classes the service
* was registered under.
* <p>
* The list is valid at the time of the call to this method, however, as the
* Framework is a very dynamic environment, services can be modified or
* unregistered at anytime.
*
* @return An array of <code>ServiceReference</code> objects or
*         <code>null</code>.
* @throws java.lang.IllegalStateException If this bundle has been
*         uninstalled.
* @see ServiceReference
* @see ServicePermission
*/
public ServiceReference[] getServicesInUse();

/**
* Determines if this bundle has the specified permissions.
*
* <p>
* If the Java Runtime Environment does not support permissions, this method

```

```

* always returns true.
* <p>
* <code>permission</code> is of type <code>Object</code> to avoid
* referencing the <code>java.security.Permission</code> class directly.
* This is to allow the Framework to be implemented in Java environments
* which do not support permissions.
*
* <p>
* If the Java Runtime Environment does support permissions, this bundle and
* all its resources including embedded JAR files, belong to the same
* <code>java.security.ProtectionDomain</code>; that is, they must share
* the same set of permissions.
*
* @param permission The permission to verify.
*
* @return <code>true</code> if this bundle has the specified permission
* or the permissions possessed by this bundle imply the specified
* permission; <code>false</code> if this bundle does not have the
* specified permission or <code>permission</code> is not an
* <code>instanceof</code> <code>java.security.Permission</code>.
*
* @throws java.lang.IllegalStateException If this bundle has been
* uninstalled.
*/
public boolean hasPermission(Object permission);

/**
* Find the specified resource from this bundle.
*
* This bundle's class loader is called to search for the specified
* resource. If this bundle's state is <code>INSTALLED</code>, this
* method must attempt to resolve this bundle before attempting to get the
* specified resource. If this bundle cannot be resolved, then only this
* bundle must be searched for the specified resource. Imported packages
* cannot be searched when this bundle has not been resolved. If this bundle
* is a fragment bundle then <code>null</code> is returned.
*
* @param name The name of the resource. See
* <code>java.lang.ClassLoader.getResource</code> for a description
* of the format of a resource name.
* @return A URL to the named resource, or <code>null</code> if the
* resource could not be found or if this bundle is a fragment
* bundle or if the caller does not have the appropriate
* <code>AdminPermission[this,RESOURCE]</code>, and the Java
* Runtime Environment supports permissions.
*
* @since 1.1
* @throws java.lang.IllegalStateException If this bundle has been

```

```

*     uninstalled.
* @see #getEntry
* @see #findEntries
*/
public URL getResource(String name);

/**
 * Returns this bundle's Manifest headers and values localized to the
 * specified locale.
 *
 * <p>
 * This method performs the same function as
 * <code>Bundle.getHeaders()</code> except the manifest header values are
 * localized to the specified locale.
 *
 * <p>
 * If a Manifest header value starts with &quot;%&quot;, it must be
 * localized according to the specified locale. If a locale is specified and
 * cannot be found, then the header values must be returned using the
 * default locale. Localizations are searched for in the following order:
 *
 * <pre>
 *  bn + "_" + Ls + "_" + Cs + "_" + Vs
 *  bn + "_" + Ls + "_" + Cs
 *  bn + "_" + Ls
 *  bn + "_" + Ld + "_" + Cd + "_" + Vd
 *  bn + "_" + Ld + "_" + Cd
 *  bn + "_" + Ld
 *  bn
 * </pre>
 *
 * Where <code>bn</code> is this bundle's localization basename,
 * <code>Ls</code>, <code>Cs</code> and <code>Vs</code> are the
 * specified locale (language, country, variant) and <code>Ld</code>,
 * <code>Cd</code> and <code>Vd</code> are the default locale (language,
 * country, variant).
 *
 * If <code>null</code> is specified as the locale string, the header
 * values must be localized using the default locale. If the empty string
 * (&quot;&quot;) is specified as the locale string, the header values must
 * not be localized and the raw (unlocalized) header values, including any
 * leading &quot;%&quot;, must be returned.
 *
 * <p>
 * This method must continue to return Manifest header information while
 * this bundle is in the <code>UNINSTALLED</code> state, however the
 * header values must only be available in the raw and default locale
 * values.

```

```

*
* @param locale The locale name into which the header values are to be
*   localized. If the specified locale is null then the
*   locale returned by java.util.Locale.getDefault is
*   used. If the specified locale is the empty string, this method
*   will return the raw (unlocalized) manifest headers including any
*   leading &quot;%&quot;.
* @return A Dictionary object containing this bundle's
*   Manifest headers and values.
*
* @throws java.lang.SecurityException If the caller does not have the
*   appropriate AdminPermission[this,METADATA], and
*   the Java Runtime Environment supports permissions.
*
* @see #getHeaders()
* @see Constants#BUNDLE_LOCALIZATION
* @since 1.3
*/
public Dictionary getHeaders(String locale);

/**
* Returns the symbolic name of this bundle as specified by its
* Bundle-SymbolicName manifest header. The name must be
* unique, it is recommended to use a reverse domain name naming convention
* like that used for java packages. If this bundle does not have a
* specified symbolic name then null is returned.
*
* <p>
* This method must continue to return this bundle's symbolic name while
* this bundle is in the UNINSTALLED state.
*
* @return The symbolic name of this bundle.
* @since 1.3
*/
public String getSymbolicName();

/**
* Loads the specified class using this bundle's classloader.
*
* <p>
* If this bundle is a fragment bundle then this method must throw a
* ClassNotFoundException.
*
* <p>
* If this bundle's state is INSTALLED, this method must
* attempt to resolve this bundle before attempting to load the class.
*
* <p>

```

```

* If this bundle cannot be resolved, a Framework event of type
* { @link FrameworkEvent#ERROR } is fired containing a
* <code>BundleException</code> with details of the reason this bundle
* could not be resolved. This method must then throw a
* <code>ClassNotFoundException</code>.
*
* <p>
* If this bundle's state is <code>UNINSTALLED</code>, then an
* <code>IllegalStateException</code> is thrown.
*
* @param name The name of the class to load.
* @return The Class object for the requested class.
* @throws java.lang.ClassNotFoundException If no such class can be found or
*     if this bundle is a fragment bundle or if the caller does not
*     have the appropriate <code>AdminPermission[this,CLASS]</code>,
*     and the Java Runtime Environment supports permissions.
* @throws java.lang.IllegalStateException If this bundle has been
*     uninstalled.
* @since 1.3
*/
public Class loadClass(String name) throws ClassNotFoundException;

/**
* Find the specified resources from this bundle.
*
* This bundle's class loader is called to search for the specified
* resources. If this bundle's state is <code>INSTALLED</code>, this
* method must attempt to resolve this bundle before attempting to get the
* specified resources. If this bundle cannot be resolved, then only this
* bundle must be searched for the specified resources. Imported packages
* cannot be searched when a bundle has not been resolved. If this bundle is
* a fragment bundle then <code>null</code> is returned.
*
* @param name The name of the resource. See
*     <code>java.lang.ClassLoader.getResources</code> for a
*     description of the format of a resource name.
* @return An enumeration of URLs to the named resources, or
*     <code>null</code> if the resource could not be found or if this
*     bundle is a fragment bundle or if the caller does not have the
*     appropriate <code>AdminPermission[this,RESOURCE]</code>, and
*     the Java Runtime Environment supports permissions.
*
* @since 1.3
* @throws java.lang.IllegalStateException If this bundle has been
*     uninstalled.
* @throws java.io.IOException If there is an I/O error.
*/
public Enumeration getResources(String name) throws IOException;

```

```

/**
 * Returns an Enumeration of all the paths (<code>String</code> objects)
 * to entries within this bundle whose longest sub-path matches the
 * specified path. This bundle's classloader is not used to search for
 * entries. Only the contents of this bundle are searched.
 * <p>
 * The specified path is always relative to the root of this bundle and may
 * begin with a &quot;/&quot;. A path value of &quot;/&quot; indicates the
 * root of this bundle.
 * <p>
 * Returned paths indicating subdirectory paths end with a &quot;/&quot;.
 * The returned paths are all relative to the root of this bundle and must
 * not begin with &quot;/&quot;.
 *
 * @param path The path name for which to return entry paths.
 * @return An Enumeration of the entry paths (<code>String</code>
 * objects) or <code>null</code> if no entry could be found or if
 * the caller does not have the appropriate
 * <code>AdminPermission[this,RESOURCE]</code> and the Java
 * Runtime Environment supports permissions.
 * @throws java.lang.IllegalStateException If this bundle has been
 * uninstalled.
 * @since 1.3
 */

```

```

public Enumeration getEntryPaths(String path);

```

```

/**
 * Returns a URL to the entry at the specified path in this bundle. This
 * bundle's classloader is not used to search for the entry. Only the
 * contents of this bundle are searched for the entry.
 * <p>
 * The specified path is always relative to the root of this bundle and may
 * begin with &quot;/&quot;. A path value of &quot;/&quot; indicates the
 * root of this bundle.
 *
 * @param path The path name of the entry.
 * @return A URL to the entry, or <code>null</code> if no entry could be
 * found or if the caller does not have the appropriate
 * <code>AdminPermission[this,RESOURCE]</code> and the Java
 * Runtime Environment supports permissions.
 *
 * @throws java.lang.IllegalStateException If this bundle has been
 * uninstalled.
 * @since 1.3
 */

```

```

public URL getEntry(String path);

```

```

/**
 * Returns the time when this bundle was last modified. A bundle is
 * considered to be modified when it is installed, updated or uninstalled.
 *
 * <p>
 * The time value is the number of milliseconds since January 1, 1970,
 * 00:00:00 GMT.
 *
 * @return The time when this bundle was last modified.
 * @since 1.3
 */
public long getLastModified();

/**
 * Returns entries in this bundle and its attached fragments. This bundle's
 * classloader is not used to search for entries. Only the contents of this
 * bundle and its attached fragments are searched for the specified entries.
 *
 * If this bundle's state is <code>INSTALLED</code>, this method must
 * attempt to resolve this bundle before attempting to find entries.
 *
 * <p>
 * This method is intended to be used to obtain configuration, setup,
 * localization and other information from this bundle. This method takes
 * into account that the &quot;contents&quot; of this bundle can be extended
 * with fragments. This &quot;bundle space&quot; is not a namespace with
 * unique members; the same entry name can be present multiple times. This
 * method therefore returns an enumeration of URL objects. These URLs can
 * come from different JARs but have the same path name. This method can
 * either return only entries in the specified path or recurse into
 * subdirectories returning entries in the directory tree beginning at the
 * specified path. Fragments can be attached after this bundle is resolved,
 * possibly changing the set of URLs returned by this method. If this bundle
 * is not resolved, only the entries in the JAR file of this bundle are
 * returned.
 *
 * <p>
 * Examples:
 *
 * <pre>
 * // List all XML files in the OSGI-INF directory and below
 * Enumeration e = b.findEntries(&quot;OSGI-INF&quot;, &quot;*.xml&quot;, true);
 *
 * // Find a specific localization file
 * Enumeration e = b.findEntries(&quot;OSGI-INF/110n&quot;,
 *                             &quot;bundle_nl_DU.properties&quot;,
 *                             false);
 * if (e.hasMoreElements())
 *     return (URL) e.nextElement();

```

```

* </pre>
*
* @param path The path name in which to look. The path is always relative
*   to the root of this bundle and may begin with &quot;/&quot;. A
*   path value of &quot;/&quot; indicates the root of this bundle.
* @param filePattern The file name pattern for selecting entries in the
*   specified path. The pattern is only matched against the last
*   element of the entry path and it supports substring matching, as
*   specified in the Filter specification, using the wildcard
*   character (&quot;*&quot;). If null is specified, this is
*   equivalent to &quot;*&quot; and matches all files.
* @param recurse If <code>>true</code>, recurse into subdirectories.
*   Otherwise only return entries from the specified path.
* @return An enumeration of URL objects for each matching entry, or
*   <code>null</code> if an entry could not be found or if the
*   caller does not have the appropriate
*   <code>AdminPermission[this,RESOURCE]</code>, and the Java
*   Runtime Environment supports permissions. The URLs are sorted
*   such that entries from this bundle are returned first followed by
*   the entries from attached fragments in ascending bundle id order.
*   If this bundle is a fragment, then only matching entries in this
*   fragment are returned.
* @since 1.3
*/
public Enumeration findEntries(String path, String filePattern,
    boolean recurse);

/**
* Returns this bundle's { @link BundleContext}. The returned
* <code>BundleContext</code> can be used by the caller to act on behalf
* of this bundle.
*
* <p>
* If this bundle is not in the { @link #STARTING}, { @link #ACTIVE}, or
* { @link #STOPPING} states or this bundle is a fragment bundle, then this
* bundle has no valid <code>BundleContext</code>. This method will
* return <code>null</code> if this bundle has no valid
* <code>BundleContext</code>.
*
* @return A <code>BundleContext</code> for this bundle or
*   <code>null</code> if this bundle has no valid
*   <code>BundleContext</code>.
* @throws java.lang.SecurityException If the caller does not have the
*   appropriate <code>AdminPermission[this,CONTEXT]</code>, and
*   the Java Runtime Environment supports permissions.
* @since 1.4
*/
public BundleContext getBundleContext();

```



}

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# 1.695 pcre 6.6

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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JUnit test library (junit-3.8.1.jar)

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# 1.707 postfix/pflogsumm-1.1.1 2.6.6 :6.el6\_5

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The Pflogsumm Home Page is at:

[http://jimsun.LinxNet.com/postfix\\_contrib.html](http://jimsun.LinxNet.com/postfix_contrib.html)

## =head1 REQUIREMENTS

For certain options (e.g.: `--smtpd_stats`), Pflogsumm requires the `Date::Calc` module, which can be obtained from CPAN at <http://www.perl.com>.

Pflogsumm is currently written and tested under Perl 5.8.3. As of version 19990413-02, pflogsumm worked with Perl 5.003, but future compatibility is not guaranteed.

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#### A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for

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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes

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## 1.710 quartz 2.2.1

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of

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

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a

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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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*/
/*
* $Id: HttpSOAPConnection.java,v 1.7 2008/09/29 06:48:21 kumarjayanti Exp $
* $Revision: 1.7 $
* $Date: 2008/09/29 06:48:21 $
*/

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```

```
*/
```

# 1.717 saxon 9.1.0.8

## 1.717.1 Available under license :

```
package net.sf.saxon.style;
import net.sf.saxon.trans.Err;
import net.sf.saxon.expr.Expression;
import net.sf.saxon.instruct.CallTemplate;
import net.sf.saxon.instruct.Executable;
import net.sf.saxon.instruct.Template;
import net.sf.saxon.om.*;
import net.sf.saxon.trans.XPathException;
import net.sf.saxon.type.AnyItemType;
import net.sf.saxon.type.ItemType;
import net.sf.saxon.type.Type;
import net.sf.saxon.value.SequenceType;
import net.sf.saxon.value.Whitespace;

import java.util.List;

/**
 * An xsl:call-template element in the stylesheet
 */

public class XSLCallTemplate extends StyleElement {

    private StructuredQName calledTemplateName; // the name of the called template
    private XSLTemplate template = null;
    private boolean useTailRecursion = false;
    private Expression calledTemplateExpression; // allows name to be an AVT

    /**
     * Determine whether the called template can be specified as an AVT
     * @return true if the template name can be specified at run-time, that is, if this is a saxon:call-template
     * instruction
     */

    protected boolean allowAVT() {
        return false;
    }

    /**
     * Determine whether this node is an instruction.
     * @return true - it is an instruction
     */
}
```

```

public boolean isInstruction() {
    return true;
}

/**
 * Determine the type of item returned by this instruction (only relevant if
 * it is an instruction).
 * @return the item type returned
 */

protected ItemType getReturnedItemType() {
    if (template==null) {
        return AnyItemType.getInstance();
    } else {
        return template.getReturnedItemType();
    }
}

public void prepareAttributes() throws XPathException {

    AttributeCollection atts = getAttributeList();

    String nameAttribute = null;

    for (int a=0; a<atts.getLength(); a++) {
        int nc = atts.getNameCode(a);
        String f = getNamePool().getClarkName(nc);
        if (f.equals(StandardNames.NAME)) {
            nameAttribute = Whitespace.trim(atts.getValue(a));
        } else {
            checkUnknownAttribute(nc);
        }
    }

    if (nameAttribute==null) {
        calledTemplateName = new StructuredQName("saxon", NamespaceConstant.SAXON, "error-template");
        reportAbsence("name");
        return;
    }

    if (allowAVT() && nameAttribute.indexOf('{')>=0) {
        calledTemplateExpression = makeAttributeValueTemplate(nameAttribute);
    } else {
        try {
            calledTemplateName = makeQName(nameAttribute);
        } catch (NamespaceException err) {
            calledTemplateName = new StructuredQName("saxon", NamespaceConstant.SAXON, "error-template");
            compileError(err.getMessage(), "XTSE0280");
        }
    }
}

```

```

    } catch (XPathException err) {
        calledTemplateName = new StructuredQName("saxon", NamespaceConstant.SAXON, "error-template");
        compileError(err.getMessage(), err.getErrorCodeLocalPart());
    }
}
}

```

```

public void validate() throws XPathException {
    AxisIterator kids = iterateAxis(Axis.CHILD);
    while (true) {
        NodeInfo child = (NodeInfo)kids.next();
        if (child == null) {
            break;
        }
        if (child instanceof XSLWithParam) {
            // OK;
        } else if (child instanceof XSLFallback && mayContainFallback()) {
            // xsl:fallback is not allowed on xsl:call-template, but is allowed on saxon:call-template (cheat!)
        } else if (child.getNodeKind() == Type.TEXT) {
            // with xml:space=preserve, white space nodes may still be there
            if (!Whitespace.isWhite(child.getStringValueCS())) {
                compileError("No character data is allowed within xsl:call-template", "XTSE0010");
            }
        } else {
            compileError("Child element " + Err.wrap(child.getDisplayName(), Err.ELEMENT) +
                " is not allowed within xsl:call-template", "XTSE0010");
        }
    }
    if (calledTemplateExpression==null &&
        !(calledTemplateName.getNamespaceURI().equals(NamespaceConstant.SAXON) &&
            calledTemplateName.getLocalName().equals("error-template"))) {
        template = findTemplate(calledTemplateName);
        if (template==null) {
            return;
        }
    }
    calledTemplateExpression = typeCheck("name", calledTemplateExpression);
}

```

```

public void postValidate() throws XPathException {
    // check that a parameter is supplied for each required parameter
    // of the called template

    if (template != null) {
        AxisIterator declaredParams = template.iterateAxis(Axis.CHILD);
        while(true) {
            NodeInfo param = (NodeInfo)declaredParams.next();
            if (param == null) {

```

```

        break;
    }
    if (param instanceof XSLParam && ((XSLParam)param).isRequiredParam()
        && !((XSLParam)param).isTunnelParam()) {
        AxisIterator actualParams = iterateAxis(Axis.CHILD);
        boolean ok = false;
        while(true) {
            NodeInfo withParam = (NodeInfo)actualParams.next();
            if (withParam == null) {
                break;
            }
            if (withParam instanceof XSLWithParam &&
                ((XSLWithParam)withParam).getVariableQName().equals(
                    ((XSLParam)param).getVariableQName())) {
                ok = true;
                break;
            }
        }
        if (!ok) {
            compileError("No value supplied for required parameter " +
                Err.wrap(((XSLParam)param).getVariableDisplayName(), Err.VARIABLE), "XTSE0690");
        }
    }
}

```

```

// check that every supplied parameter is declared in the called
// template

```

```

AxisIterator actualParams = iterateAxis(Axis.CHILD);
while(true) {
    NodeInfo w = (NodeInfo)actualParams.next();
    if (w == null) {
        break;
    }
    if (w instanceof XSLWithParam && !((XSLWithParam)w).isTunnelParam()) {
        XSLWithParam withParam = (XSLWithParam)w;
        AxisIterator formalParams = template.iterateAxis(Axis.CHILD);
        boolean ok = false;
        while(true) {
            NodeInfo param = (NodeInfo)formalParams.next();
            if (param == null) {
                break;
            }
            if (param instanceof XSLParam &&
                ((XSLParam)param).getVariableQName().equals(withParam.getVariableQName())) {
                ok = true;
                SequenceType required = ((XSLParam)param).getRequiredType();
            }
        }
    }
}

```

```

        withParam.checkAgainstRequiredType(required);
        break;
    }
}
if (!ok) {
    if (!backwardsCompatibleModeIsEnabled()) {
        compileError("Parameter " +
            withParam.getVariableDisplayName() +
            " is not declared in the called template", "XTSE0680");
    }
}
}
}
}
}
}

private XSLTemplate findTemplate(StructuredQName templateName)
throws XPathException {

    XSLStylesheet stylesheet = getPrincipalStylesheet();
    List toplevel = stylesheet.getTopLevel();

    // search for a matching template name, starting at the end in case of duplicates.
    // this also ensures we get the one with highest import precedence.

    for (int i=toplevel.size()-1; i>=0; i--) {
        if (toplevel.get(i) instanceof XSLTemplate) {
            XSLTemplate t = (XSLTemplate)toplevel.get(i);
            if (templateName.equals(t.getTemplateName())) {
                return t;
            }
        }
    }
    compileError("No template exists named " + calledTemplateName, "XTSE0650");
    return null;
}

/**
 * Mark tail-recursive calls on templates and functions.
 * For most instructions, this does nothing.
 */

public boolean markTailCalls() {
    useTailRecursion = true;
    return true;
}

```

```

public Expression compile(Executable exec) throws XPathException {
    Template target = null;
    NamespaceResolver nsContext = null;

    if (calledTemplateExpression==null) {
        if (template==null) {
            return null; // error already reported
        }
        target = template.getCompiledTemplate();
    } else {
        //getPrincipalStyleSheet().setRequireRuntimeTemplateMap(true);
        nsContext = makeNamespaceContext();
    }

    CallTemplate call = new CallTemplate (
        target,
        useTailRecursion,
        calledTemplateExpression,
        nsContext );
    call.setActualParameters(getWithParamInstructions(exec, false, call),
        getWithParamInstructions(exec, true, call));
    return call;
}

}

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//
package net.sf.saxon.style;

/**
 * A saxon:call-template element in the stylesheet. This differs from the standard

```



```
* xsl:call-template in that the template name can be specified as an attribute
* value template
*/
```

```
public class SaxonCallTemplate extends XSLCallTemplate {
```

```
/**
```

```
 * Determine whether the called template name can be specified as an AVT
```

```
*/
```

```
protected boolean allowAVT() {
```

```
    return true;
```

```
}
```

```
/**
```

```
 * Determine whether this type of element is allowed to contain an xsl:fallback
```

```
 * instruction
```

```
*/
```

```
public boolean mayContainFallback() {
```

```
    return true;
```

```
}
```

```
}
```

```
//
```

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```

```
//
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```
//
```

```
package net.sf.saxon.style;
```

```
import net.sf.saxon.trans.Err;
```

```
import net.sf.saxon.expr.*;
```

```
import net.sf.saxon.instruct.ApplyTemplates;
```

```
import net.sf.saxon.instruct.Executable;
```

```
import net.sf.saxon.om.*;
```

```

import net.sf.saxon.sort.SortExpression;
import net.sf.saxon.sort.SortKeyDefinition;
import net.sf.saxon.trans.Mode;
import net.sf.saxon.trans.XPathException;
import net.sf.saxon.type.Type;
import net.sf.saxon.value.SequenceType;
import net.sf.saxon.value.Whitespace;

/**
 * An xsl:apply-templates element in the stylesheet
 */

public class XSLApplyTemplates extends StyleElement {

    private Expression select;
    private StructuredQName modeName; // null if no name specified or if conventional values such as #current used
    private boolean useCurrentMode = false;
    private boolean useTailRecursion = false;
    private Mode mode;
    private String modeAttribute;
    private boolean implicitSelect = false;

    /**
     * Determine whether this node is an instruction.
     * @return true - it is an instruction
     */

    public boolean isInstruction() {
        return true;
    }

    public void prepareAttributes() throws XPathException {

        AttributeCollection atts = getAttributeList();

        String selectAtt = null;

        for (int a=0; a<atts.getLength(); a++) {
            int nc = atts.getNameCode(a);
            String f = getNamePool().getClarkName(nc);
            if (f.equals(StandardNames.MODE)) {
                modeAttribute = Whitespace.trim(atts.getValue(a));
            } else if (f.equals(StandardNames.SELECT)) {
                selectAtt = atts.getValue(a);
            } else {
                checkUnknownAttribute(nc);
            }
        }
    }
}

```

```

    }
}

if (modeAttribute!=null) {
    if (modeAttribute.equals("#current")) {
        useCurrentMode = true;
    } else if (modeAttribute.equals("#default")) {
        // do nothing;
    } else {
        try {
            modeName = makeQName(modeAttribute);
        } catch (NamespaceException err) {
            compileError(err.getMessage(), "XTSE0280");
            modeName = null;
        } catch (XPathException err) {
            compileError("Mode name " + Err.wrap(modeAttribute) + " is not a valid QName",
                err.getErrorCodeLocalPart());
            modeName = null;
        }
    }
}

if (selectAtt!=null) {
    select = makeExpression(selectAtt);
}
}

public void validate() throws XPathException {

    //checkWithinTemplate();

    // get the Mode object
    if (!useCurrentMode) {
        mode = getPrincipalStylesheet().getRuleManager().getMode(modeName, true);
    }

    // handle sorting if requested

    AxisIterator kids = iterateAxis(Axis.CHILD);
    while (true) {
        NodeInfo child = (NodeInfo)kids.next();
        if (child == null) {
            break;
        }
        if (child instanceof XSLSort) {
            // no-op
        } else if (child instanceof XSLWithParam) {
            // usesParams = true;

```

```

    } else if (child.getNodeKind() == Type.TEXT) {
        // with xml:space=preserve, white space nodes may still be there
        if (!Whitespace.isWhite(child.getStringValueCS())) {
            compileError("No character data is allowed within xsl:apply-templates", "XTSE0010");
        }
    } else {
        compileError("Invalid element within xsl:apply-templates", "XTSE0010");
    }
}

if (select==null) {
    select = new AxisExpression(Axis.CHILD, null);
    implicitSelect = true;
}

select = typeCheck("select", select);
try {
    RoleLocator role =
        new RoleLocator(RoleLocator.INSTRUCTION, "xsl:apply-templates/select", 0);
    //role.setSourceLocator(new ExpressionLocation(this));
    role.setErrorCode("XTTE0520");
    select = TypeChecker.staticTypeCheck(select,
        SequenceType.NODE_SEQUENCE,
        false, role, makeExpressionVisitor());
} catch (XPathException err) {
    compileError(err);
}

}

/**
 * Mark tail-recursive calls on templates and functions.
 * For most instructions, this does nothing.
 */

public boolean markTailCalls() {
    useTailRecursion = true;
    return true;
}

public Expression compile(Executable exec) throws XPathException {
    SortKeyDefinition[] sortKeys = makeSortKeys();
    if (sortKeys != null) {
        useTailRecursion = false;
    }
    Expression sortedSequence = select;
    if (sortKeys != null) {

```

```

        sortedSequence = new SortExpression(select, sortKeys);
    }
    compileSequenceConstructor(exec, iterateAxis(Axis.CHILD), true);
    ApplyTemplates app = new ApplyTemplates(
        sortedSequence,
        useCurrentMode,
        useTailRecursion,
        mode,
        backwardsCompatibleModeIsEnabled(),
        implicitSelect);
    app.setActualParameters(getWithParamInstructions(exec, false, app),
        getWithParamInstructions(exec, true, app));
    return app;
}

}

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//
package net.sf.saxon.style;
import net.sf.saxon.expr.*;
import net.sf.saxon.functions.Concat;
import net.sf.saxon.functions.SystemFunction;
import net.sf.saxon.instruct.SimpleContentConstructor;
import net.sf.saxon.trans.XPathException;
import net.sf.saxon.type.BuiltInAtomicType;
import net.sf.saxon.type.TypeHierarchy;
import net.sf.saxon.value.Cardinality;
import net.sf.saxon.value.StringValue;

import java.util.ArrayList;
import java.util.List;

```

```

/**
 * This class represents an attribute value template. The class allows an AVT to be parsed, and
 * can construct an Expression that returns the effective value of the AVT.
 *
 * This is an abstract class that is never instantiated, it contains static methods only.
 */

public abstract class AttributeValueTemplate {

    private AttributeValueTemplate() {}

    /**
     * Static factory method to create an AVT from an XSLT string representation.
     */

    public static Expression make(String avt,
                                  int lineNumber,
                                  StaticContext env) throws XPathException {

        List components = new ArrayList(5);

        int i0, i1, i8, i9;
        int len = avt.length();
        int last = 0;
        ExpressionVisitor visitor = ExpressionVisitor.make(env);
        while (last < len) {

            i0 = avt.indexOf("{", last);
            i1 = avt.indexOf("{}", last);
            i8 = avt.indexOf("}", last);
            i9 = avt.indexOf("}}", last);

            if ((i0 < 0 || len < i0) && (i8 < 0 || len < i8)) { // found end of string
                addStringComponent(components, avt, last, len);
                break;
            } else if (i8 >= 0 && (i0 < 0 || i8 < i0)) { // found a "}"
                if (i8 != i9) { // a "}" that isn't a "}}"
                    XPathException err = new XPathException("Closing curly brace in attribute value template \"" +
avt.substring(0, len) + "\" must be doubled");
                    err.setErrorCode("XTSE0370");
                    err.setIsStaticError(true);
                    throw err;
                }
                addStringComponent(components, avt, last, i8 + 1);
                last = i8 + 2;
            } else if (i1 >= 0 && i1 == i0) { // found a doubled "{"
                addStringComponent(components, avt, last, i1 + 1);
            }
        }
    }
}

```

```

        last = i1 + 2;
    } else if (i0 >= 0) {           // found a single "{"
        if (i0 > last) {
            addStringComponent(components, avt, last, i0);
        }
        Expression exp;
        ExpressionParser parser = new ExpressionParser();
        exp = parser.parse(avt, i0 + 1, Token.RCURLY, lineNumber, env);
        exp = visitor.simplify(exp);
        last = parser.getTokenizer().currentTokenStartOffset + 1;

        if (env.isInBackwardsCompatibleMode()) {
            components.add(makeFirstItem(exp, env));
        } else {
            components.add(visitor.simplify(
                new SimpleContentConstructor(exp, new StringLiteral(StringValue.SINGLE_SPACE))));
        }

    } else {
        throw new IllegalStateException("Internal error parsing AVT");
    }
}

// is it empty?

if (components.size() == 0) {
    return new StringLiteral(StringValue.EMPTY_STRING);
}

// is it a single component?

if (components.size() == 1) {
    return visitor.simplify((Expression) components.get(0));
}

// otherwise, return an expression that concatenates the components

Expression[] args = new Expression[components.size()];
components.toArray(args);
Concat fn = (Concat) SystemFunction.makeSystemFunction("concat", args);
fn.setLocationId(env.getLocationMap().allocateLocationId(env.getSystemId(), lineNumber));
return visitor.simplify(fn);
}

private static void addStringComponent(List components, String avt, int start, int end) {
    if (start < end) {
        components.add(new StringLiteral(avt.substring(start, end)));
    }
}

```

```

    }
}

/**
 * Make an expression that extracts the first item of a sequence, after atomization
 */

public static Expression makeFirstItem(Expression exp, StaticContext env) {
    final TypeHierarchy th = env.getConfiguration().getTypeHierarchy();
    if (!exp.getItemType(th).isAtomicType()) {
        exp = new Atomizer(exp, env.getConfiguration());
    }
    if (Cardinality.allowsMany(exp.getCardinality())) {
        exp = new FirstItemExpression(exp);
    }
    if (!th.isSubType(exp.getItemType(th), BuiltInAtomicType.STRING)) {
        exp = new AtomicSequenceConverter(exp, BuiltInAtomicType.STRING);
    }
    return exp;
}

}

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//
package net.sf.saxon.style;
import net.sf.saxon.expr.*;
import net.sf.saxon.instruct.*;
import net.sf.saxon.om.*;
import net.sf.saxon.pattern.EmptySequenceTest;
import net.sf.saxon.pattern.Pattern;
import net.sf.saxon.trans.Mode;
import net.sf.saxon.trans.RuleManager;

```



```

import net.sf.saxon.trans.XPathException;
import net.sf.saxon.type.ItemType;
import net.sf.saxon.type.Type;
import net.sf.saxon.value.DecimalValue;
import net.sf.saxon.value.SequenceType;
import net.sf.saxon.value.Whitespace;

import javax.xml.transform.TransformerException;
import java.util.StringTokenizer;

/**
 * An xsl:template element in the style sheet.
 */

public final class XSLTemplate extends StyleElement implements StylesheetProcedure {

    private String matchAtt = null;
    private String modeAtt = null;
    private String nameAtt = null;
    private String priorityAtt = null;
    private String asAtt = null;

    private StructuredQName[] modeNames;
    private String diagnosticId;
    private Pattern match;
    private boolean prioritySpecified;
    private double priority;
    private SlotManager stackFrameMap;
    private Template compiledTemplate = new Template();
    private SequenceType requiredType = null;
    private boolean hasRequiredParams = false;

    /**
     * Determine whether this type of element is allowed to contain a template-body
     * @return true: yes, it may contain a template-body
     */

    public boolean mayContainSequenceConstructor() {
        return true;
    }

    protected boolean mayContainParam() {
        return true;
    }

    /**
     * Specify that xsl:param is a permitted child
     */

```

```

protected boolean isPermittedChild(StyleElement child) {
    return (child instanceof XSLParam);
}

/**
 * Return the name of this template. Note that this may
 * be called before prepareAttributes has been called.
 * @return the name of the template as a Structured QName.
 */

public StructuredQName getTemplateName() {

    //We use null to mean "not yet evaluated"

    try {
        if (getObjectName()==null) {
            // allow for forwards references
            String nameAtt = getAttributeValue(StandardNames.NAME);
            if (nameAtt != null) {
                setObjectName(makeQName(nameAtt));
            }
        }
        return getObjectName();
    } catch (NamespaceException err) {
        return null; // the errors will be picked up later
    } catch (XPathException err) {
        return null;
    }
}

/**
 * Determine the type of item returned by this template
 * @return the item type returned
 */

protected ItemType getReturnedItemType() {
    if (requiredType==null) {
        return getCommonChildItemType();
    } else {
        return requiredType.getPrimaryType();
    }
}

private int getMinImportPrecedence() {
    return getContainingStylesheet().getMinImportPrecedence();
}

```

```

public void prepareAttributes() throws XPathException {

AttributeCollection atts = getAttributeList();

for (int a=0; a<atts.getLength(); a++) {
int nc = atts.getNameCode(a);
String f = getNamePool().getClarkName(nc);
if (f.equals(StandardNames.MODE)) {
modeAtt = Whitespace.trim(atts.getValue(a));
} else if (f.equals(StandardNames.NAME)) {
nameAtt = Whitespace.trim(atts.getValue(a));
} else if (f.equals(StandardNames.MATCH)) {
matchAtt = atts.getValue(a);
} else if (f.equals(StandardNames.PRIORITY)) {
priorityAtt = Whitespace.trim(atts.getValue(a));
} else if (f.equals(StandardNames.AS)) {
asAtt = atts.getValue(a);
} else {
checkUnknownAttribute(nc);
}
}
try {
if (modeAtt==null) {
modeNames = new StructuredQName[1];
modeNames[0] = Mode.DEFAULT_MODE_NAME;
} else {
if (matchAtt==null) {
compileError("The mode attribute must be absent if the match attribute is absent", "XTSE0500");
}
// mode is a space-separated list of mode names, or "#default", or "#all"

int count = 0;
boolean allModes = false;
StringTokenizer st = new StringTokenizer(modeAtt, "\t\n\r", false);
while (st.hasMoreTokens()) {
st.nextToken();
count++;
}

if (count==0) {
compileError("The mode attribute must not be empty", "XTSE0550");
}

modeNames = new StructuredQName[count];
count = 0;
st = new StringTokenizer(modeAtt, "\t\n\r", false);
while (st.hasMoreTokens()) {
String s = st.nextToken();

```

```

StructuredQName mname;
if ("#default".equals(s)) {
    mname = Mode.DEFAULT_MODE_NAME;
} else if ("#all".equals(s)) {
    allModes = true;
    mname = Mode.ALL_MODES;
} else {
    mname = makeQName(s);
}
for (int e=0; e < count; e++) {
    if (modeNames[e].equals(mname)) {
        compileError("In the list of modes, the value " + s + " is duplicated", "XTSE0550");
    }
}
modeNames[count++] = mname;
}
if (allModes && (count>1)) {
    compileError("mode='#all' cannot be combined with other modes", "XTSE0550");
}
}
} catch (NamespaceException err) {
    compileError(err.getMessage(), "XTSE0280");
} catch (XPathException err) {
    if (err.getErrorCodeLocalPart() == null) {
        err.setErrorCode("XTSE0280");
    } else if (err.getErrorCodeLocalPart().equals("XTSE0020")) {
        err.setErrorCode("XTSE0550");
    }
}
err.setIsStaticError(true);
compileError(err);
}

try{
    if (nameAtt!=null) {
        StructuredQName qName = makeQName(nameAtt);
        setObjectName(qName);
        diagnosticId = nameAtt;
    }
} catch (NamespaceException err) {
    compileError(err.getMessage(), "XTSE0280");
} catch (XPathException err) {
    if (err.getErrorCodeLocalPart() == null) {
        err.setErrorCode("XTSE0280");
    }
}
err.setIsStaticError(true);
compileError(err);
}

```

```

prioritySpecified = (priorityAtt != null);
if (prioritySpecified) {
    if (matchAtt==null) {
        compileError("The priority attribute must be absent if the match attribute is absent", "XTSE0500");
    }
    try {
        // it's got to be a valid decimal, but we want it as a double, so parse it twice
        if (!DecimalValue.castableAsDecimal(priorityAtt)) {
            compileError("Invalid numeric value for priority (" + priority + ')', "XTSE0530");
        }
        priority = Double.parseDouble(priorityAtt);
    } catch (NumberFormatException err) {
        // shouldn't happen
        compileError("Invalid numeric value for priority (" + priority + ')', "XTSE0530");
    }
}

if (matchAtt != null) {
    match = makePattern(matchAtt);
    if (diagnosticId == null) {
        diagnosticId = "match=\"" + matchAtt + "\"";
        if (modeAtt != null) {
            diagnosticId += " mode=\"" + modeAtt + "\"";
        }
    }
}

if (match==null && nameAtt==null)
    compileError("xsl:template must have a name or match attribute (or both)", "XTSE0500");

if (asAtt != null) {
    requiredType = makeSequenceType(asAtt);
}
}

public void validate() throws XPathException {
    stackFrameMap = getConfiguration().makeSlotManager();
    checkTopLevel(null);

    // the check for duplicates is now done in the buildIndexes() method of XSLStylesheet
    if (match != null) {
        match = typeCheck("match", match);
        if (match.getNodeTest() instanceof EmptySequenceTest) {
            try {
                getConfiguration().getErrorListener().warning(
                    new TransformerException("Match pattern cannot match any nodes", this));
            } catch (TransformerException e) {
                compileError(XPathException.makeXPathException(e));
            }
        }
    }
}

```

```

    }
  }
}

// See if there are any required parameters.
AxisIterator kids = iterateAxis(Axis.CHILD);
while(true) {
  NodeInfo param = (NodeInfo)kids.next();
  if (param == null) {
    break;
  }
  if (param instanceof XSLParam && ((XSLParam)param).isRequiredParam()) {
    hasRequiredParams = true;
    break;
  }
}
}

public void postValidate() throws XPathException {
  markTailCalls();
}

/**
 * Mark tail-recursive calls on templates and functions.
 */

public boolean markTailCalls() {
  StyleElement last = getLastChildInstruction();
  return last != null && last.markTailCalls();
}

/**
 * Compile: this registers the template with the rule manager, and ensures
 * space is available for local variables
 */

public Expression compile(Executable exec) throws XPathException {

  Expression block = compileSequenceConstructor(exec, iterateAxis(Axis.CHILD), true);
  if (block == null) {
    block = Literal.makeEmptySequence();
  }
  compiledTemplate.setMatchPattern(match);
  compiledTemplate.setBody(block);
  compiledTemplate.setStackFrameMap(stackFrameMap);
  compiledTemplate.setExecutable(getExecutable());
}

```

```

compiledTemplate.setSystemId(getSystemId());
compiledTemplate.setLineNumber(getLineNumber());
compiledTemplate.setHasRequiredParams(hasRequiredParams);
compiledTemplate.setRequiredType(requiredType);

Expression exp = null;
try {
    exp = makeExpressionVisitor().simplify(block);
} catch (XPathException e) {
    compileError(e);
}

try {
    if (requiredType != null) {
        RoleLocator role =
            new RoleLocator(RoleLocator.TEMPLATE_RESULT, diagnosticId, 0);
        //role.setSourceLocator(new ExpressionLocation(this));
        role.setErrorCode("XTTE0505");
        exp = TypeChecker.staticTypeCheck(exp, requiredType, false, role, makeExpressionVisitor());
    }
} catch (XPathException err) {
    compileError(err);
}

compiledTemplate.setBody(exp);
compiledTemplate.init ( getObjectNames(),
                        getPrecedence(),
                        getMinImportPrecedence());

if (getConfiguration().isCompileWithTracing()) {
    TraceWrapper trace = new TraceInstruction(exp, this);
    trace.setLocationId(allocateLocationId(getSystemId(), getLineNumber()));
    trace.setContainer(compiledTemplate);
    exp = trace;
    compiledTemplate.setBody(exp);
}

ItemType contextItemType = Type.ITEM_TYPE;
if (getObjectNames() == null) {
    // the template can't be called by name, so the context item must match the match pattern
    contextItemType = match.getNodeTest();
}

ExpressionVisitor visitor = makeExpressionVisitor();
try {
    // We've already done the typecheck of each XPath expression, but it's worth doing again at this
    // level because we have more information now.
    Expression exp2 = visitor.typeCheck(exp, contextItemType);
}

```

```

exp2 = visitor.optimize(exp2, contextItemType);
if (exp != exp2) {
    compiledTemplate.setBody(exp2);
    exp = exp2;
}
} catch (XPathException e) {
    compileError(e);
}

// Try to extract new global variables from the body of the function
// ExpressionPresenter presenter = ExpressionPresenter.make(getConfiguration());
// exp.explain(presenter);
// presenter.close();
if (!getConfiguration().isCompileWithTracing()) {
    Expression exp2 = getConfiguration().getOptimizer().promoteExpressionsToGlobal(exp, visitor);
    if (exp != exp2) {
        compiledTemplate.setBody(exp2);
        exp = exp2;
    }
}

allocateSlots(exp);
if (match != null) {
    RuleManager mgr = getPrincipalStylesheet().getRuleManager();
    for (int i=0; i<modeNames.length; i++) {
        StructuredQName nc = modeNames[i];
        Mode mode = mgr.getMode(nc, true);
        if (prioritySpecified) {
            mgr.setHandler(match, compiledTemplate, mode, getPrecedence(), priority);
        } else {
            mgr.setHandler(match, compiledTemplate, mode, getPrecedence());
        }
    }
}

allocatePatternSlots(match, getSlotManager());
}

if (isExplaining()) {
    System.err.println("Optimized expression tree for template at line " +
        getLineNumber() + " in " + getSystemId() + ':');
    exp.explain(System.err);
}

return null;
}

/**

```



```

* Get associated Procedure (for details of stack frame)
*/

public SlotManager getSlotManager() {
    return stackFrameMap;
}

/**
 * Get the compiled template
 * @return the compiled template
 */

public Template getCompiledTemplate() {
    return compiledTemplate;
}

/**
 * Get the type of construct. This will be a constant in
 * class {@link net.sf.saxon.trace.Location}. This method is part of the {@link net.sf.saxon.trace.InstructionInfo}
interface
*/

public int getConstructType() {
    return StandardNames.XSL_TEMPLATE;
}

}

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```

```

package net.sf.saxon;
import net.sf.saxon.event.CommentStripper;
import net.sf.saxon.event.ReceivingContentHandler;
import net.sf.saxon.event.StartTagBuffer;
import net.sf.saxon.style.StyleNodeFactory;
import net.sf.saxon.style.StylesheetStripper;
import net.sf.saxon.style.UseWhenFilter;
import net.sf.saxon.trans.CompilerInfo;
import net.sf.saxon.trans.XPathException;
import net.sf.saxon.tree.DocumentImpl;
import net.sf.saxon.tree.TreeBuilder;
import org.xml.sax.Locator;

import javax.xml.transform.Templates;
import javax.xml.transform.TransformerException;
import javax.xml.transform.sax.TemplatesHandler;

/**
 * <b>TemplatesHandlerImpl</b> implements the javax.xml.transform.sax.TemplatesHandler
 * interface. It acts as a ContentHandler which receives a stream of
 * SAX events representing a stylesheet, and returns a Templates object that
 * represents the compiled form of this stylesheet.
 * @author Michael H. Kay
 */

public class TemplatesHandlerImpl extends ReceivingContentHandler implements TemplatesHandler {

    private TreeBuilder builder;
    private StyleNodeFactory nodeFactory;
    private Templates templates;
    private String systemId;

    /**
     * Create a TemplatesHandlerImpl and initialise variables. The constructor is protected, because
     * the Filter should be created using newTemplatesHandler() in the SAXTransformerFactory
     * class
     * @param config the Saxon configuration
     */

    protected TemplatesHandlerImpl(Configuration config) {

        setPipelineConfiguration(config.makePipelineConfiguration());

        nodeFactory = new StyleNodeFactory(config, getPipelineConfiguration().getErrorListener());

        builder = new TreeBuilder();
        builder.setPipelineConfiguration(getPipelineConfiguration());

```

```

builder.setNodeFactory(nodeFactory);
builder.setLineNumbering(true);

StartTagBuffer startTagBuffer = new StartTagBuffer();

UseWhenFilter useWhenFilter = new UseWhenFilter(startTagBuffer);
useWhenFilter.setUnderlyingReceiver(builder);
useWhenFilter.setPipelineConfiguration(getPipelineConfiguration());

startTagBuffer.setUnderlyingReceiver(useWhenFilter);
startTagBuffer.setPipelineConfiguration(getPipelineConfiguration());

StylesheetStripper styleStripper = new StylesheetStripper();
styleStripper.setUnderlyingReceiver(startTagBuffer);
styleStripper.setPipelineConfiguration(getPipelineConfiguration());

CommentStripper commentStripper = new CommentStripper();
commentStripper.setUnderlyingReceiver(styleStripper);
commentStripper.setPipelineConfiguration(getPipelineConfiguration());

setReceiver(commentStripper);

}

/**
 * Get the Templates object to be used for a transformation
 */

public Templates getTemplates() {
    if (templates==null) {
        DocumentImpl doc = (DocumentImpl)builder.getCurrentRoot();
        builder.reset();
        if (doc==null) {
            return null;
        }

        final Configuration config = getConfiguration();
        CompilerInfo info = new CompilerInfo();
        info.setURIResolver(config.getURIResolver());
        info.setErrorListener(config.getErrorListener());
        info.setCompileWithTracing(config.isCompileWithTracing());
        PreparedStylesheet sheet = new PreparedStylesheet(config, info);

        try {
            sheet.setStylesheetDocument(doc, nodeFactory);
            templates = sheet;
        } catch (XPathException tce) {
            if (!tce.hasBeenReported()) {

```

```

        try {
            info.getErrorListener().fatalError(tce);
        } catch (TransformerException e2) {
            //
        }
    }
    // don't know why we aren't allowed to just throw it!
    throw new IllegalStateException(tce.getMessage());
}
}

return templates;
}

/**
 * Set the SystemId of the document. Note that if this method is called, any locator supplied
 * to the setDocumentLocator() method is ignored. This also means that no line number information
 * will be available.
 * @param url the system ID (base URI) of the stylesheet document, which will be used in any error
 * reporting and also for resolving relative URIs in xsl:include and xsl:import. It will also form
 * the static base URI in the static context of XPath expressions.
 */

public void setSystemId(String url) {
    systemId = url;
    builder.setSystemId(url);
    super.setDocumentLocator(new Locator() {
        public int getColumnNumber() {
            return -1;
        }

        public int getLineNumber() {
            return -1;
        }

        public String getPublicId() {
            return null;
        }

        public String getSystemId() {
            return systemId;
        }
    });
}

/**
 * Callback interface for SAX: not for application use
 */

```

```

public void setDocumentLocator (final Locator locator) {
    // If the user has called setSystemId(), we use that system ID in preference to this one,
    // which probably comes from the XML parser possibly via some chain of SAX filters
    if (systemId == null) {
        super.setDocumentLocator(locator);
    }
}

/**
 * Get the systemId of the document
 */

public String getSystemId() {
    return systemId;
}

}

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//
package net.sf.saxon.evpull;

import net.sf.saxon.Configuration;
import net.sf.saxon.om.FastStringBuffer;
import net.sf.saxon.om.NodeInfo;
import net.sf.saxon.om.Orphan;
import net.sf.saxon.trans.XPathException;
import net.sf.saxon.type.Type;
import net.sf.saxon.value.AtomicValue;

/**

```

\* The ComplexContentProcessor is an EventIterator that deals with the events occurring between  
 \* a startElement and endElement (or startDocument and endDocument) according to the XSLT/XQuery  
 \* rules for constructing complex content. This includes:  
 \*  
 \* <ul>  
 \* <li>Converting atomic values to text nodes (inserting space as a separator between adjacent nodes)</li>  
 \* <li>Replacing nested document nodes by their children</li>  
 \* <li>Merging adjacent text nodes and dropping zero-length text nodes</li>  
 \* <li>Detecting mispositioned or duplicated attribute and namespace nodes</li>  
 \*  
 \* </ul>  
 \*  
 \* <p>Note that if the content includes nodes such as element nodes, these will not be decomposed into  
 \* a sequence of tree events, they will simply be returned as nodes.</p>  
 \*/

```
public class ComplexContentProcessor implements EventIterator {

    private Configuration config;
    private EventIterator base;
    private PullEvent[] startEventStack; // contains either startElement or startDocument events
    private int depth;
    private NodeInfo pendingTextNode;
    private boolean pendingTextNodeIsMutable;
    private boolean prevAtomic = false;
    private PullEvent pendingOutput = null;

    /**
     * Create the ComplexContentProcessor
     * @param config the Saxon Configuration
     * @param base the EventIterator that delivers the content of the element or document node
     */

    public ComplexContentProcessor(Configuration config, EventIterator base) {
        this.config = config;
        this.base = EventStackIterator.flatten(base);
        startEventStack = new PullEvent[20];
        depth = 0;
    }

    /**
     * Get the next event in the sequence. This will never be an EventIterator.
     *
     * @return the next event, or null when the sequence is exhausted
     * @throws net.sf.saxon.trans.XPathException
     *         if a dynamic evaluation error occurs
     */

    public PullEvent next() throws XPathException {
```

```

if (pendingOutput != null) {
    PullEvent next = pendingOutput;
    pendingOutput = null;
    return next;
} else {
    return advance();
}
}

private PullEvent advance() throws XPathException {
    while (true) {
        if (depth == 0) {
            PullEvent e = base.next();
            if (e instanceof StartElementEvent) {
                push(e);
            } else if (e instanceof StartDocumentEvent) {
                push(e);
            }
            return e;
        } else {
            PullEvent e = base.next();
            if (e instanceof StartElementEvent) {
                prevAtomic = false;
                push(e);
                if (pendingTextNode != null) {
                    pendingOutput = e;
                    PullEvent next = pendingTextNode;
                    pendingTextNode = null;
                    return next;
                } else {
                    return e;
                }
            } else if (e instanceof StartDocumentEvent) {
                prevAtomic = false;
                push(e);
                if (pendingTextNode != null) {
                    pendingOutput = e;
                    PullEvent next = pendingTextNode;
                    pendingTextNode = null;
                    return next;
                } else {
                    //continue;
                }
            } else if (e instanceof EndElementEvent) {
                prevAtomic = false;
                pop();
                if (pendingTextNode != null) {
                    pendingOutput = e;
                }
            }
        }
    }
}

```

```

        PullEvent next = pendingTextNode;
        pendingTextNode = null;
        return next;
    } else {
        return e;
    }
} else if (e instanceof EndDocumentEvent) {
    prevAtomic = false;
    pop();
    if (pendingTextNode != null) {
        pendingOutput = e;
        PullEvent next = pendingTextNode;
        pendingTextNode = null;
        return next;
    } else {
        return e;
    }
} else if (e instanceof NodeInfo) {
    prevAtomic = false;
    switch (((NodeInfo)e).getNodeKind()) {
        case Type.TEXT:
            if (pendingTextNode == null) {
                pendingTextNode = (NodeInfo)e;
                pendingTextNodeIsMutable = false;
            } else if (pendingTextNodeIsMutable) {
                FastStringBuffer sb = (FastStringBuffer)((Orphan)pendingTextNode).getStringValueCS();
                sb.append(((NodeInfo)e).getStringValueCS());
            } else {
                Orphan o = new Orphan(config);
                o.setNodeKind(Type.TEXT);
                FastStringBuffer sb = new FastStringBuffer(40);
                sb.append(pendingTextNode.getStringValueCS());
                sb.append(((NodeInfo)e).getStringValueCS());
                o.setStringValue(sb);
                pendingTextNode = o;
                pendingTextNodeIsMutable = true;
            }
            continue;
        default:
            if (pendingTextNode != null) {
                pendingOutput = e;
                PullEvent next = pendingTextNode;
                pendingTextNode = null;
                return next;
            } else {
                return e;
            }
    }
}

```



```

} else if (e instanceof AtomicValue) {
    if (prevAtomic) {
        FastStringBuffer sb = (FastStringBuffer)((Orphan)pendingTextNode).getStringValueCS();
        sb.append(' ');
        sb.append(((AtomicValue)e).getStringValueCS());
    } else if (pendingTextNode != null) {
        prevAtomic = true;
        if (pendingTextNodeIsMutable) {
            FastStringBuffer sb = (FastStringBuffer)((Orphan)pendingTextNode).getStringValueCS();
            sb.append(((AtomicValue)e).getStringValueCS());
        } else {
            Orphan o = new Orphan(config);
            o.setNodeKind(Type.TEXT);
            FastStringBuffer sb = new FastStringBuffer(40);
            sb.append(pendingTextNode.getStringValueCS());
            sb.append(((AtomicValue)e).getStringValueCS());
            o.setStringValue(sb);
            pendingTextNode = o;
            pendingTextNodeIsMutable = true;
        }
    } else {
        prevAtomic = true;
        Orphan o = new Orphan(config);
        o.setNodeKind(Type.TEXT);
        FastStringBuffer sb = new FastStringBuffer(40);
        sb.append(((AtomicValue)e).getStringValueCS());
        o.setStringValue(sb);
        pendingTextNode = o;
        pendingTextNodeIsMutable = true;
    }
    //continue;
} else {
    throw new AssertionError("Unknown event");
}
}

}

}

/**
 * Push a startElement or startDocument event onto the stack. At the same time, if it is a startElement
 * event, remove any redundant namespace declarations
 * @param p the startElement or startDocument event
 */

private void push(PullEvent p) {
    if (depth >= startEventStack.length - 1) {
        PullEvent[] b2 = new PullEvent[depth*2];

```

```

System.arraycopy(startEventStack, 0, b2, 0, startEventStack.length);
startEventStack = b2;
}
if (p instanceof StartElementEvent) {
    int retained = 0;
    int[] nsp = ((StartElementEvent)p).getLocalNamespaces();
    for (int nspi = 0; nspi < nsp.length; nspi++) {
        if (nsp[nspi] == -1) {
            break;
        }
        retained++;
    outer:
    for (int i=depth-1; i>=0; i--) {
        PullEvent q = startEventStack[i];
        if (q instanceof StartElementEvent) {
            int[] nsq = ((StartElementEvent)q).getLocalNamespaces();
            for (int nsqi = 0; nsqi < nsq.length; nsqi++) {
                if (nsp[nspi] == nsq[nsqi]) {
                    nsp[nspi] = -1;
                    retained--;
                    break outer;
                } else if (nsp[nspi]>>16 == nsq[nsqi]>>16) {
                    break outer;
                }
            }
        }
    }
}
if (retained < nsp.length) {
    int[] nsr = new int[retained];
    int nsri = 0;
    for (int nspi=0; nspi<nsp.length; nspi++) {
        if (nsp[nspi] != -1) {
            nsr[nsri++] = nsp[nspi];
            if (nsri == retained) {
                break;
            }
        }
    }
    ((StartElementEvent)p).setLocalNamespaces(nsr);
}
startEventStack[depth++] = p;
prevAtomic = false;
}

private void pop() {
    depth--;
}

```

```

    prevAtomic = false;
}

/**
 * Determine whether the EventIterator returns a flat sequence of events, or whether it can return
 * nested event iterators
 *
 * @return true if the next() method is guaranteed never to return an EventIterator
 */

public boolean isFlatSequence() {
    return true;
}
}

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//
package net.sf.saxon.pull;

import net.sf.saxon.event.PipelineConfiguration;
import net.sf.saxon.om.*;
import net.sf.saxon.trans.XPathException;
import net.sf.saxon.type.AtomicType;
import net.sf.saxon.type.Type;
import net.sf.saxon.type.TypeHierarchy;
import net.sf.saxon.value.AtomicValue;

import javax.xml.transform.SourceLocator;
import java.util.List;

/**
 * This class delivers any XPath sequence through the pull interface. Atomic values
 * in the sequence are supplied unchanged, as are top-level text, comment, attribute,
 * namespace, and processing-instruction nodes. Elements and documents appearing in

```

```
* the input sequence are supplied as a sequence of events that walks recursively
* down the subtree rooted at that node. The input is supplied in the form of a
* SequenceIterator.
*/
```

```
public class PullFromIterator implements PullProvider {

    private SequenceIterator base;
    private PullProvider treeWalker = null;
    private PipelineConfiguration pipe;
    private int currentEvent = START_OF_INPUT;

    /**
     * Create a PullProvider that wraps a supplied SequenceIterator
     * @param base the sequence iterator to be wrapped
     */

    public PullFromIterator(SequenceIterator base) {
        this.base = base;
    }

    /**
     * Set configuration information. This must only be called before any events
     * have been read.
     */

    public void setPipelineConfiguration(PipelineConfiguration pipe) {
        this.pipe = pipe;
    }

    /**
     * Get configuration information.
     */

    public PipelineConfiguration getPipelineConfiguration() {
        return pipe;
    }

    /**
     * Get the next event
     *
     * @return an integer code indicating the type of event. The code
     *         { @link #END_OF_INPUT } is returned at the end of the sequence.
     */

    public int next() throws XPathException {
        if (treeWalker == null) {
            Item item = base.next();

```

```

if (item == null) {
    currentEvent = END_OF_INPUT;
    return currentEvent;
} else if (item instanceof UnconstructedParent) {
    // this represents a lazily-evaluated element or document node constructor
    treeWalker = ((UnconstructedParent)item).getPuller();
    //treeWalker.setPipelineConfiguration(pipe);
    currentEvent = treeWalker.next();
    return currentEvent;
} else if (item instanceof AtomicValue) {
    currentEvent = ATOMIC_VALUE;
    return currentEvent;
} else {
    switch (((NodeInfo)item).getNodeKind()) {
        case Type.TEXT:
            currentEvent = TEXT;
            return currentEvent;

        case Type.COMMENT:
            currentEvent = COMMENT;
            return currentEvent;

        case Type.PROCESSING_INSTRUCTION:
            currentEvent = PROCESSING_INSTRUCTION;
            return currentEvent;

        case Type.ATTRIBUTE:
            currentEvent = ATTRIBUTE;
            return currentEvent;

        case Type.NAMESPACE:
            currentEvent = NAMESPACE;
            return currentEvent;

        case Type.ELEMENT:
        case Type.DOCUMENT:
            treeWalker = TreeWalker.makeTreeWalker((NodeInfo)item);
            treeWalker.setPipelineConfiguration(pipe);
            currentEvent = treeWalker.next();
            return currentEvent;

        default:
            throw new IllegalStateException();
    }
}
} else {

```

```

        // there is an active TreeWalker: just return its next event
        int event = treeWalker.next();
        if (event == END_OF_INPUT) {
            treeWalker = null;
            currentEvent = next();
        } else {
            currentEvent = event;
        }
        return currentEvent;
    }
}

/**
 * Get the event most recently returned by next(), or by other calls that change
 * the position, for example getStringValue() and skipToMatchingEnd(). This
 * method does not change the position of the PullProvider.
 *
 * @return the current event
 */

public int current() {
    return currentEvent;
}

/**
 * Get the attributes associated with the current element. This method must
 * be called only after a START_ELEMENT event has been notified. The contents
 * of the returned AttributeCollection are guaranteed to remain unchanged
 * until the next START_ELEMENT event, but may be modified thereafter. The object
 * should not be modified by the client.
 * <p/>
 * <p>Attributes may be read before or after reading the namespaces of an element,
 * but must not be read after the first child node has been read, or after calling
 * one of the methods skipToEnd(), getStringValue(), or getTypedValue().</p>
 *
 * @return an AttributeCollection representing the attributes of the element
 *         that has just been notified.
 */

public AttributeCollection getAttributes() throws XPathException {
    if (treeWalker != null) {
        return treeWalker.getAttributes();
    } else {
        throw new IllegalStateException();
    }
}
}

```

```

/**
 * Get the namespace declarations associated with the current element. This method must
 * be called only after a START_ELEMENT event has been notified. In the case of a top-level
 * START_ELEMENT event (that is, an element that either has no parent node, or whose parent
 * is not included in the sequence being read), the NamespaceDeclarations object returned
 * will contain a namespace declaration for each namespace that is in-scope for this element
 * node. In the case of a non-top-level element, the NamespaceDeclarations will contain
 * a set of namespace declarations and undeclarations, representing the differences between
 * this element and its parent.
 * <p/>
 * <p>It is permissible for this method to return namespace declarations that are redundant.</p>
 * <p/>
 * <p>The NamespaceDeclarations object is guaranteed to remain unchanged until the next START_ELEMENT
 * event, but may then be overwritten. The object should not be modified by the client.</p>
 * <p/>
 * <p>Namespaces may be read before or after reading the attributes of an element,
 * but must not be read after the first child node has been read, or after calling
 * one of the methods skipToEnd(), getStringValue(), or getTypedValue().</p>*
 */

```

```

public NamespaceDeclarations getNamespaceDeclarations() throws XPathException {
    if (treeWalker != null) {
        return treeWalker.getNamespaceDeclarations();
    } else {
        throw new IllegalStateException();
    }
}

```

```

/**
 * Skip the current subtree. This method may be called only immediately after
 * a START_DOCUMENT or START_ELEMENT event. This call returns the matching
 * END_DOCUMENT or END_ELEMENT event; the next call on next() will return
 * the event following the END_DOCUMENT or END_ELEMENT.
 */

```

```

public int skipToMatchingEnd() throws XPathException {
    if (treeWalker != null) {
        return treeWalker.skipToMatchingEnd();
    } else {
        throw new IllegalStateException();
    }
}

```

```

/**
 * Close the event reader. This indicates that no further events are required.
 * It is not necessary to close an event reader after {@link #END_OF_INPUT} has
 * been reported, but it is recommended to close it if reading terminates
 * prematurely. Once an event reader has been closed, the effect of further

```

```

* calls on next() is undefined.
*/

public void close() {
    if (treeWalker != null) {
        treeWalker.close();
    }
}

/**
 * Get the nameCode identifying the name of the current node. This method
 * can be used after the {@link #START_ELEMENT}, {@link #PROCESSING_INSTRUCTION},
 * {@link #ATTRIBUTE}, or {@link #NAMESPACE} events. With some PullProvider implementations,
 * including this one, it can also be used after {@link #END_ELEMENT}.
 * If called at other times, the result is undefined and may result in an IllegalStateException.
 * If called when the current node is an unnamed namespace node (a node representing the default namespace)
 * the returned value is -1.
 *
 * @return the nameCode. The nameCode can be used to obtain the prefix, local name,
 *         and namespace URI from the name pool.
 */

public int getNameCode() {
    if (treeWalker != null) {
        return treeWalker.getNameCode();
    } else {
        Item item = base.current();
        if (item instanceof NodeInfo) {
            return ((NodeInfo)item).getNameCode();
        } else {
            throw new IllegalStateException();
        }
    }
}

/**
 * Get the fingerprint of the name of the element. This is similar to the nameCode, except that
 * it does not contain any information about the prefix: so two elements with the same fingerprint
 * have the same name, excluding prefix. This method
 * can be used after the {@link #START_ELEMENT}, {@link #END_ELEMENT}, {@link
#PROCESSING_INSTRUCTION},
 * {@link #ATTRIBUTE}, or {@link #NAMESPACE} events.
 * If called at other times, the result is undefined and may result in an IllegalStateException.
 * If called when the current node is an unnamed namespace node (a node representing the default namespace)
 * the returned value is -1.
 *
 * @return the fingerprint. The fingerprint can be used to obtain the local name
 *         and namespace URI from the name pool.
 */

```



```

*/

public int getFingerprint() {
    int nc = getNameCode();
    if (nc == -1) {
        return -1;
    } else {
        return nc & NamePool.FP_MASK;
    }
}

/**
 * Get the string value of the current element, text node, processing-instruction,
 * or top-level attribute or namespace node, or atomic value.
 * <p/>
 * <p>In other situations the result is undefined and may result in an IllegalStateException.</p>
 * <p/>
 * <p>If the most recent event was a { @link #START_ELEMENT}, this method causes the content
 * of the element to be read. The current event on completion of this method will be the
 * corresponding { @link #END_ELEMENT}. The next call of next() will return the event following
 * the END_ELEMENT event.</p>
 *
 * @return the String Value of the node in question, defined according to the rules in the
 *         XPath data model.
 */

public CharSequence getStringValue() throws XPathException {
    if (treeWalker != null) {
        return treeWalker.getStringValue();
    } else {
        Item item = base.current();
        return item.getStringValueCS();
    }
}

/**
 * Get an atomic value. This call may be used only when the last event reported was
 * ATOMIC_VALUE. This indicates that the PullProvider is reading a sequence that contains
 * a free-standing atomic value; it is never used when reading the content of a node.
 */

public AtomicValue getAtomicValue() {
    if (currentEvent == ATOMIC_VALUE) {
        return (AtomicValue)base.current();
    } else {
        throw new IllegalStateException();
    }
}
}

```

```

/**
 * Get the type annotation of the current attribute or element node, or atomic value.
 * The result of this method is undefined unless the most recent event was START_ELEMENT,
 * ATTRIBUTE, or ATOMIC_VALUE.
 *
 * @return the type annotation. This code is the fingerprint of a type name, which may be
 *         resolved to a {@link net.sf.saxon.type.SchemaType} by access to the Configuration.
 */

```

```

public int getTypeAnnotation() {
    if (treeWalker != null) {
        return treeWalker.getTypeAnnotation();
    } else {
        Item item = base.current();
        if (item instanceof NodeInfo) {
            return ((NodeInfo)item).getTypeAnnotation();
        } else {
            final TypeHierarchy th = pipe.getConfiguration().getTypeHierarchy();
            return ((AtomicType)((AtomicValue)item).getItemType(th)).getFingerprint();
        }
    }
}

```

```

/**
 * Get the location of the current event.
 * For an event stream representing a real document, the location information
 * should identify the location in the lexical XML source. For a constructed document, it should
 * identify the location in the query or stylesheet that caused the node to be created.
 * A value of null can be returned if no location information is available.
 */

```

```

public SourceLocator getSourceLocator() {
    if (treeWalker != null) {
        return treeWalker.getSourceLocator();
    } else {
        return null;
    }
}

```

```

/**
 * Get a list of unparsed entities.
 *
 * @return a list of unparsed entities, or null if the information is not available, or
 *         an empty list if there are no unparsed entities.
 */

```

```

public List getUnparsedEntities() {

```

```

        return null;
    }
}

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//
package net.sf.saxon.pull;

import net.sf.saxon.om.NamespaceResolver;

import javax.xml.namespace.NamespaceContext;
import java.util.ArrayList;
import java.util.Iterator;
import java.util.List;

/**
 * This class bridges between the JAXP 1.3 NamespaceContext interface and Saxon's
 * equivalent NamespaceResolver interface. It allows any implementation of the Saxon
 * NamespaceResolver to be wrapped as a JAXP NamespaceContext.
 */

public class NamespaceContextImpl implements NamespaceContext, NamespaceResolver {

    NamespaceResolver resolver;

    /**
     * Constructor: wrap a Saxon NamespaceResolver as a JAXP NamespaceContext
     * @param resolver the Saxon NamespaceResolver
     */

    public NamespaceContextImpl(NamespaceResolver resolver) {
        this.resolver = resolver;
    }
}

```

```

}

/**
 * Get the namespace URI corresponding to a given prefix. Return null
 * if the prefix is not in scope.
 * @param prefix the namespace prefix
 * @param useDefault true if the default namespace is to be used when the
 * prefix is ""
 * @return the uri for the namespace, or null if the prefix is not in scope
 */

public String getURIForPrefix(String prefix, boolean useDefault) {
    return resolver.getURIForPrefix(prefix, useDefault);
}

/**
 * Get an iterator over all the prefixes declared in this namespace context. This will include
 * the default namespace (prefix="") and the XML namespace where appropriate
 */

public Iterator iteratePrefixes() {
    return resolver.iteratePrefixes();
}

/**
 * Implement the JAXP getNamespaceURI() method in terms of the Saxon-specific methods
 * @param prefix a namespace prefix
 * @return the corresponding URI, if the prefix is bound, or "" otherwise
 */

public String getNamespaceURI(String prefix) {
    if (prefix.equals("xmlns")) {
        return "http://www.w3.org/2000/xmlns/";
    }
    return resolver.getURIForPrefix(prefix, true);
}

/**
 * Get the prefix bound to a particular namespace URI, if there is one, or null if not (JAXP method)
 * @param uri the namespace URI
 * @return the prefix bound to the URI if there is one, or null if not
 */

public String getPrefix(String uri) {
    Iterator prefixes = iteratePrefixes();
    while (prefixes.hasNext()) {
        String p = (String)prefixes.next();
        String u = resolver.getURIForPrefix(p, true);
    }
}

```

```

        if (u.equals(uri)) {
            return p;
        }
    }
    return null;
}

/**
 * Get all the prefixes mapped to a given namespace URI (JAXP method)
 * @param uri the namespace URI
 * @return an iterator over all the prefixes bound to this namespace URI
 */
public Iterator getPrefixes(String uri) {
    List list = new ArrayList(4);
    Iterator prefixes = iteratePrefixes();
    while (prefixes.hasNext()) {
        String p = (String)prefixes.next();
        String u = resolver.getURIForPrefix(p, true);
        if (u.equals(uri)) {
            list.add(p);
        }
    }
    return list.iterator();
}
}

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//
package net.sf.saxon.tinytree;

import net.sf.saxon.Configuration;
import net.sf.saxon.trans.Err;

```

```

import net.sf.saxon.om.*;
import net.sf.saxon.pattern.AnyNodeTest;
import net.sf.saxon.pattern.NameTest;
import net.sf.saxon.pattern.NodeTest;
import net.sf.saxon.trans.XPathException;
import net.sf.saxon.type.SchemaType;
import net.sf.saxon.type.Type;
import net.sf.saxon.value.UntypedAtomicValue;
import net.sf.saxon.value.Value;

import javax.xml.transform.SourceLocator;

/**
 * A node in a TinyTree representing an XML element, character content, or attribute.<P>
 * This is the top-level class in the implementation class hierarchy; it essentially contains
 * all those methods that can be defined using other primitive methods, without direct access
 * to data.
 *
 * @author Michael H. Kay
 */

public abstract class TinyNodeImpl implements NodeInfo, FingerprintedNode, SourceLocator {

    protected TinyTree tree;
    protected int nodeNr;
    protected TinyNodeImpl parent = null;

    /**
     * Characteristic letters to identify each type of node, indexed using the node type
     * values. These are used as the initial letter of the result of generate-id()
     */

    public static final char[] NODE_LETTER =
        {'x', 'e', 'a', 't', 'x', 'x', 'x', 'p', 'c', 'r', 'x', 'x', 'x', 'n'};

    /**
     * Get the value of the item as a CharSequence. This is in some cases more efficient than
     * the version of the method that returns a String.
     */

    public CharSequence getStringValueCS() {
        return getStringValue();
    }

    /**
     * Get the type annotation of this node, if any
     */

```

```

public int getTypeAnnotation() {
    return -1;
}

/**
 * Get the column number of the node.
 * The default implementation returns -1, meaning unknown
 */

public int getColumnNumber() {
    return tree.getColumnNumber(nodeNr);
}

/**
 * Get the public identifier of the document entity containing this node.
 * The default implementation returns null, meaning unknown
 */

public String getPublicId() {
    return null;
}

/**
 * Get the typed value of this node.
 * If there is no type annotation, we return the string value, as an instance
 * of xs:untypedAtomic
 */

public SequenceIterator getTypedValue() throws XPathException {
    int annotation = getTypeAnnotation();
    if ((annotation & NodeInfo.IS_DTD_TYPE) != 0) {
        annotation = StandardNames.XS_UNTYPED_ATOMIC;
    }
    annotation &= NamePool.FP_MASK;
    if (annotation == -1 || annotation == StandardNames.XS_UNTYPED_ATOMIC || annotation ==
StandardNames.XS_UNTYPED) {
        return SingletonIterator.makeIterator(new UntypedAtomicValue(getStringValueCS()));
    } else {
        SchemaType stype = getConfiguration().getSchemaType(annotation);
        if (stype == null) {
            String typeName;
            try {
                typeName = getNamePool().getDisplayName(annotation);
            } catch (Exception err) {
                typeName = annotation + "";
            }
            throw new XPathException("Unknown type annotation " +

```

```

        Err.wrap(typeName) + " in document instance");
    } else {
        return stype.getTypedValue(this);
    }
}

/**
 * Get the typed value. The result of this method will always be consistent with the method
 * {@link net.sf.saxon.om.Item#getTypedValue()}. However, this method is often more convenient and may be
 * more efficient, especially in the common case where the value is expected to be a singleton.
 *
 * @return the typed value. If requireSingleton is set to true, the result will always be an
 *         AtomicValue. In other cases it may be a Value representing a sequence whose items are atomic
 *         values.
 * @since 8.5
 */

public Value atomize() throws XPathException {
    int annotation = getTypeAnnotation();
    if ((annotation & NodeInfo.IS_DTD_TYPE) != 0) {
        annotation = StandardNames.XS_UNTYPED_ATOMIC;
    }
    if (annotation == -1 || annotation == StandardNames.XS_UNTYPED_ATOMIC || annotation ==
StandardNames.XS_UNTYPED) {
        return new UntypedAtomicValue(getStringValueCS());
    } else {
        SchemaType stype = getConfiguration().getSchemaType(annotation);
        if (stype == null) {
            String typeName = getNamePool().getDisplayName(annotation);
            throw new XPathException("Unknown type annotation " +
                Err.wrap(typeName) + " in document instance");
        } else {
            return stype.atomize(this);
        }
    }
}

/**
 * Set the system id of this node. <br />
 * This method is present to ensure that
 * the class implements the javax.xml.transform.Source interface, so a node can
 * be used as the source of a transformation.
 */

public void setSystemId(String uri) {
    tree.setSystemId(nodeNr, uri);
}

```



```

}

/**
 * Set the parent of this node. Providing this information is useful,
 * if it is known, because otherwise getParent() has to search backwards
 * through the document.
 * @param parent the parent of this node
 */

protected void setParentNode(TinyNodeImpl parent) {
    this.parent = parent;
}

/**
 * Determine whether this is the same node as another node
 *
 * @return true if this Node object and the supplied Node object represent the
 *         same node in the tree.
 */

public boolean isSameNodeInfo(NodeInfo other) {
    return this == other ||
        (other instanceof TinyNodeImpl &&
         tree == ((TinyNodeImpl)other).tree &&
         nodeNr == ((TinyNodeImpl)other).nodeNr &&
         getNodeKind() == other.getNodeKind());
}

/**
 * The equals() method compares nodes for identity. It is defined to give the same result
 * as isSameNodeInfo().
 *
 * @param other the node to be compared with this node
 * @return true if this NodeInfo object and the supplied NodeInfo object represent
 *         the same node in the tree.
 * @since 8.7 Previously, the effect of the equals() method was not defined. Callers
 *         should therefore be aware that third party implementations of the NodeInfo interface may
 *         not implement the correct semantics. It is safer to use isSameNodeInfo() for this reason.
 *         The equals() method has been defined because it is useful in contexts such as a Java Set or HashMap.
 */

public boolean equals(Object other) {
    return other instanceof NodeInfo && isSameNodeInfo((NodeInfo)other);
}

/**
 * The hashCode() method obeys the contract for hashCode(): that is, if two objects are equal
 * (represent the same node) then they must have the same hashCode()

```

```

*
* @since 8.7 Previously, the effect of the equals() and hashCode() methods was not defined. Callers
*   should therefore be aware that third party implementations of the NodeInfo interface may
*   not implement the correct semantics.
*/

public int hashCode() {
    return ((tree.getDocumentNumber() & 0x3ff) << 20) ^ nodeNr ^ (getNodeKind() << 14);
}

/**
 * Get the system ID for the entity containing the node.
 */

public String getSystemId() {
    return tree.getSystemId(nodeNr);
}

/**
 * Get the base URI for the node. Default implementation for child nodes gets
 * the base URI of the parent node.
 */

public String getBaseURI() {
    return (getParent()).getBaseURI();
}

/**
 * Get the line number of the node within its source document entity
 */

public int getLineNumber() {
    return tree.getLineNumber(nodeNr);
}

/**
 * Get the node sequence number (in document order). Sequence numbers are monotonic but not
 * consecutive. The sequence number must be unique within the document (not, as in
 * previous releases, within the whole document collection).
 * For document nodes, elements, text nodes, comment nodes, and PIs, the sequence number
 * is a long with the sequential node number in the top half and zero in the bottom half.
 * The bottom half is used only for attributes and namespace.
 * @return the sequence number
 */

protected long getSequenceNumber() {
    return (long)nodeNr << 32;
}

```

```

/**
 * Determine the relative position of this node and another node, in document order.
 * The other node will always be in the same document.
 *
 * @param other The other node, whose position is to be compared with this node
 * @return -1 if this node precedes the other node, +1 if it follows the other
 *         node, or 0 if they are the same node. (In this case, isSameNode() will always
 *         return true, and the two nodes will produce the same result for generateId())
 */

```

```

public final int compareOrder(NodeInfo other) {
    long a = getSequenceNumber();
    if (other instanceof TinyNodeImpl) {
        long b = ((TinyNodeImpl)other).getSequenceNumber();
        if (a < b) {
            return -1;
        }
        if (a > b) {
            return +1;
        }
        return 0;
    } else {
        // it must be a namespace node
        return 0 - other.compareOrder(this);
    }
}

```

```

/**
 * Get the fingerprint of the node, used for matching names
 */

```

```

public int getFingerprint() {
    int nc = getNameCode();
    if (nc == -1) {
        return -1;
    }
    return nc & 0xffff;
}

```

```

/**
 * Get the name code of the node, used for matching names
 */

```

```

public int getNameCode() {
    // overridden for attributes and namespace nodes.
    return tree.nameCode[nodeNr];
}

```

```

/**
 * Get the prefix part of the name of this node. This is the name before the ":" if any.
 *
 * @return the prefix part of the name. For an unnamed node, return "".
 */

public String getPrefix() {
    int code = tree.nameCode[nodeNr];
    if (code < 0) {
        return "";
    }
    if (NamePool.getPrefixIndex(code) == 0) {
        return "";
    }
    return tree.getNamePool().getPrefix(code);
}

/**
 * Get the URI part of the name of this node. This is the URI corresponding to the
 * prefix, or the URI of the default namespace if appropriate.
 *
 * @return The URI of the namespace of this node. For an unnamed node, or for
 *         an element or attribute in the default namespace, return an empty string.
 */

public String getURI() {
    int code = tree.nameCode[nodeNr];
    if (code < 0) {
        return "";
    }
    return tree.getNamePool().getURI(code);
}

/**
 * Get the display name of this node (a lexical QName). For elements and attributes this is [prefix:]localname.
 * The original prefix is retained. For unnamed nodes, the result is an empty string.
 *
 * @return The display name of this node.
 *         For a node with no name, return an empty string.
 */

public String getDisplayName() {
    int code = tree.nameCode[nodeNr];
    if (code < 0) {
        return "";
    }
    return tree.getNamePool().getDisplayName(code);
}

```

```

}

/**
 * Get the local part of the name of this node.
 *
 * @return The local name of this node.
 * For a node with no name, return "".
 */

public String getLocalPart() {
    int code = tree.nameCode[nodeNr];
    if (code < 0) {
        return "";
    }
    return tree.getNamePool().getLocalName(code);
}

/**
 * Return an iterator over all the nodes reached by the given axis from this node
 *
 * @param axisNumber Identifies the required axis, eg. Axis.CHILD or Axis.PARENT
 * @return a AxisIteratorImpl that scans the nodes reached by the axis in turn.
 */

public AxisIterator iterateAxis(byte axisNumber) {
    // fast path for child axis
    if (axisNumber == Axis.CHILD) {
        if (hasChildNodes()) {
            return new SiblingEnumeration(tree, this, null, true);
        } else {
            return EmptyIterator.getInstance();
        }
    } else {
        return iterateAxis(axisNumber, AnyNodeTest.getInstance());
    }
}

/**
 * Return an iterator over the nodes reached by the given axis from this node
 *
 * @param axisNumber Identifies the required axis, eg. Axis.CHILD or Axis.PARENT
 * @param nodeTest A pattern to be matched by the returned nodes.
 * @return a AxisIteratorImpl that scans the nodes reached by the axis in turn.
 */

public AxisIterator iterateAxis(byte axisNumber, NodeTest nodeTest) {
    int type = getNodeKind();

```

```

switch (axisNumber) {
  case Axis.ANCESTOR:
    return new AncestorEnumeration(this, nodeTest, false);

  case Axis.ANCESTOR_OR_SELF:
    return new AncestorEnumeration(this, nodeTest, true);

  case Axis.ATTRIBUTE:
    if (type != Type.ELEMENT) {
      return EmptyIterator.getInstance();
    }
    if (tree.alpha[nodeNr] < 0) {
      return EmptyIterator.getInstance();
    }
    return new AttributeEnumeration(tree, nodeNr, nodeTest);

  case Axis.CHILD:
    if (hasChildNodes()) {
      return new SiblingEnumeration(tree, this, nodeTest, true);
    } else {
      return EmptyIterator.getInstance();
    }

  case Axis.DESCENDANT:
    if (type == Type.DOCUMENT &&
        nodeTest instanceof NameTest &&
        nodeTest.getPrimitiveType() == Type.ELEMENT) {
      return ((TinyDocumentImpl)this).getAllElements(nodeTest.getFingerprint());
    } else if (hasChildNodes()) {
      return new DescendantEnumeration(tree, this, nodeTest, false);
    } else {
      return EmptyIterator.getInstance();
    }

  case Axis.DESCENDANT_OR_SELF:
    if (hasChildNodes()) {
      return new DescendantEnumeration(tree, this, nodeTest, true);
    } else {
      return Navigator.filteredSingleton(this, nodeTest);
    }

  case Axis.FOLLOWING:
    if (type == Type.ATTRIBUTE || type == Type.NAMESPACE) {
      return new FollowingEnumeration(tree, (TinyNodeImpl)getParent(), nodeTest, true);
    } else if (tree.depth[nodeNr] == 0) {
      return EmptyIterator.getInstance();
    } else {
      return new FollowingEnumeration(tree, this, nodeTest, false);
    }
}

```

```

    }

case Axis.FOLLOWING_SIBLING:
    if (type == Type.ATTRIBUTE || type == Type.NAMESPACE || tree.depth[nodeNr] == 0) {
        return EmptyIterator.getInstance();
    } else {
        return new SiblingEnumeration(tree, this, nodeTest, false);
    }

case Axis.NAMESPACE:
    if (type != Type.ELEMENT) {
        return EmptyIterator.getInstance();
    }
    return NamespaceIterator.makeIterator(this, nodeTest);

case Axis.PARENT:
    NodeInfo parent = getParent();
    return Navigator.filteredSingleton(parent, nodeTest);

case Axis.PRECEDING:
    if (type == Type.ATTRIBUTE || type == Type.NAMESPACE) {
        return new PrecedingEnumeration(tree, (TinyNodeImpl)getParent(), nodeTest, false);
    } else if (tree.depth[nodeNr] == 0) {
        return EmptyIterator.getInstance();
    } else {
        return new PrecedingEnumeration(tree, this, nodeTest, false);
    }

case Axis.PRECEDING_SIBLING:
    if (type == Type.ATTRIBUTE || type == Type.NAMESPACE || tree.depth[nodeNr] == 0) {
        return EmptyIterator.getInstance();
    } else {
        return new PrecedingSiblingEnumeration(tree, this, nodeTest);
    }

case Axis.SELF:
    return Navigator.filteredSingleton(this, nodeTest);

case Axis.PRECEDING_OR_ANCESTOR:
    if (type == Type.DOCUMENT) {
        return EmptyIterator.getInstance();
    } else if (type == Type.ATTRIBUTE || type == Type.NAMESPACE) {
        // See test numb32.
        TinyNodeImpl el = (TinyNodeImpl)getParent();
        return new PrependIterator(el, new PrecedingEnumeration(tree, el, nodeTest, true));
    } else {
        return new PrecedingEnumeration(tree, this, nodeTest, true);
    }
}

```

```

        default:
            throw new IllegalArgumentException("Unknown axis number " + axisNumber);
    }
}

/**
 * Find the parent node of this node.
 *
 * @return The Node object describing the containing element or root node.
 */

public NodeInfo getParent() {
    if (parent != null) {
        return parent;
    }
    int p = getParentNodeNr(tree, nodeNr);
    if (p == -1) {
        parent = null;
    } else {
        parent = tree.getNode(p);
    }
    return parent;
}

/**
 * Static method to get the parent of a given node, without instantiating the node as an object.
 * The starting node is any node other than an attribute or namespace node.
 *
 * @param tree the tree containing the starting node
 * @param nodeNr the node number of the starting node within the tree
 * @return the node number of the parent node, or -1 if there is no parent.
 */

static int getParentNodeNr(TinyTree tree, int nodeNr) {

    if (tree.depth[nodeNr] == 0) {
        return -1;
    }

    // follow the next-sibling pointers until we reach either a next sibling pointer that
    // points backwards, or a parent-pointer pseudo-node
    int p = tree.next[nodeNr];
    while (p > nodeNr) {
        if (tree.nodeKind[p] == Type.PARENT_POINTER) {
            return tree.alpha[p];
        }
        p = tree.next[p];
    }
}

```



```

    }
    return p;
}

/**
 * Determine whether the node has any children.
 *
 * @return <code>true</code> if this node has any attributes,
 *         <code>false</code> otherwise.
 */

public boolean hasChildNodes() {
    // overridden in TinyParentNodeImpl
    return false;
}

/**
 * Get the value of a given attribute of this node
 *
 * @param fingerprint The fingerprint of the attribute name
 * @return the attribute value if it exists or null if not
 */

public String getAttributeValue(int fingerprint) {
    // overridden in TinyElementImpl
    return null;
}

/**
 * Get the root node of the tree (not necessarily a document node)
 *
 * @return the NodeInfo representing the root of this tree
 */

public NodeInfo getRoot() {
    if (tree.depth[nodeNr] == 0) {
        return this;
    }
    if (parent != null) {
        return parent.getRoot();
    }
    return tree.getNode(tree.getRootNode(nodeNr));
}

/**
 * Get the root (document) node
 *
 * @return the DocumentInfo representing the containing document

```

```

*/

public DocumentInfo getDocumentRoot() {
    NodeInfo root = getRoot();
    if (root.getNodeKind() == Type.DOCUMENT) {
        return (DocumentInfo)root;
    } else {
        return null;
    }
}

/**
 * Get the configuration
 */

public Configuration getConfiguration() {
    return tree.getConfiguration();
}

/**
 * Get the NamePool for the tree containing this node
 *
 * @return the NamePool
 */

public NamePool getNamePool() {
    return tree.getNamePool();
}

/**
 * Get all namespace undeclarations and undeclarations defined on this element.
 *
 * @param buffer If this is non-null, and the result array fits in this buffer, then the result
 * may overwrite the contents of this array, to avoid the cost of allocating a new array on the heap.
 * @return An array of integers representing the namespace declarations and undeclarations present on
 * this element. For a node other than an element, return null. Otherwise, the returned array is a
 * sequence of namespace codes, whose meaning may be interpreted by reference to the name pool. The
 * top half word of each namespace code represents the prefix, the bottom half represents the URI.
 * If the bottom half is zero, then this is a namespace undeclaration rather than a declaration.
 * The XML namespace is never included in the list. If the supplied array is larger than required,
 * then the first unused entry will be set to -1.
 *
 * <p/>
 * <p>For a node other than an element, the method returns null.</p>
 */

public int[] getDeclaredNamespaces(int[] buffer) {
    return null;
}

```

```

/**
 * Get a character string that uniquely identifies this node
 *
 * @param buffer buffer, which on return will contain
 * a character string that uniquely identifies this node.
 *
 */

public void generateId(FastStringBuffer buffer) {
    buffer.append("d");
    buffer.append(Integer.toString(tree.getDocumentNumber()));
    buffer.append(NODE_LETTER[getNodeKind()]);
    buffer.append(Integer.toString(nodeNr));
}

/**
 * Get the document number of the document containing this node
 * (Needed when the document isn't a real node, for sorting free-standing elements)
 */

public final int getDocumentNumber() {
    return tree.getDocumentNumber();
}

/**
 * Test if this node is an ancestor-or-self of another
 *
 * @param d the putative descendant-or-self node
 * @return true if this node is an ancestor-or-self of d
 */

public boolean isAncestorOrSelf(TinyNodeImpl d) {
    // If it's a different tree, return false
    if (tree != d.tree) return false;
    int dn = d.nodeNr;
    // If d is an attribute, then either "this" must be the same attribute, or "this" must
    // be an ancestor-or-self of the parent of d.
    if (d instanceof TinyAttributeImpl) {
        if (this instanceof TinyAttributeImpl) {
            return nodeNr == dn;
        } else {
            dn = tree.attParent[dn];
        }
    }
    // If this is an attribute, return false (we've already handled the case where it's the same attribute)
    if (this instanceof TinyAttributeImpl) return false;
}

```

```

// From now on, we know that both "this" and "dn" are nodes in the primary array

// If d is later in document order, return false
if (nodeNr > dn) return false;

// If it's the same node, return true
if (nodeNr == dn) return true;

// We've dealt with the "self" case: to be an ancestor, it must be an element or document node
if (!(this instanceof TinyParentNodeImpl)) return false;

// If this node is deeper than the target node then it can't be an ancestor
if (tree.depth[nodeNr] >= tree.depth[dn]) return false;

// The following code will exit as soon as we find an ancestor that has a following-sibling:
// when that happens, we know it's an ancestor iff its following-sibling is beyond the node we're
// looking for. If the ancestor has no following sibling, we go up a level.

// The algorithm depends on the following assertion: if A is before D in document order, then
// either A is an ancestor of D, or some ancestor-or-self of A has a following-sibling that
// is before-or-equal to D in document order.

int n = nodeNr;
while (true) {
    int nextSib = tree.next[n];
    if (nextSib > dn) {
        return true;
    } else if (nextSib < 0 || tree.depth[nextSib] == 0) {
        return true;
    } else if (nextSib < n) {
        n = nextSib;
        // continue
    } else {
        return false;
    }
}
}

/**
 * Determine whether this node has the is-id property
 * @return true if the node is an ID
 */

public boolean isId() {
    return false; // overridden for element and attribute nodes
}

/**

```

```

* Determine whether this node has the is-idref property
* @return true if the node is an IDREF or IDREFS element or attribute
*/

public boolean isIdref() {
    return false; // overridden for element and attribute nodes
}

/**
* Determine whether the node has the is-nilled property
* @return true if the node has the is-nilled property
*/

public boolean isNilled() {
    return tree.isNilled(nodeNr);
}

/**
* Get the node number of this node within the TinyTree. This method is intended for internal use.
* @return the internal node number
*/

public int getNodeNumber() {
    return nodeNr;
}

}

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//
package net.sf.saxon.tinytree;
import net.sf.saxon.type.Type;

```

```

import net.sf.saxon.om.FastStringBuffer;

/**
 * TinyParentNodeImpl is an implementation of a non-leaf node (specifically, an Element node
 * or a Document node)
 * @author Michael H. Kay
 */

abstract class TinyParentNodeImpl extends TinyNodeImpl {

    /**
     * Determine if the node has children.
     */

    public final boolean hasChildNodes() {
        return (nodeNr+1 < tree.numberOfNodes &&
            tree.depth[nodeNr+1] > tree.depth[nodeNr]);
    }

    /**
     * Return the string-value of the node, that is, the concatenation
     * of the character content of all descendent elements and text nodes.
     * @return the accumulated character content of the element, including descendant elements.
     */

    public final String getStringValue() {
        return getStringValue(tree, nodeNr).toString();
    }

    /**
     * Get the value of the item as a CharSequence. This is in some cases more efficient than
     * the version of the method that returns a String.
     */

    public CharSequence getStringValueCS() {
        return getStringValue(tree, nodeNr);
    }

    /**
     * Get the string value of a node. This static method allows the string value of a node
     * to be obtained without instantiating the node as a Java object. The method also returns
     * a CharSequence rather than a string, which means it can sometimes avoid copying the
     * data.
     * @param tree The containing document
     * @param nodeNr identifies the node whose string value is required. This must be a
     * document or element node. The caller is trusted to ensure this.
     * @return the string value of the node, as a CharSequence

```

```

*/

public static CharSequence getStringValue(TinyTree tree, int nodeNr) {
    int level = tree.depth[nodeNr];

    // note, we can't rely on the value being contiguously stored because of whitespace
    // nodes: the data for these may still be present.

    int next = nodeNr+1;

    // we optimize two special cases: firstly, where the node has no children, and secondly,
    // where it has a single text node as a child.

    if (tree.depth[next] <= level) {
        return "";
    } else if (tree.nodeKind[next] == Type.TEXT && (next+1 >= tree.numberOfNodes || tree.depth[next+1] <=
level)) {
        //int length = tree.beta[next];
        //int start = tree.alpha[next];
        //return new CharSlice(tree.charBuffer, start, length);
        //return tree.charBuffer.subSequence(start, start+length);
        return TinyTextImpl.getStringValue(tree, next);
    }

    // now handle the general case

    FastStringBuffer sb = null;
    while (next < tree.numberOfNodes && tree.depth[next] > level) {
        final byte kind = tree.nodeKind[next];
        if (kind==Type.TEXT) {
            // int length = tree.beta[next];
            // int start = tree.alpha[next];
            if (sb==null) {
                sb = new FastStringBuffer(1024);
            }
            //sb.append(tree.charBuffer, start, length);
            //sb.append(tree.charBuffer.subSequence(start, start+length));
            sb.append(TinyTextImpl.getStringValue(tree, next));
        } else if (kind==Type.WHITESPACE_TEXT) {
            if (sb==null) {
                sb = new FastStringBuffer(1024);
            }
            WhitespaceTextImpl.appendStringValue(tree, next, sb);
        }
        next++;
    }
    if (sb==null) return "";
    return sb.condense();
}

```

```

    }

}

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//
package net.sf.saxon.tinytree;
import net.sf.saxon.event.Receiver;
import net.sf.saxon.om.Navigator;
import net.sf.saxon.om.SequenceIterator;
import net.sf.saxon.om.SingletonIterator;
import net.sf.saxon.trans.XPathException;
import net.sf.saxon.type.Type;
import net.sf.saxon.value.StringValue;
import net.sf.saxon.value.Value;

/**
 * TProcInstImpl is an implementation of ProcInstInfo
 * @author Michael H. Kay
 * @version 16 July 1999
 */

final class TinyProcInstImpl extends TinyNodeImpl {

    public TinyProcInstImpl(TinyTree tree, int nodeNr) {
        this.tree = tree;
        this.nodeNr = nodeNr;
    }

    public String getStringValue() {
        int start = tree.alpha[nodeNr];

```



```

int len = tree.beta[nodeNr];
if (len==0) {
    return ""; // need to special-case this for the Microsoft JVM
}
char[] dest = new char[len];
tree.commentBuffer.getChars(start, start+len, dest, 0);
return new String(dest, 0, len);
}

/**
 * Get the typed value of this node.
 * Returns the string value, as an instance of xs:string
 */

public SequenceIterator getTypedValue() {
    return SingletonIterator.makeIterator(new StringValue(getStringValue()));
}

/**
 * Get the typed value of this node.
 * Returns the string value, as an instance of xs:string
 */

public Value atomize() {
    return new StringValue(getStringValue());
}

public final int getNodeKind() {
    return Type.PROCESSING_INSTRUCTION;
}

/**
 * Get the base URI of this processing instruction node.
 */

public String getBaseURI() {
    return Navigator.getBaseURI(this);
}

/**
 * Copy this node to a given outputter
 */

public void copy(Receiver out, int whichNamespaces, boolean copyAnnotations, int locationId) throws
XPathException {
    out.processingInstruction(getDisplayName(), getStringValue(), 0, 0);
}

```

```

// DOM methods

/**
 * The target of this processing instruction. XML defines this as being
 * the first token following the markup that begins the processing
 * instruction.
 * @return the "target", or in XDM terms, the name of the processing instruction
 */

public String getTarget() {
    return getDisplayName();
}

/**
 * The content of this processing instruction. This is from the first non
 * white space character after the target to the character immediately
 * preceding the > .
 * @return the content of the processing instruction (in XDM this is the
 * same as its string value)
 */

public String getData() {
    return getStringValue();
}

}

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//
package net.sf.saxon.tinytree;
import net.sf.saxon.event.Receiver;
import net.sf.saxon.om.FastStringBuffer;

```

```

import net.sf.saxon.om.NamePool;
import net.sf.saxon.om.NodeInfo;
import net.sf.saxon.trans.XPathException;
import net.sf.saxon.type.Type;

/**
 * A node in the XML parse tree representing an attribute. Note that this is
 * generated only "on demand", when the attribute is selected by a select pattern.<P>
 * @author Michael H. Kay
 */

final class TinyAttributeImpl extends TinyNodeImpl {

    public TinyAttributeImpl(TinyTree tree, int nodeNr) {
        this.tree = tree;
        this.nodeNr = nodeNr;
    }

    public void setSystemId(String uri) {
        // no action: an attribute has the same base URI as its parent
    }

    /**
     * Get the parent node
     */

    public NodeInfo getParent() {
        return tree.getNode(tree.attParent[nodeNr]);
    }

    /**
     * Get the root node of the tree (not necessarily a document node)
     *
     * @return the NodeInfo representing the root of this tree
     */

    public NodeInfo getRoot() {
        NodeInfo parent = getParent();
        if (parent == null) {
            return this; // doesn't happen - parentless attributes are represented by the Orphan class
        } else {
            return parent.getRoot();
        }
    }

    /**

```

```

* Get the node sequence number (in document order). Sequence numbers are monotonic but not
* consecutive. In this implementation, elements have a zero
* least-significant word, while attributes and namespaces use the same value in the top word as
* the containing element, and use the bottom word to hold
* a sequence number, which numbers namespaces first and then attributes.
*/

```

```

protected long getSequenceNumber() {
    return
        ((TinyNodeImpl)getParent()).getSequenceNumber()
        + 0x8000 +
        (nodeNr - tree.alpha[tree.attParent[nodeNr]]);
    // note the 0x8000 is to leave room for namespace nodes
}

```

```

/**
* Return the type of node.
* @return Node.ATTRIBUTE
*/

```

```

public final int getNodeKind() {
    return Type.ATTRIBUTE;
}

```

```

/**
* Return the string value of the node.
* @return the attribute value
*/

```

```

public CharSequence getStringValueCS() {
    return tree.attValue[nodeNr];
}

```

```

/**
* Return the string value of the node.
* @return the attribute value
*/

```

```

public String getStringValue() {
    return tree.attValue[nodeNr].toString();
}

```

```

/**
* Get the fingerprint of the node, used for matching names
*/

```

```

public int getFingerprint() {
    return tree.attCode[nodeNr] & 0xffff;
}

```

```

}

/**
 * Get the name code of the node, used for finding names in the name pool
 */

public int getNameCode() {
    return tree.attCode[nodeNr];
}

/**
 * Get the prefix part of the name of this node. This is the name before the ":" if any.
 * @return the prefix part of the name. For an unnamed node, return null.
 */

public String getPrefix() {
    int code = tree.attCode[nodeNr];
    if (NamePool.getPrefixIndex(code) == 0) return "";
    return tree.getNamePool().getPrefix(code);
}

/**
 * Get the display name of this node. For elements and attributes this is [prefix:]localname.
 * For unnamed nodes, it is an empty string.
 * @return The display name of this node.
 * For a node with no name, return an empty string.
 */

public String getDisplayName() {
    return tree.getNamePool().getDisplayName(tree.attCode[nodeNr]);
}

/**
 * Get the local name of this node.
 * @return The local name of this node.
 * For a node with no name, return an empty string.
 */

public String getLocalPart() {
    return tree.getNamePool().getLocalName(tree.attCode[nodeNr]);
}

/**
 * Get the URI part of the name of this node.
 * @return The URI of the namespace of this node. For the default namespace, return an
 * empty string
 */

```

```

public final String getURI() {
    return tree.getNamePool().getURI(tree.attCode[nodeNr]);
}

/**
 * Get the type annotation of this node, if any
 * The bit { @link NodeInfo#IS_DTD_TYPE } (1<<30) will be set in the case of an attribute node if the type
annotation
 * is one of ID, IDREF, or IDREFS and this is derived from DTD rather than schema validation.
 * Returns UNTYPED_ATOMIC if there is no type annotation
 */

public int getTypeAnnotation() {
    return tree.getAttributeAnnotation(nodeNr);
}

/**
 * Generate id. Returns key of owning element with the attribute namecode as a suffix
 * @param buffer Buffer to contain the generated ID value
 */

public void generateId(FastStringBuffer buffer) {
    getParent().generateId(buffer);
    buffer.append("a");
    buffer.append(Integer.toString(tree.attCode[nodeNr]));
    // we previously used the attribute name. But this breaks the requirement
    // that the result of generate-id consists entirely of alphanumeric ASCII
    // characters
}

/**
 * Copy this node to a given outputter
 */

public void copy(Receiver out, int whichNamespaces, boolean copyAnnotations, int locationId) throws
XPathException {
    int nameCode = tree.attCode[nodeNr];
    int typeCode = (copyAnnotations ? getTypeAnnotation() : -1);
    out.attribute(nameCode, typeCode, getStringValue(), locationId, 0);
}

/**
 * Get the line number of the node within its source document entity
 */

public int getLineNumber() {
    return getParent().getLineNumber();
}

```

```

}

/**
 * Get the column number of the node within its source document entity
 */

public int getColumnNumber() {
    return getParent().getColumnNumber();
}

/**
 * Determine whether the node has the is-nilled property
 * @return true if the node has the is-nilled property
 */

public boolean isNilled() {
    return false;
}

/**
 * Determine whether this node has the is-id property
 *
 * @return true if the node is an ID
 */

public boolean isId() {
    return tree.isIdAttribute(nodeNr);
}

/**
 * Determine whether this node has the is-idref property
 *
 * @return true if the node is an IDREF or IDREFS element or attribute
 */

public boolean isIdref() {
    return tree.isIdrefAttribute(nodeNr);
}

}

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//
package net.sf.saxon.tinytree;

import java.io.Writer;
import java.io.Serializable;

/**
 * This is an implementation of the JDK 1.4 CharSequence interface: it implements
 * a CharSequence as a view of an array. The implementation relies on the array
 * being immutable: as a minimum, the caller is required to ensure that the array
 * contents will not change so long as the CharSlice remains in existence.
 *
 * This class should be more efficient than String because it avoids copying the
 * characters unnecessarily.
 *
 * The methods in the class don't check their arguments. Incorrect arguments will
 * generally result in exceptions from lower-level classes.
 */
public final class CharSlice implements CharSequence, Serializable {

    private char[] array;
    private int offset;
    private int count;

    /**
     * Create a CharSlice that maps to the whole of a char[] array
     * @param array the char[] array
     */

    public CharSlice(char[] array) {
        this.array = array;
        offset = 0;
        count = array.length;
    }

    /**
     * Create a CharSlice that maps to a section of a char[] array
     * @param array the char[] array

```



```

* @param start position of the first character to be included
* @param length number of characters to be included
*/

public CharSlice(char[] array, int start, int length) {
    this.array = array;
    offset = start;
    count = length;
    if (start + length > array.length) {
        throw new IndexOutOfBoundsException("start(" + start +
            ") + length(" + length + ") > size(" + array.length + ')');
    }
}

/**
 * Returns the length of this character sequence. The length is the number
 * of 16-bit Unicode characters in the sequence. </p>
 *
 * @return the number of characters in this sequence
 */
public int length() {
    return count;
}

/**
 * Set the length of this character sequence, without changing the array and start offset
 * to which it is bound
 * @param length the new length of the CharSlice (which must be less than the existing length,
 * though this is not enforced)
 */
public void setLength(int length) {
    count = length;
}

/**
 * Returns the character at the specified index. An index ranges from zero
 * to <tt>length() - 1</tt>. The first character of the sequence is at
 * index zero, the next at index one, and so on, as for array
 * indexing. </p>
 *
 * @param index the index of the character to be returned
 * @return the specified character
 * @throws java.lang.IndexOutOfBoundsException
 *         if the <tt>index</tt> argument is negative or not less than
 *         <tt>length()</tt>
 */
public char charAt(int index) {
    return array[offset+index];
}

```

```

}

/**
 * Returns a new character sequence that is a subsequence of this sequence.
 * The subsequence starts with the character at the specified index and
 * ends with the character at index <tt>end - 1</tt>. The length of the
 * returned sequence is <tt>end - start</tt>, so if <tt>start == end</tt>
 * then an empty sequence is returned. </p>
 *
 * @param start the start index, inclusive
 * @param end the end index, exclusive
 *
 * @return the specified subsequence
 *
 * @throws java.lang.IndexOutOfBoundsException
 *         if <tt>start</tt> or <tt>end</tt> are negative,
 *         if <tt>end</tt> is greater than <tt>length()</tt>,
 *         or if <tt>start</tt> is greater than <tt>end</tt>
 */
public CharSequence subSequence(int start, int end) {
    return new CharSlice(array, offset+start, end-start);
}

/**
 * Convert to a string
 */

public String toString() {
    return new String(array, offset, count);
}

/**
 * Compare equality
 */

public boolean equals(Object other) {
    return toString().equals(other);
}

/**
 * Generate a hash code
 */

public int hashCode() {
    // Same algorithm as String#hashCode(), but not cached
    int end = offset+count;
    int h = 0;
    for (int i = offset; i < end; i++) {

```

```

        h = 31 * h + array[i];
    }
    return h;
}

/**
 * Get the index of a specific character in the sequence. Returns -1 if not found.
 * This method mimics {@link String#indexOf}
 * @param c the character to be found
 * @return the position of the first occurrence of that character, or -1 if not found.
 */

public int indexOf(char c) {
    int end = offset+count;
    for (int i = offset; i < end; i++) {
        if (array[i] == c) {
            return i-offset;
        }
    }
    return -1;
}

/**
 * Returns a new character sequence that is a subsequence of this sequence.
 * Unlike subSequence, this is guaranteed to return a String.
 * @param start position of the first character to be included (relative to the
 * start of the CharSlice, not the underlying array)
 * @param end position of the first character <b>not</b> to be included (relative
 * to the start of the CharSlice)
 * @return the substring, as a String object
 */

public String substring(int start, int end) {
    return new String(array, offset+start, end-start);
}

/**
 * Append the contents to another array at a given offset. The caller is responsible
 * for ensuring that sufficient space is available.
 * @param destination the array to which the characters will be copied
 * @param destOffset the offset in the target array where the copy will start
 */

public void copyTo(char[] destination, int destOffset) {
    System.arraycopy(array, offset, destination, destOffset, count);
}

/**

```

```

* Write the value to a writer
* @param writer the writer to be written to
*/

public void write(Writer writer) throws java.io.IOException {
    writer.write(array, offset, count);
}

}

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//
package net.sf.saxon.tinytree;
import net.sf.saxon.event.Receiver;
import net.sf.saxon.trans.XPathException;
import net.sf.saxon.type.Type;
import net.sf.saxon.om.FastStringBuffer;

/**
 * A node in the XML parse tree representing a text node with compressed whitespace content
 * @author Michael H. Kay
 */

public final class WhitespaceTextImpl extends TinyNodeImpl {

    // TODO: make this class implement CharSequence directly, avoiding the need to create a CompressedWhitespace
    object

    /**
     * Create a compressed whitespace text node
     * @param tree the tree to contain the node
     * @param nodeNr the internal node number
     */

```

```

public WhitespaceTextImpl(TinyTree tree, int nodeNr) {
    this.tree = tree;
    this.nodeNr = nodeNr;
}

/**
 * Return the character value of the node.
 * @return the string value of the node
 */

public String getStringValue() {
    return getStringValueCS().toString();
}

/**
 * Get the value of the item as a CharSequence. This is in some cases more efficient than
 * the version of the method that returns a String. For a WhitespaceTextImpl node, it avoids the
 * cost of decompressing the whitespace
 */

public CharSequence getStringValueCS() {
    long value = ((long)tree.alpha[nodeNr]<<32) | ((long)tree.beta[nodeNr] & 0xffffffffL);
    return new CompressedWhitespace(value);
}

/**
 * Static method to get the string value of a text node without first constructing the node object
 * @param tree the tree
 * @param nodeNr the node number of the text node
 * @return the string value of the text node
 */

public static CharSequence getStringValue(TinyTree tree, int nodeNr) {
    long value = ((long)tree.alpha[nodeNr]<<32) | ((long)tree.beta[nodeNr] & 0xffffffffL);
    return new CompressedWhitespace(value);
}

/**
 * Static method to get the string value of a text node and append it to a supplied buffer
 * without first constructing the node object
 * @param tree the tree
 * @param nodeNr the node number of the text node
 * @param buffer a buffer to which the string value will be appended
 */

public static void appendStringValue(TinyTree tree, int nodeNr, FastStringBuffer buffer) {
    long value = ((long)tree.alpha[nodeNr]<<32) | ((long)tree.beta[nodeNr] & 0xffffffffL);

```

```

        CompressedWhitespace.uncompress(value, buffer);
    }

    /**
     * Static method to get the "long" value representing the content of a whitespace text node
     * @param tree the TinyTree
     * @param nodeNr the internal node number
     * @return a value representing the compressed whitespace content
     * @see CompressedWhitespace
     */

    public static long getLongValue(TinyTree tree, int nodeNr) {
        return ((long)tree.alpha[nodeNr]<<32) | ((long)tree.beta[nodeNr] & 0xffffffffL);
    }

    /**
     * Return the type of node.
     * @return Type.TEXT
     */

    public final int getNodeKind() {
        return Type.TEXT;
    }

    /**
     * Copy this node to a given outputter
     */

    public void copy(Receiver out, int whichNamespaces, boolean copyAnnotations, int locationId) throws
    XPathException {
        out.characters(getStringValueCS(), 0, 0);
    }

}

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```

```

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//
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//
package net.sf.saxon.tinytree;
import net.sf.saxon.Configuration;
import net.sf.saxon.sort.IntHashMap;
import net.sf.saxon.event.Receiver;
import net.sf.saxon.om.*;
import net.sf.saxon.trans.XPathException;
import net.sf.saxon.type.Type;

import java.util.*;

/**
 * A node in the XML parse tree representing the Document itself (or equivalently, the root
 * node of the Document).<P>
 */

public final class TinyDocumentImpl extends TinyParentNodeImpl
    implements DocumentInfo {

    private HashMap idTable = null;
    private IntHashMap elementList = null;
    private HashMap entityTable = null;
    private String baseURI = null;

    public TinyDocumentImpl(TinyTree tree) {
        this.tree = tree;
        nodeNr = tree.numberOfNodes;
    }

    /**
     * Get the tree containing this node
     */

    public TinyTree getTree() {
        return tree;
    }

    /**
     * Set the Configuration that contains this document
     */

```

```

public void setConfiguration(Configuration config) {
    if (config != tree.getConfiguration()) {
        throw new IllegalArgumentException(
            "Configuration of document differs from that of the supporting TinyTree");
    }
}

/**
 * Get the configuration previously set using setConfiguration
 */

public Configuration getConfiguration() {
    return tree.getConfiguration();
}

/**
 * Set the system id of this node
 */

public void setSystemId(String uri) {
    tree.setSystemId(nodeNr, uri);
}

/**
 * Get the system id of this root node
 */

public String getSystemId() {
    return tree.getSystemId(nodeNr);
}

/**
 * Set the base URI of this document node
 */

public void setBaseURI(String uri) {
    baseURI = uri;
}

/**
 * Get the base URI of this root node.
 */

public String getBaseURI() {
    if (baseURI != null) {
        return baseURI;
    }
    return getSystemId();
}

```



```

}

/**
 * Get the line number of this root node.
 * @return 0 always
 */

public int getLineNumber() {
    return 0;
}

/**
 * Return the type of node.
 * @return Type.DOCUMENT (always)
 */

public final int getNodeKind() {
    return Type.DOCUMENT;
}

/**
 * Find the parent node of this node.
 * @return The Node object describing the containing element or root node.
 */

public NodeInfo getParent() {
    return null;
}

/**
 * Get the root node
 * @return the NodeInfo that is the root of the tree - not necessarily a document node
 */

public NodeInfo getRoot() {
    return this;
}

/**
 * Get the root (document) node
 * @return the DocumentInfo representing the document node, or null if the
 * root of the tree is not a document node
 */

public DocumentInfo getDocumentRoot() {
    return this;
}

```

```

/**
 * Get a character string that uniquely identifies this node
 * @param buffer to contain an identifier based on the document number
 */

public void generateId(FastStringBuffer buffer) {
    buffer.append('d');
    buffer.append(Integer.toString(getDocumentNumber()));
}

/**
 * Get a list of all elements with a given name. This is implemented
 * as a memo function: the first time it is called for a particular
 * element type, it remembers the result for next time.
 */

AxisIterator getAllElements(int fingerprint) {
    if (elementList==null) {
        elementList = new IntHashMap(20);
    }
    List list = (List)elementList.get(fingerprint);
    if (list==null) {
        list = getElementList(fingerprint);
        elementList.put(fingerprint, list);
    }
    return new NodeListIterator(list);
}

/**
 * Get a list containing all the elements with a given element name
 * @param fingerprint the fingerprint of the element name
 * @return list a List containing the TinyElementImpl objects
 */

List getElementList(int fingerprint) {
    int size = tree.getNumberOfNodes()/20;
    if (size > 100) {
        size = 100;
    }
    if (size < 20) {
        size = 20;
    }
    List list = new ArrayList(size);
    int i = nodeNr+1;
    try {
        while (tree.depth[i] != 0) {
            if (tree.nodeKind[i]==Type.ELEMENT &&
                (tree.nameCode[i] & 0xffff) == fingerprint) {

```

```

        list.add(tree.getNode(i));
    }
    i++;
}
} catch (ArrayIndexOutOfBoundsException e) {
    // this shouldn't happen. If it does happen, it means the tree wasn't properly closed
    // during construction (there is no stopper node at the end). In this case, we'll recover
    return list;
}
return list;
}

/**
 * Register a unique element ID. Fails if there is already an element with that ID.
 * @param e The NodeInfo (always an element) having a particular unique ID value
 * @param id The unique ID value. The caller is responsible for checking that this
 * is a valid NCName.
 */

void registerID(NodeInfo e, String id) {
    if (idTable==null) {
        idTable = new HashMap(256);
    }

    // the XPath spec (5.2.1) says ignore the second ID if it's not unique
    NodeInfo old = (NodeInfo)idTable.get(id);
    if (old==null) {
        idTable.put(id, e);
    }
}

/**
 * Get the element with a given ID.
 * @param id The unique ID of the required element, previously registered using registerID()
 * @return The NodeInfo (always an Element) for the given ID if one has been registered,
 * otherwise null.
 */

public NodeInfo selectID(String id) {
    if (idTable==null) return null; // no ID values found
    return (NodeInfo)idTable.get(id);
}

/**
 * Set an unparsed entity URI associated with this document. For system use only, while
 * building the document.
 */

```

```

void setUnparsedEntity(String name, String uri, String publicId) {
    if (entityTable==null) {
        entityTable = new HashMap(20);
    }
    String[] ids = new String[2];
    ids[0] = uri;
    ids[1] = publicId;
    entityTable.put(name, ids);
}

/**
 * Get the list of unparsed entities defined in this document
 * @return an Iterator, whose items are of type String, containing the names of all
 * unparsed entities defined in this document. If there are no unparsed entities or if the
 * information is not available then an empty iterator is returned
 */

public Iterator getUnparsedEntityNames() {
    if (entityTable == null) {
        return Collections.EMPTY_LIST.iterator();
    } else {
        return entityTable.keySet().iterator();
    }
}

/**
 * Get the unparsed entity with a given nameID if there is one, or null if not. If the entity
 * does not exist, return null.
 * @param name the name of the entity
 * @return if the entity exists, return an array of two Strings, the first holding the system ID
 * of the entity, the second holding the public
 */

public String[] getUnparsedEntity(String name) {
    if (entityTable==null) {
        return null;
    }
    return (String[])entityTable.get(name);
}

/**
 * Copy this node to a given outputter
 */

public void copy(Receiver out, int whichNamespaces, boolean copyAnnotations, int locationId) throws
XPathException {

```

```

out.startDocument(0);

// output the children

AxisIterator children = iterateAxis(Axis.CHILD);
while (true) {
    NodeInfo n = (NodeInfo)children.next();
    if (n == null) {
        break;
    }
    n.copy(out, whichNamespaces, copyAnnotations, locationId);
}

out.endDocument();
}

public void showSize() {
    tree.showSize();
}

}

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//
package net.sf.saxon.tinytree;
import net.sf.saxon.event.Receiver;
import net.sf.saxon.trans.XPathException;
import net.sf.saxon.type.Type;

/**
 * A node in the XML parse tree representing character content
 * @author Michael H. Kay
 */

```

```

public final class TinyTextImpl extends TinyNodeImpl {

    /**
     * Create a text node
     * @param tree the tree to contain the node
     * @param nodeNr the internal node number
     */

    public TinyTextImpl(TinyTree tree, int nodeNr) {
        this.tree = tree;
        this.nodeNr = nodeNr;
    }

    /**
     * Return the character value of the node.
     * @return the string value of the node
     */

    public String getStringValue() {
        int start = tree.alpha[nodeNr];
        int len = tree.beta[nodeNr];
        //return new String(tree.charBuffer, start, len);
        return tree.charBuffer.substring(start, start+len);
    }

    /**
     * Get the value of the item as a CharSequence. This is in some cases more efficient than
     * the version of the method that returns a String.
     */

    public CharSequence getStringValueCS() {
        int start = tree.alpha[nodeNr];
        int len = tree.beta[nodeNr];
        return tree.charBuffer.subSequence(start, start+len);
    }

    /**
     * Static method to get the string value of a text node without first constructing the node object
     * @param tree the tree
     * @param nodeNr the node number of the text node
     * @return the string value of the text node
     */

    public static CharSequence getStringValue(TinyTree tree, int nodeNr) {
        int start = tree.alpha[nodeNr];
        int len = tree.beta[nodeNr];
        //return new CharSlice(tree.charBuffer, start, len);
    }
}

```

```

        return tree.charBuffer.subSequence(start, start+len);
    }

    /**
     * Return the type of node.
     * @return Type.TEXT
     */

    public final int getNodeKind() {
        return Type.TEXT;
    }

    /**
     * Copy this node to a given outputter
     */

    public void copy(Receiver out, int whichNamespaces, boolean copyAnnotations, int locationId) throws
XPathException {
        out.characters(getStringValueCS(), 0, 0);
    }

}

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//
package net.sf.saxon.tinytree;
import net.sf.saxon.Configuration;
import net.sf.saxon.event.*;
import net.sf.saxon.om.*;
import net.sf.saxon.trans.XPathException;
import net.sf.saxon.type.SchemaType;
import net.sf.saxon.type.SimpleType;

```

```

import net.sf.saxon.type.Type;

/**
 * A node in the XML parse tree representing an XML element.<P>
 * This class is an implementation of NodeInfo. The object is a wrapper around
 * one entry in the arrays maintained by the TinyTree. Note that the same node
 * might be represented by different TinyElementImpl objects at different times.
 * @author Michael H. Kay
 */

final class TinyElementImpl extends TinyParentNodeImpl {

    /**
     * Constructor - create a tiny element node
     * @param tree the Tinytree containing the node
     * @param nodeNr the node number
     */

    public TinyElementImpl(TinyTree tree, int nodeNr) {
        this.tree = tree;
        this.nodeNr = nodeNr;
    }

    /**
     * Return the type of node.
     * @return Type.ELEMENT
     */

    public final int getNodeKind() {
        return Type.ELEMENT;
    }

    /**
     * Get the base URI of this element node. This will be the same as the System ID unless
     * xml:base has been used.
     */

    public String getBaseURI() {
        return Navigator.getBaseURI(this);
    }

    /**
     * Get the type annotation of this node, if any
     * Returns Type.UNTYPED_ANY if there is no type annotation
     */

    public int getTypeAnnotation() {

```



```

    return tree.getTypeAnnotation(nodeNr) & NamePool.FP_MASK;
}

/**
 * Get all namespace undeclarations and undeclarations defined on this element.
 *
 * @param buffer If this is non-null, and the result array fits in this buffer, then the result
 *     may overwrite the contents of this array, to avoid the cost of allocating a new array on the heap.
 * @return An array of integers representing the namespace declarations and undeclarations present on
 *     this element. For a node other than an element, return null. Otherwise, the returned array is a
 *     sequence of namespace codes, whose meaning may be interpreted by reference to the name pool. The
 *     top half word of each namespace code represents the prefix, the bottom half represents the URI.
 *     If the bottom half is zero, then this is a namespace undeclaration rather than a declaration.
 *     The XML namespace is never included in the list. If the supplied array is larger than required,
 *     then the first unused entry will be set to -1.
 *
 * <p/>
 * <p>For a node other than an element, the method returns null.</p>
 */

public int[] getDeclaredNamespaces(int[] buffer) {
    return getDeclaredNamespaces(tree, nodeNr, buffer);
}

/**
 * Static method to get all namespace undeclarations and undeclarations defined on a given element,
 * without instantiating the node object.
 * @param tree The tree containing the given element node
 * @param nodeNr The node number of the given element node within the tinyTree
 * @param buffer If this is non-null, and the result array fits in this buffer, then the result
 *     may overwrite the contents of this array, to avoid the cost of allocating a new array on the heap.
 * @return An array of integers representing the namespace declarations and undeclarations present on
 *     this element. For a node other than an element, return null. Otherwise, the returned array is a
 *     sequence of namespace codes, whose meaning may be interpreted by reference to the name pool. The
 *     top half word of each namespace code represents the prefix, the bottom half represents the URI.
 *     If the bottom half is zero, then this is a namespace undeclaration rather than a declaration.
 *     The XML namespace is never included in the list. If the supplied array is larger than required,
 *     then the first unused entry will be set to -1.
 *
 * <p/>
 * <p>For a node other than an element, the method returns null.</p>
 */

static int[] getDeclaredNamespaces(TinyTree tree, int nodeNr, int[] buffer) {
    int ns = tree.beta[nodeNr]; // by convention
    if (ns>0) {
        int count = 0;
        while (ns < tree.numberOfWorkNamespaces &&
            tree.namespaceParent[ns] == nodeNr) {
            count++;
        }
    }
}

```

```

        ns++;
    }
    if (count == 0) {
        return NodeInfo.EMPTY_NAMESPACE_LIST;
    } else if (buffer != null && count <= buffer.length) {
        System.arraycopy(tree.namespaceCode, tree.beta[nodeNr], buffer, 0, count);
        if (count < buffer.length) {
            buffer[count] = -1;
        }
        return buffer;
    } else {
        int[] array = new int[count];
        System.arraycopy(tree.namespaceCode, tree.beta[nodeNr], array, 0, count);
        return array;
    }
} else {
    return NodeInfo.EMPTY_NAMESPACE_LIST;
}
}

/**
 * Get all the inscope namespaces for an element node. This method is better than the generic method
 * provided by {@link net.sf.saxon.om.NamespaceIterator} because it doesn't require the element node
 * (or its ancestors) to be instantiated as objects.
 * @param tree the TinyTree containing the element node whose in-scope namespaces are required
 * @param nodeNr the node number of the element node within the TinyTree. The caller is responsible
 * for ensuring that this is indeed an element node
 * @param buffer a buffer to hold the result, assuming it is large enough
 * @return an integer array of namespace codes representing the inscope namespaces of the given element.
 * The returned array will either be fully used, or it will contain a -1 entry marking the effective end
 * of the list of namespace codes. Note that only distinct declared namespaces are included in the result;
 * it does not contain any entries for namespace undeclarations or for overridden declarations.
 */

static int[] getInScopeNamespaces(TinyTree tree, int nodeNr, int[] buffer) {

    if (buffer == null || buffer.length == 0) {
        buffer = new int[10];
    }
    buffer[0] = NamespaceConstant.XML_NAMESPACE_CODE;
    int used = 1;

    if (tree.usesNamespaces) {
        do {
            // gather the namespaces declared for this node
            int ns = tree.beta[nodeNr]; // by convention
            if (ns > 0) {
                while (ns < tree.numberofNamespaces &&

```

```

        tree.namespaceParent[ns] == nodeNr ) {
int nscope = tree.namespaceCode[ns];

// See if the prefix has already been declared; if so, this declaration is ignored
short prefixCode = (short)(nscope >> 16);
boolean duplicate = false;
for (int i=0; i<used; i++) {
    if ((buffer[i] >> 16) == prefixCode) {
        duplicate = true;
        break;
    }
}
if (!duplicate) {
    if (used >= buffer.length) {
        int[] b2 = new int[used*2];
        System.arraycopy(buffer, 0, b2, 0, used);
        buffer = b2;
    }
    buffer[used++] = nscope;
}
ns++;
}
}

// move on to the parent of this node
nodeNr = getParentNodeNr(tree, nodeNr);
} while (nodeNr != -1);

// The list of namespaces we have built up includes undeclarations as well as declarations.
// We now remove the undeclarations (which have a URI code of zero)

int j = 0;
for (int i=0; i<used; i++) {
    int nscope = buffer[i];
    if ((nscope & 0xffff) != 0) {
        buffer[j++] = nscope;
    }
}
used = j;
}

// If there are unused entries at the end of the array, add a -1 to mark the end
if (used < buffer.length) {
    buffer[used] = -1;
}

return buffer;
}

```

```

/**
 * Get the value of a given attribute of this node
 * @param fingerprint The fingerprint of the attribute name
 * @return the attribute value if it exists or null if not
 */

public String getAttributeValue(int fingerprint) {
    int a = tree.alpha[nodeNr];
    if (a<0) return null;
    while (a < tree.numberOfAttributes && tree.attParent[a] == nodeNr) {
        if ((tree.attCode[a] & 0xffff) == fingerprint ) {
            return tree.attValue[a].toString();
        }
        a++;
    }
    return null;
}

/**
 * Copy this node to a given receiver
 * @param whichNamespaces indicates which namespaces should be copied: all, none,
 * or local (i.e., those not declared on a parent element)
 */

public void copy(Receiver receiver, int whichNamespaces, boolean copyAnnotations, int locationId) throws
XPathException {

    // Based on an algorithm supplied by Ruud Diterwich

    // Performance measurements show that this achieves no speed-up over the OLD version
    // (in 7.4). So might as well switch back.

    // control vars
    short level = -1;
    boolean closePending = false;
    short startLevel = tree.depth[nodeNr];
    boolean first = true;
    boolean disallowNamespaceSensitiveContent =
        whichNamespaces == NO_NAMESPACES &&
        copyAnnotations;
    Configuration config = null;
    int next = nodeNr;
    boolean setLocation = (receiver instanceof CopyInformee);

    // document.diagnosticDump();

```

```

do {

// determine node depth
short nodeLevel = tree.depth[next];

// extra close required?
if (closePending) {
    level++;
}

// close former elements
for (; level > nodeLevel; level--) {
    receiver.endElement();
}

// new node level
level = nodeLevel;

// output depends on node kind
switch (tree.nodeKind[next]) {
    case Type.ELEMENT : {

// start element
        final int typeCode = (copyAnnotations ? tree.getTypeAnnotation(next):
StandardNames.XS_UNTYPED);
        if (disallowNamespaceSensitiveContent) {
            if (config == null) {
                config = getConfiguration();
            }
            checkNotNamespaceSensitive(config, typeCode);
        }
        if (setLocation) {
            ((CopyInformee)receiver).notifyElementNode(tree.getNode(next));
        }
        receiver.startElement(tree.nameCode[next],
            typeCode,
            locationId, 0);

// there is an element to close
closePending = true;

// output namespaces
        if (whichNamespaces != NO_NAMESPACES && tree.usesNamespaces) {
            if (first) {
                switch (whichNamespaces) {
                    case NodeInfo.NO_NAMESPACES:
                        break;
                    case NodeInfo.LOCAL_NAMESPACES:

```

```

        int[] localNamespaces = getDeclaredNamespaces(null);
        for (int i=0; i<localNamespaces.length; i++) {
            int ns = localNamespaces[i];
            if (ns == -1) {
                break;
            }
            receiver.namespace(ns, 0);
        }
        break;
    case NodeInfo.ALL_NAMESPACES:
        NamespaceCodeIterator.sendNamespaces(this, receiver);
        break;
    }
} else {
    int ns = tree.beta[next]; // by convention
    if (ns>0) {
        while (ns < tree.numberOfNamespaces &&
            tree.namespaceParent[ns] == next ) {
            int nscode = tree.namespaceCode[ns];
            receiver.namespace(nscode, 0);
            ns++;
        }
    }
}
}
}
}
first = false;

// output attributes

int att = tree.alpha[next];
if (att >= 0) {
    while (att < tree.numberOfAttributes && tree.attParent[att] == next ) {
        int attCode = tree.attCode[att];
        int attType = (copyAnnotations ?
            tree.getAttributeAnnotation(att) :
            StandardNames.XS_UNTYPED_ATOMIC);
        if (disallowNamespaceSensitiveContent) {
            if (config == null) {
                config = getConfiguration();
            }
            checkNotNamespaceSensitive(config, attType);
        }
        receiver.attribute(attCode, attType, tree.attValue[att], locationId, 0);
        att++;
    }
}
}

// start content

```

```

receiver.startContent();
break;
    }
case Type.TEXT: {

    // don't close text nodes
    closePending = false;

    // output characters
    final CharSequence value = TinyTextImpl.getStringValue(tree, next);
    receiver.characters(value, locationId, ReceiverOptions.WHOLE_TEXT_NODE);
    break;
    }

    case Type.WHITESPACE_TEXT: {

    // don't close text nodes
    closePending = false;

    // output characters
    final CharSequence value = WhitespaceTextImpl.getStringValue(tree, next);
    receiver.characters(value, locationId, ReceiverOptions.WHOLE_TEXT_NODE);
    break;
    }

case Type.COMMENT : {

    // don't close text nodes
    closePending = false;

    // output copy of comment
    int start = tree.alpha[next];
    int len = tree.beta[next];
    if (len>0) {
        receiver.comment(tree.commentBuffer.subSequence(start, start+len), locationId, 0);
    } else {
        receiver.comment("", 0, 0);
    }
    break;
    }
case Type.PROCESSING_INSTRUCTION : {

    // don't close text nodes
    closePending = false;

    // output copy of PI
    NodeInfo pi = tree.getNode(next);
    receiver.processingInstruction(pi.getLocalPart(), pi.getStringValue(), locationId, 0);

```

```

break;
    }

    case Type.PARENT_POINTER : {
        closePending = false;
    }
}

next++;

} while (next < tree.numberOfNodes && tree.depth[next] > startLevel);

// close all remaining elements
if (closePending) {
    level++;
}
for (; level > startLevel; level--) {
    receiver.endElement();
}
}

private void checkNotNamespaceSensitive(Configuration config, final int typeCode) throws XPathException {
    SchemaType type = config.getSchemaType(typeCode & NamePool.FP_MASK);
    if (type instanceof SimpleType && ((SimpleType)type).isNamespaceSensitive()) {
        throw new CopyNamespaceSensitiveException(
            "Cannot copy QName or NOTATION values without copying namespaces");
//        err.setErrorCode((language == Configuration.XSLT ? "XTTE0950" : "XQTY0086"));
//        throw err;
    }
}

// public void copyOLD(Receiver out, int whichNamespaces, boolean copyAnnotations) throws XPathException {
//
//     int nc = getNameCode();
//     int typeCode = (copyAnnotations ? getTypeAnnotation() : 0);
//     out.startElement(nc, typeCode, 0, 0);
//
//     // output the namespaces
//
//     if (whichNamespaces != NO_NAMESPACES) {
//         outputNamespaceNodes(out, whichNamespaces==ALL_NAMESPACES);
//     }
//
//     // output the attributes
//
//     int a = document.alpha[nodeNr];
//     if (a >= 0) {
//         while (a < document.numberOfAttributes && document.attParent[a] == nodeNr) {

```



```

//      document.getAttributeNode(a).copy(out, NO_NAMESPACES, copyAnnotations, locationId);
//      a++;
//    }
//  }
//
//  // output the children
//
//  AxisIterator children =
//    iterateAxis(Axis.CHILD, AnyNodeTest.getInstance());
//
//  int childNamespaces = (whichNamespaces==NO_NAMESPACES ? NO_NAMESPACES :
LOCAL_NAMESPACES);
//  while (true) {
//    NodeInfo next = (NodeInfo)children.next();
//    if (next==null) break;
//    next.copy(out, childNamespaces, copyAnnotations, locationId);
//  }
//  out.endElement();
// }

```

```
/**
```

```

* Get the namespace URI corresponding to a given prefix. Return null
* if the prefix is not in scope.
*
* @param prefix    the namespace prefix. May be the zero-length string, indicating
*                  that there is no prefix. This indicates either the default namespace or the
*                  null namespace, depending on the value of useDefault.
* @param useDefault true if the default namespace is to be used when the
*                  prefix is "". If false, the method returns "" when the prefix is "".
* @return the uri for the namespace, or null if the prefix is not in scope.
*        The "null namespace" is represented by the pseudo-URI "".
*/

```

```

public String getURIForPrefix(String prefix, boolean useDefault) {
  if (!useDefault && (prefix==null || prefix.length()==0)) {
    return "";
  }
  int prefixCode = getNamePool().getCodeForPrefix(prefix);
  if (prefixCode == -1) {
    return null;
  }
  int ns = tree.beta[nodeNr]; // by convention
  if (ns>0) {
    while (ns < tree.numberOfNamespaces &&
          tree.namespaceParent[ns] == nodeNr) {
      int nscode = tree.namespaceCode[ns];

```

```

    if ((nscode >> 16) == prefixCode) {
        int uriCode = nscode & 0xffff;
        if (uriCode == 0) {
            // this is a namespace undeclaration, so the prefix is not in scope
            if (prefixCode == 0) {
                // the namespace xmlns="" is always in scope
                return "";
            } else {
                return null;
            }
        } else {
            return getNamePool().getURIFromURICode((short)uriCode);
        }
    }
    ns++;
}

// now search the namespaces defined on the ancestor nodes.

NodeInfo parent = getParent();
if (parent instanceof NamespaceResolver) {
    return ((NamespaceResolver)parent).getURIForPrefix(prefix, useDefault);
}
return null;
}

/**
 * Determine whether this node has the is-id property
 *
 * @return true if the node is an ID
 */

public boolean isId() {
    // this looks very inefficient, but the method isn't actually used...
    return getDocumentRoot().selectID(getStringValue()).isSameNodeInfo(this);
}

/**
 * Determine whether this node has the is-idref property
 *
 * @return true if the node is an IDREF or IDREFS element or attribute
 */

public boolean isIdref() {
    return tree.isIdrefElement(nodeNr);
}

```

```

}

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// The new copy() routine (in version 7.4.1) is contributed by Ruud Diterwich
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//
package net.sf.saxon.tinytree;
import net.sf.saxon.event.Receiver;
import net.sf.saxon.trans.XPathException;
import net.sf.saxon.type.Type;
import net.sf.saxon.om.SequenceIterator;
import net.sf.saxon.om.SingletonIterator;
import net.sf.saxon.value.StringValue;
import net.sf.saxon.value.Value;

/**
 * TinyCommentImpl is an implementation of CommentInfo
 * @author Michael H. Kay
 */

final class TinyCommentImpl extends TinyNodeImpl {

    public TinyCommentImpl(TinyTree tree, int nodeNr) {
        this.tree = tree;
        this.nodeNr = nodeNr;
    }

    /**
     * Get the XPath string value of the comment
     */

```

```

public final String getStringValue() {
    int start = tree.alpha[nodeNr];
    int len = tree.beta[nodeNr];
    if (len==0) return "";
    char[] dest = new char[len];
    tree.commentBuffer.getChars(start, start+len, dest, 0);
    return new String(dest, 0, len);
}

/**
 * Get the typed value of this node.
 * Returns the string value, as an instance of xs:string
 */

public SequenceIterator getTypedValue() {
    return SingletonIterator.makeIterator(new StringValue(getStringValue()));
}

/**
 * Get the typed value of this node.
 * Returns the string value, as an instance of xs:string
 */

public Value atomize() {
    return new StringValue(getStringValue());
}

/**
 * Get the node type
 * @return Type.COMMENT
 */

public final int getNodeKind() {
    return Type.COMMENT;
}

/**
 * Copy this node to a given outputter
 */

public void copy(Receiver out, int whichNamespaces, boolean copyAnnotations, int locationId) throws
XPathException {
    out.comment(getStringValue(), 0, 0);
}
}

```

```

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//
package net.sf.saxon.dom;

import net.sf.saxon.Configuration;
import net.sf.saxon.FeatureKeys;
import net.sf.saxon.value.Whitespace;

import javax.xml.parsers.DocumentBuilder;
import javax.xml.parsers.DocumentBuilderFactory;
import javax.xml.parsers.ParserConfigurationException;

/**
 * Implementation of JAXP 1.1 DocumentBuilderFactory. To build a Document using
 * Saxon, set the system property javax.xml.parsers.DocumentBuilderFactory to
 * "net.sf.saxon.om.DocumentBuilderFactoryImpl" and then call
 * DocumentBuilderFactory.newInstance().newDocumentBuilder().parse(InputSource);
 */

public class DocumentBuilderFactoryImpl extends DocumentBuilderFactory {

    Configuration config = null;
    boolean xIncludeAware = false;

    public DocumentBuilderFactoryImpl() {
        setCoalescing(true);
        setExpandEntityReferences(true);
        setIgnoringComments(false);
        setIgnoringElementContentWhitespace(false);
        setNamespaceAware(true);
        setValidating(false);
    }

```

```

}

/**
 * Allows the user to set specific attributes on the underlying
 * implementation.
 * @param name The name of the attribute. For Saxon this must be one of the
 * names defined in {@link FeatureKeys}
 * @param value The value of the attribute.
 * @exception IllegalArgumentException thrown if the underlying
 * implementation doesn't recognize the attribute.
 */

public void setAttribute(String name, Object value) {
    if (name.equals(FeatureKeys.CONFIGURATION)) {
        config = (Configuration)value;
    } else {
        if (config == null) {
            config = new Configuration();
        }
        config.setConfigurationProperty(name, value);
    }
}

/**
 * Allows the user to retrieve specific attributes on the underlying
 * implementation.
 * @param name The name of the attribute. For Saxon this must be one of the
 * names defined in {@link FeatureKeys}
 * @return value The value of the attribute.
 * @exception IllegalArgumentException thrown if the underlying
 * implementation doesn't recognize the attribute.
 */

public Object getAttribute(String name) {
    if (name.equals(FeatureKeys.CONFIGURATION)) {
        return config;
    } else {
        if (config == null) {
            config = new Configuration();
        }
        return config.getConfigurationProperty(name);
    }
}

/**
 * Creates a new instance of a {@link javax.xml.parsers.DocumentBuilder}
 * using the currently configured parameters.
 */

```

```

* @exception ParserConfigurationException if a DocumentBuilder
* cannot be created which satisfies the configuration requested.
* @return A new instance of a DocumentBuilder. For Saxon the returned DocumentBuilder
* will be an instance of { @link DocumentBuilderImpl}
*/

```

```

public DocumentBuilder newDocumentBuilder() throws ParserConfigurationException {

```

```

    // Check that configuration options are all available

```

```

    if (!isExpandEntityReferences()) {
        throw new ParserConfigurationException(
            "Saxon parser always expands entity references");
    }

```

```

    if (isIgnoringComments()) {
        throw new ParserConfigurationException(
            "Saxon parser does not allow comments to be ignored");
    }

```

```

    if (isIgnoringElementContentWhitespace()) {
        throw new ParserConfigurationException(
            "Saxon parser does not allow whitespace in element content to be ignored");
    }

```

```

    if (!isNamespaceAware()) {
        throw new ParserConfigurationException(
            "Saxon parser is always namespace aware");
    }

```

```

    DocumentBuilderImpl builder = new DocumentBuilderImpl();
    builder.setValidating(isValidating());
    builder.setXIncludeAware(xIncludeAware);
    if (isIgnoringElementContentWhitespace()) {
        builder.setStripSpace(Whitespace.IGNORABLE);
    }
    builder.setConfiguration(config);
    return builder;
}

```

```

/**

```

```

    * <p>Set a feature for this <code>DocumentBuilderFactory</code> and <code>DocumentBuilder</code>s
    created by this factory.</p>

```

```

    * <p/>

```

```

    * <p/>

```

```

    * Feature names are fully qualified { @link java.net.URI}s.

```

```

    * Implementations may define their own features.

```

```

    * An { @link javax.xml.parsers.ParserConfigurationException} is thrown if this
    <code>DocumentBuilderFactory</code> or the

```

```

    * <code>DocumentBuilder</code>s it creates cannot support the feature.

```

```

    * It is possible for an <code>DocumentBuilderFactory</code> to expose a feature value but be unable to change

```

its state.

\* </p>

\* <p/>

\* <p/>

\* All implementations are required to support the { @link `javax.xml.XMLConstants#FEATURE_SECURE_PROCESSING` } feature.

\* When the feature is:</p>

\* <ul>

\* <li>

\* <code>true</code>: the implementation will limit XML processing to conform to implementation limits.

\* Examples include entity expansion limits and XML Schema constructs that would consume large amounts of resources.

\* If XML processing is limited for security reasons, it will be reported via a call to the registered

\* { @link `org.xml.sax.ErrorHandler#fatalError(org.xml.sax.SAXParseException exception)` }.

\* See { @link `javax.xml.parsers.DocumentBuilder#setErrorHandler(org.xml.sax.ErrorHandler errorHandler)` }.

\* </li>

\* <li>

\* <code>false</code>: the implementation will process XML according to the XML specifications without

\* regard to possible implementation limits.

\* </li>

\* </ul>

\*

\* @param name Feature name.

\* @param value Is feature state <code>true</code> or <code>false</code>.

\* @throws `javax.xml.parsers.ParserConfigurationException`

\* if this <code>DocumentBuilderFactory</code> or the <code>DocumentBuilder</code>s

\* it creates cannot support this feature.

\* @throws `NullPointerException` If the <code>name</code> parameter is null.

\*/

```
public void setFeature(String name, boolean value) throws ParserConfigurationException {
    if (name.equals(FEATURE_SECURE_PROCESSING) && !value) {
        // no action
    } else {
        throw new ParserConfigurationException("Unsupported feature or value: " + name);
    }
}
```

/\*\*

\* <p>Get the state of the named feature.</p>

\* <p/>

\* <p/>

\* Feature names are fully qualified { @link `java.net.URI` }s.

\* Implementations may define their own features.

\* An { @link `javax.xml.parsers.ParserConfigurationException` } is thrown if this <code>DocumentBuilderFactory</code> or the

\* <code>DocumentBuilder</code>s it creates cannot support the feature.

\* It is possible for an <code>DocumentBuilderFactory</code> to expose a feature value but be unable to change its state.



```

* </p>
*
* @param name Feature name.
* @return State of the named feature.
* @throws javax.xml.parsers.ParserConfigurationException
*     if this <code>DocumentBuilderFactory</code>
*     or the <code>DocumentBuilder</code>s it creates cannot support this feature.
*/
public boolean getFeature(String name) throws ParserConfigurationException {
    if (name.equals(FEATURE_SECURE_PROCESSING)) {
        return false;
    } else {
        throw new ParserConfigurationException("Unsupported feature: " + name);
    }
}

/**
* <p>Get state of XInclude processing.</p>
*
* @return current state of XInclude processing
* @throws UnsupportedOperationException For backward compatibility, when implementations for
*     earlier versions of JAXP is used, this exception will be
*     thrown.
* @since 1.5
*/
public boolean isXIncludeAware() {
    return xIncludeAware;
}

/**
* <p>Set state of XInclude processing.</p>
* <p/>
* <p>If XInclude markup is found in the document instance, should it be
* processed as specified in <a href="http://www.w3.org/TR/xinclude/">
* XML Inclusions (XInclude) Version 1.0</a>.</p>
* <p/>
* <p>XInclude processing defaults to <code>>false</code>.</p>
*
* @param state Set XInclude processing to <code>>true</code> or
*     <code>>false</code>
* @throws UnsupportedOperationException For backward compatibility, when implementations for
*     earlier versions of JAXP is used, this exception will be
*     thrown.
* @since 1.5
*/
public void setXIncludeAware(boolean state) {
    xIncludeAware = state;
}

```

```

    private static String FEATURE_SECURE_PROCESSING = "http://javax.xml.XMLConstants/feature/secure-
processing";
        // XMLConstants.FEATURE_SECURE_PROCESSING in JDK 1.5

}

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//
package net.sf.saxon.dom;
import org.w3c.dom.DOMException;

/**
 * DOM operations only raise exceptions in "exceptional" circumstances,
 * i.e., when an operation is impossible to perform (either for logical
 * reasons, because data is lost, or because the implementation has become
 * unstable). In general, DOM methods return specific error values in ordinary
 * processing situations, such as out-of-bound errors when using
 * NodeList .
 * 

Implementations may raise other exceptions under other circumstances.
 * For example, implementations may raise an implementation-dependent
 * exception if a null argument is passed.
 * 

See also the Document Object Model
\(DOM\) Level 2 Specification.
 */
public class DOMExceptionImpl extends DOMException {

    public DOMExceptionImpl (short code, String message) {
        super(code, message);
        //this.code = code;
    }

    public short code;


```

```

// ExceptionCode
// public static final short INDEX_SIZE_ERR      = 1;
// public static final short DOMSTRING_SIZE_ERR  = 2;
// public static final short HIERARCHY_REQUEST_ERR = 3;
// public static final short WRONG_DOCUMENT_ERR  = 4;
// public static final short INVALID_CHARACTER_ERR = 5;
// public static final short NO_DATA_ALLOWED_ERR = 6;
// public static final short NO_MODIFICATION_ALLOWED_ERR = 7;
// public static final short NOT_FOUND_ERR      = 8;
// public static final short NOT_SUPPORTED_ERR   = 9;
// public static final short INUSE_ATTRIBUTE_ERR  = 10;
/**
 * @since DOM Level 2
 */
public static final short INVALID_STATE_ERR     = 11;
/**
 * @since DOM Level 2
 */
public static final short SYNTAX_ERR           = 12;
/**
 * @since DOM Level 2
 */
public static final short INVALID_MODIFICATION_ERR = 13;
/**
 * @since DOM Level 2
 */
public static final short NAMESPACE_ERR       = 14;
/**
 * @since DOM Level 2
 */
public static final short INVALID_ACCESS_ERR   = 15;

}

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```

```

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//
package net.sf.saxon.dom;

import org.w3c.dom.DOMException;
import org.w3c.dom.DOMImplementation;
import org.w3c.dom.Document;
import org.w3c.dom.DocumentType;

/**
 * A simple implementation of the DOMImplementation interface, for use when accessing
 * Saxon tree structure using the DOM API.
 */

class DOMImplementationImpl implements DOMImplementation {

    /**
     * Test if the DOM implementation implements a specific feature.
     * @param feature The name of the feature to test (case-insensitive).
     * @param version This is the version number of the feature to test.
     * @return <code>true</code> if the feature is implemented in the
     * specified version, <code>false</code> otherwise. This implementation
     * returns true if the feature is "XML" or "Core" and the version is null,
     * "", "3.0", "2.0", or "1.0".
     */

    public boolean hasFeature(String feature, String version) {
        return (feature.equalsIgnoreCase("XML") || feature.equalsIgnoreCase("Core")) &&
            (version == null || version.length() == 0 ||
            version.equals("3.0") || version.equals("2.0") || version.equals("1.0"));
    }

    /**
     * This method returns a specialized object which implements the
     * specialized APIs of the specified feature and version, as specified
     * in .
     * @param feature The name of the feature requested.
     * @param version This is the version number of the feature to test.
     * @return Always returns null in this implementation
     * @since DOM Level 3
     */

    public Object getFeature(String feature,
        String version) {
        return null;
    }
}

```

```

/**
 * Creates an empty <code>DocumentType</code> node.
 * @param qualifiedName The qualified name of the document type to be
 * created.
 * @param publicId The external subset public identifier.
 * @param systemId The external subset system identifier.
 * @return A new <code>DocumentType</code> node with
 * <code>Node.ownerDocument</code> set to <code>null</code> .
 * @exception org.w3c.dom.DOMException
 * INVALID_CHARACTER_ERR: Raised if the specified qualified name
 * contains an illegal character.
 * <br> NAMESPACE_ERR: Raised if the <code>qualifiedName</code> is
 * malformed.
 * @since DOM Level 2
 */

```

```

public DocumentType createDocumentType(String qualifiedName,
                                     String publicId,
                                     String systemId)
    throws DOMException
{
    NodeOverNodeInfo.disallowUpdate();
    return null;
}

```

```

/**
 * Creates an XML <code>Document</code> object of the specified type with
 * its document element.
 * @param namespaceURI The namespace URI of the document element to
 * create.
 * @param qualifiedName The qualified name of the document element to be
 * created.
 * @param doctype The type of document to be created or <code>null</code>.
 * @return A new <code>Document</code> object.
 * @exception org.w3c.dom.DOMException
 * @since DOM Level 2
 */

```

```

public Document createDocument(String namespaceURI,
                              String qualifiedName,
                              DocumentType doctype)
    throws DOMException
{
    NodeOverNodeInfo.disallowUpdate();
    return null;
}

```

```

}

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//
package net.sf.saxon.dom;

import net.sf.saxon.type.SchemaType;
import net.sf.saxon.type.AnyType;
import net.sf.saxon.Configuration;
import org.w3c.dom.TypeInfo;

/**
 * This class implements the DOM TypeInfo interface as a wrapper over the Saxon SchemaType
 * interface.
 */

public class TypeInfoImpl implements TypeInfo {

    private Configuration config;
    private SchemaType schemaType;

    /**
     * Construct a TypeInfo based on a SchemaType
     */

    public TypeInfoImpl(Configuration config, SchemaType type) {
        this.config = config;
        this.schemaType = type;
    }

    /**
     * Get the local name of the type (a system-allocated name if anonymous). Needed to implement the
     * DOM level 3 TypeInfo interface.

```

```

*/

public String getTypeName() {
    return config.getNamePool().getLocalName(schemaType.getNameCode());
}

/**
 * Get the namespace name of the type (a system-allocated name if anonymous). Needed to implement the
 * DOM level 3 TypeInfo interface.
 */

public String getTypeNamespace() {
    return config.getNamePool().getURI(schemaType.getNameCode());
}

/**
 * This method returns true if there is a derivation between the reference type definition, that is the TypeInfo
 * on which the method is being called, and the other type definition, that is the one passed as parameters.
 * This method implements the DOM Level 3 TypeInfo interface. It must be called only on a valid type.
 * @param typeNamespaceArg the namespace of the "other" type
 * @param typeNameArg the local name of the "other" type
 * @param derivationMethod the derivation method: zero or more of { @link
SchemaType#DERIVATION_RESTRICTION},
 * { @link SchemaType#DERIVATION_EXTENSION}, { @link SchemaType#DERIVATION_LIST}, or { @link
SchemaType#DERIVATION_UNION}.
 * Zero means derived by any possible route.
 */

public boolean isDerivedFrom(String typeNamespaceArg,
                             String typeNameArg,
                             int derivationMethod) throws IllegalStateException {
    SchemaType base = schemaType.getBaseType();
    int fingerprint = config.getNamePool().allocate("", typeNamespaceArg, typeNameArg);
    if (derivationMethod==0 || (derivationMethod & schemaType.getDerivationMethod()) != 0) {
        if (base.getFingerprint() == fingerprint) {
            return true;
        } else if (base instanceof AnyType) {
            return false;
        } else {
            return new TypeInfoImpl(config, base).isDerivedFrom(typeNamespaceArg, typeNameArg,
derivationMethod);
        }
    }
    return false;
    // Note: if derivationMethod is RESTRICTION, this interpretation requires every step to be derived
    // by restriction. An alternative interpretation is that at least one step must be derived by restriction.
}

```

```

}

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//
package net.sf.saxon.dom;
import net.sf.saxon.Configuration;
import net.sf.saxon.AugmentedSource;
import net.sf.saxon.value.Whitespace;
import net.sf.saxon.om.Validation;
import net.sf.saxon.event.Builder;
import net.sf.saxon.event.PipelineConfiguration;
import net.sf.saxon.event.Sender;
import net.sf.saxon.tinytree.TinyBuilder;
import net.sf.saxon.tinytree.TinyDocumentImpl;
import net.sf.saxon.trans.XPathException;
import org.w3c.dom.DOMImplementation;
import org.w3c.dom.Document;
import org.xml.sax.*;

import javax.xml.parsers.DocumentBuilder;
import javax.xml.transform.sax.SAXSource;
import javax.xml.transform.Source;
import java.io.File;
import java.io.IOException;

/**
 * This class implements the JAXP DocumentBuilder interface, allowing a Saxon TinyTree to be
 * constructed using standard JAXP parsing interfaces. The returned DOM document node is a wrapper
 * over the Saxon TinyTree structure. Note that although this wrapper
 * implements the DOM interfaces, it is read-only, and all attempts to update it will throw
 * an exception. No schema or DTD validation is carried out on the document.
 */

```



```

public class DocumentBuilderImpl extends DocumentBuilder {

    private Configuration config;
    private EntityResolver entityResolver;
    private ErrorHandler errorHandler;
    private boolean xIncludeAware;
    private boolean validating;
    private int stripSpace = Whitespace.UNSPECIFIED;

    /**
     * Set the Saxon Configuration to be used by the document builder.
     * This non-JAXP method must be called if the resulting document is to be used
     * within a Saxon query or transformation. If no Configuration is supplied,
     * Saxon creates a Configuration on the first call to the {@link #parse} method,
     * and subsequent calls reuse the same Configuration.
     *
     * <p>As an alternative to calling this method, a Configuration can be supplied by calling
     * <code>setAttribute(FeatureKeys.CONFIGURATION, config)</code> on the
     <code>DocumentBuilderFactory</code>
     * object, where <code>config</code> can be obtained by calling
     * <code>getAttribute(FeatureKeys.CONFIGURATION)</code> on the <code>TransformerFactory</code>.</p>
     *
     * @since Saxon 8.8
     */

    public void setConfiguration(Configuration config) {
        this.config = config;
    }

    /**
     * Get the Saxon Configuration to be used by the document builder. This is
     * a non-JAXP method.
     * @return the Configuration previously supplied to {@link #setConfiguration},
     * or the Configuration created automatically by Saxon on the first call to the
     * {@link #parse} method, or null if no Configuration has been supplied and
     * the {@link #parse} method has not been called.
     *
     * @since Saxon 8.8
     */

    public Configuration getConfiguration() {
        return config;
    }

    /**
     * Indicates whether or not this document builder is configured to
     * understand namespaces.
     *

```

```

* @return true if this document builder is configured to understand
*   namespaces. This implementation always returns true.
*/

public boolean isNamespaceAware() {
    return true;
}

/**
* Determine whether the document builder should perform DTD validation
* @param state set to true to request DTD validation
*/

public void setValidating(boolean state) {
    validating = state;
}

/**
* Indicates whether or not this document builder is configured to
* validate XML documents against a DTD.
*
* @return true if this parser is configured to validate
*   XML documents against a DTD; false otherwise.
*/

public boolean isValidating() {
    return validating;
}

/**
* Create a new Document Node.
* @throws UnsupportedOperationException (always). The only way to build a document using this
DocumentBuilder
* implementation is by using the parse() method.
*/

public Document newDocument() {
    throw new UnsupportedOperationException("The only way to build a document using this DocumentBuilder is
with the parse() method");
}

/**
* Parse the content of the given input source as an XML document
* and return a new DOM {@link Document} object.
*
* <p>Note: for this document to be usable as part of a Saxon query or transformation,
* the document should be built within the {@link Configuration} in which that query
* or transformation is running. This can be achieved using the non-JAXP

```

```

* {@link #setConfiguration} method.
*
* @param in InputSource containing the content to be parsed. Note that if
* an EntityResolver or ErrorHandler has been supplied, then the XMLReader contained
* in this InputSource will be modified to register this EntityResolver or ErrorHandler,
* replacing any that was previously registered.
*
* @exception SAXException If any parse errors occur.
* @return A new DOM Document object.
*/

```

```

public Document parse(InputSource in) throws SAXException {
    try {
        Builder builder = new TinyBuilder();
        if (config == null) {
            config = new Configuration();
        }
        PipelineConfiguration pipe = config.makePipelineConfiguration();
        builder.setPipelineConfiguration(pipe);
        SAXSource source = new SAXSource(in);
        if (entityResolver != null) {
            XMLReader reader = source.getXMLReader();
            if (reader == null) {
                reader = config.getSourceParser();
            }
            reader.setEntityResolver(entityResolver);
        }
        if (errorHandler != null) {
            XMLReader reader = source.getXMLReader();
            if (reader == null) {
                reader = config.getSourceParser();
            }
            reader.setErrorHandler(errorHandler);
        }
        source.setSystemId(in.getSystemId());
        Source ss = source;
        if (xIncludeAware) {
            ss = AugmentedSource.makeAugmentedSource(ss);
            ((AugmentedSource)ss).setXIncludeAware(true);
        }
        if (validating) {
            ss = AugmentedSource.makeAugmentedSource(ss);
            ((AugmentedSource)ss).setDTDValidationMode(Validation.STRICT);
        }
        if (stripSpace != Whitespace.UNSPECIFIED) {
            ss = AugmentedSource.makeAugmentedSource(ss);
            ((AugmentedSource)ss).setStripSpace(stripSpace);
        }
    }
}

```

```

        new Sender(pipe).send(source, builder);
        TinyDocumentImpl doc = (TinyDocumentImpl)builder.getCurrentRoot();
        builder.reset();
        return (Document)DocumentOverNodeInfo.wrap(doc);
    } catch (XPathException err) {
        throw new SAXException(err);
    }
}

```

```
/**
```

```

 * Parse the content of the given file as an XML document
 * and return a new DOM {@link Document} object.
 * An IllegalArgumentException is thrown if the
 * File is null null.
 *
 * 

This implementation differs from the parent implementation
 * by using a correct algorithm for filename-to-uri conversion.


 *
 * @param f The file containing the XML to parse.
 * @exception java.io.IOException If any IO errors occur.
 * @exception SAXException If any parse errors occur.
 * @return A new DOM Document object.
 */

```

```

public Document parse(File f) throws SAXException, IOException {
    if (f == null) {
        throw new IllegalArgumentException("File cannot be null");
    }
}

```

```

    String uri = f.toURI().toString();
    InputSource in = new InputSource(uri);
    return parse(in);
}

```

```
/**
```

```

 * Specify the {@link EntityResolver} to be used to resolve
 * entities present in the XML document to be parsed. Setting
 * this to null will result in the underlying
 * implementation using the EntityResolver registered with the
 * XMLReader contained in the InputSource.
 *
 * @param er The EntityResolver to be used to resolve entities
 * present in the XML document to be parsed.
 */

```

```

public void setEntityResolver(EntityResolver er) {
    entityResolver = er;
}

```

```

}

/**
 * Specify the {@link ErrorHandler} to be used by the parser.
 * Setting this to null will result in the underlying
 * implementation using the ErrorHandler registered with the
 * XMLReader contained in the InputSource.
 *
 * @param eh The ErrorHandler to be used by the parser.
 */

public void setErrorHandler(ErrorHandler eh) {
    errorHandler = eh;
}

/**
 * Obtain an instance of a {@link DOMImplementation} object.
 *
 * @return A new instance of a DOMImplementation.
 */

public DOMImplementation getDOMImplementation() {
    return newDocument().getImplementation();
}

/**
 * <p>Set state of XInclude processing.</p>
 * <p/>
 * <p>If XInclude markup is found in the document instance, should it be
 * processed as specified in <a href="http://www.w3.org/TR/xinclude/">
 * XML Inclusions (XInclude) Version 1.0</a>.</p>
 * <p/>
 * <p>XInclude processing defaults to false.</p>
 *
 * @param state Set XInclude processing to true or
 * <code>>false</code>
 */

public void setXIncludeAware(boolean state) {
    xIncludeAware = state;
}

/**
 * <p>Get the XInclude processing mode for this parser.</p>
 *
 * @return the return value of
 * the {@link javax.xml.parsers.DocumentBuilderFactory#isXIncludeAware()}

```

```

*   when this parser was created from factory.
*   @throws UnsupportedOperationException For backward compatibility, when implementations for
*   earlier versions of JAXP is used, this exception will be
*   thrown.
*   @see javax.xml.parsers.DocumentBuilderFactory#setXIncludeAware(boolean)
*   @since JAXP 1.5, Saxon 8.9
*/
public boolean isXIncludeAware() {
    return xIncludeAware;
}

/**
 * Set the space-stripping action to be applied to the source document
 * @param stripAction one of { @link net.sf.saxon.value.Whitespace#IGNORABLE},
 * { @link net.sf.saxon.value.Whitespace#ALL}, or { @link net.sf.saxon.value.Whitespace#NONE}
 * @since 8.9
 */

public void setStripSpace(int stripAction) {
    stripSpace = stripAction;
}

/**
 * Get the space-stripping action to be applied to the source document
 * @return one of { @link net.sf.saxon.value.Whitespace#IGNORABLE},
 * { @link net.sf.saxon.value.Whitespace#ALL}, or { @link net.sf.saxon.value.Whitespace#NONE}
 * @since 8.9
 */

public int getStripSpace() {
    return stripSpace;
}

}

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```

```

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//
package net.sf.saxon.om;

/**
 * An implementation of the NamespaceDeclarations interface,
 * based on encapsulating an array of namespace codes.
 */

public class NamespaceDeclarationsImpl implements NamespaceDeclarations {

    private NamePool namePool;
    private int[] namespaceCodes;
    private int used;

    private static final int[] emptyArray = new int[0];

    /**
     * Create an uninitialized instance
     */

    public NamespaceDeclarationsImpl() { }

    /**
     * Construct a set of namespace declarations
     * @param pool the name pool
     * @param codes an integer array holding the namespace codes. These
     * codes are allocated by the name pool, and can be used to look up
     * a prefix and uri in the name pool. If the array contains the integer
     * -1, this acts as a terminator for the list. This is the format
     * returned by the method { @link NodeInfo#getDeclaredNamespaces(int[])}.
     * A value of null is equivalent to supplying an empty array.
     */

    public NamespaceDeclarationsImpl(NamePool pool, int[] codes) {
        namePool = pool;
        setNamespaceCodes(codes);
    }

    /**
     * Set the name pool
     * @param pool the NamePool
     */

    public void setNamePool(NamePool pool) {

```

```

    namePool = pool;
}

/**
 * Set the namespace codes.
 * @param codes an integer array holding the namespace codes. These
 * codes are allocated by the name pool, and can be used to look up
 * a prefix and uri in the name pool. If the array contains the integer
 * -1, this acts as a terminator for the list. This is the format
 * returned by the method {@link NodeInfo#getDeclaredNamespaces(int[])}.
 * A value of null is equivalent to supplying an empty array.
 */

public void setNamespaceCodes(int[] codes) {
    if (codes == null) {
        codes = emptyArray;
    }
    namespaceCodes = codes;
    used = codes.length;
    for (int i=0; i<codes.length; i++) {
        if (codes[i] == -1) {
            used = i;
            break;
        }
    }
}

/**
 * Get all the namespace codes, as an array.
 *
 * @param buffer a sacrificial array that the method is free to use to contain the result.
 * May be null.
 * @return an integer array containing namespace codes. The array may be filled completely
 * with namespace codes, or it may be incompletely filled, in which case a -1 integer acts
 * as a terminator.
 */

public int[] getNamespaceCodes(int[] buffer) {
    return namespaceCodes;
}

/**
 * Get the number of declarations (and undeclarations) in this list.
 */

public int getNumberOfNamespaces() {
    return used;
}

```



```

/**
 * Get the prefix of the n'th declaration (or undeclaration) in the list,
 * counting from zero.
 *
 * @param index the index identifying which declaration is required.
 * @return the namespace prefix. For a declaration or undeclaration of the
 *         default namespace, this is the zero-length string.
 * @throws IndexOutOfBoundsException if the index is out of range.
 */

public String getPrefix(int index) {
    return namePool.getPrefixFromNamespaceCode(namespaceCodes[index]);
}

/**
 * Get the namespace URI of the n'th declaration (or undeclaration) in the list,
 * counting from zero.
 *
 * @param index the index identifying which declaration is required.
 * @return the namespace URI. For a namespace undeclaration, this is the
 *         zero-length string.
 * @throws IndexOutOfBoundsException if the index is out of range.
 */

public String getURI(int index) {
    return namePool.getURIFromNamespaceCode(namespaceCodes[index]);
}

/**
 * Get the n'th declaration in the list in the form of a namespace code. Namespace
 * codes can be translated into a prefix and URI by means of methods in the
 * NamePool
 *
 * @param index the index identifying which declaration is required.
 * @return the namespace code. This is an integer whose upper half indicates
 *         the prefix (0 represents the default namespace), and whose lower half indicates
 *         the URI (0 represents an undeclaration).
 * @throws IndexOutOfBoundsException if the index is out of range.
 * @see NamePool#getPrefixFromNamespaceCode(int)
 * @see NamePool#getURIFromNamespaceCode(int)
 */

public int getNamespaceCode(int index) {
    return namespaceCodes[index];
}
}

```

```

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//
package net.sf.saxon.om;

import net.sf.saxon.Configuration;
import net.sf.saxon.event.LocationProvider;
import org.xml.sax.Attributes;

/**
 * AttributeCollectionImpl is an implementation of both the SAX2 interface Attributes
 * and the Saxon equivalent AttributeCollection.
 *
 * <p>As well as providing the information required by the SAX2 interface, an
 * AttributeCollection can hold type information (as needed to support the JAXP 1.3
 * { @link javax.xml.validation.ValidatorHandler } interface), and location information
 * for debugging. The location information is used in the case of attributes on a result
 * tree to identify the location in the query or stylesheet from which they were
 * generated.
 */

public final class AttributeCollectionImpl implements Attributes, AttributeCollection {

    // Attribute values are maintained as an array of Strings. Everything else is maintained
    // in the form of integers.

    private Configuration config;
    private LocationProvider locationProvider;
    private String[] values = null;
    private int[] codes = null;
    private int used = 0;

```

```

// Empty attribute collection. The caller is trusted not to try and modify it.

public static final AttributeCollection EMPTY_ATTRIBUTE_COLLECTION =
    new AttributeCollectionImpl(null);

// Layout of the integer array. There are RECSIZE integers for each attribute.

private static final int RECSIZE = 4;

//private static final int NAMECODE = 0;
private static final int TYPECODE = 1;
private static final int LOCATIONID = 2;
private static final int PROPERTIES = 3;

/**
 * Create an empty attribute list.
 * @param config the Saxon Configuration
 */

public AttributeCollectionImpl(Configuration config) {
    this.config = config;
    used = 0;
}

/**
 * Set the location provider. This must be set if the methods getSystemId() and getLineNumber()
 * are to be used to get location information for an attribute.
 * @param provider the location provider
 */

public void setLocationProvider(LocationProvider provider) {
    locationProvider = provider;
}

/**
 * Add an attribute to an attribute list. The parameters correspond
 * to the parameters of the {@link net.sf.saxon.event.Receiver#attribute(int,int,CharSequence,int,int)}
 * method. There is no check that the name of the attribute is distinct from other attributes
 * already in the collection: this check must be made by the caller.
 *
 * @param nameCode Integer representing the attribute name.
 * @param typeCode The attribute type code
 * @param value The attribute value (must not be null)
 * @param locationId Identifies the attribtue location.
 * @param properties Attribute properties
 */

public void addAttribute(int nameCode, int typeCode, String value, long locationId, int properties) {

```

```

if (values == null) {
    values = new String[5];
    codes = new int[5 * RECSIZE];
    used = 0;
}
if (values.length == used) {
    int newsize = (used == 0 ? 5 : used * 2);
    String[] v2 = new String[newsize];
    int[] c2 = new int[newsize * RECSIZE];
    System.arraycopy(values, 0, v2, 0, used);
    System.arraycopy(codes, 0, c2, 0, used*RECSIZE);
    values = v2;
    codes = c2;
}
int n = used*RECSIZE;
codes[n] = nameCode;
codes[n+TYPECODE] = typeCode;
codes[n+LOCATIONID] = (int)locationId;
codes[n+PROPERTIES] = properties;
values[used++] = value;
}

/**
 * Set (overwrite) an attribute in the attribute list. The parameters correspond
 * to the parameters of the { @link net.sf.saxon.event.Receiver#attribute(int,int,CharSequence,int,int) }
 * method.
 * @param index Identifies the entry to be replaced
 * @param nameCode Integer representing the attribute name.
 * @param typeCode The attribute type code
 * @param value The attribute value (must not be null)
 * @param locationId Identifies the attribtue location.
 * @param properties Attribute properties
 */

public void setAttribute(int index, int nameCode, int typeCode, String value, long locationId, int properties) {
    int n = index*RECSIZE;
    codes[n] = nameCode;
    codes[n+TYPECODE] = typeCode;
    codes[n+LOCATIONID] = (int)locationId;
    codes[n+PROPERTIES] = properties;
    values[index] = value;
}

/**
 * Clear the attribute list. This removes the values but doesn't free the memory used.
 * free the memory, use clear() then compact().
 */

```

```

public void clear() {
    used = 0;
}

/**
 * Compact the attribute list to avoid wasting memory
 */

public void compact() {
    if (used == 0) {
        codes = null;
        values = null;
    } else if (values.length > used) {
        String[] v2 = new String[used];
        int[] c2 = new int[used * RECSIZE];
        System.arraycopy(values, 0, v2, 0, used);
        System.arraycopy(codes, 0, c2, 0, used*RECSIZE);
        values = v2;
        codes = c2;
    }
}

/**
 * Return the number of attributes in the list.
 *
 * @return The number of attributes in the list.
 */

public int getLength() {
    return (values == null ? 0 : used);
}

/**
 * Get the namecode of an attribute (by position).
 *
 * @param index The position of the attribute in the list.
 * @return The display name of the attribute as a string, or null if there
 *         is no attribute at that position.
 */

public int getNameCode(int index) {
    if (codes == null) {
        return -1;
    }
    if (index < 0 || index >= used) {
        return -1;
    }
}

```

```

    return codes[(index * RECSIZE)];
}

/**
 * Get the namecode of an attribute (by position).
 *
 * @param index The position of the attribute in the list.
 * @return The type annotation, as the fingerprint of the type name.
 * The bit { @link net.sf.saxon.om.NodeInfo#IS_DTD_TYPE } represents a DTD-derived type.
 */

public int getTypeAnnotation(int index) {
    if (codes == null) {
        return StandardNames.XS_UNTYPED_ATOMIC;
    }
    if (index < 0 || index >= used) {
        return StandardNames.XS_UNTYPED_ATOMIC;
    }

    return codes[index * RECSIZE + TYPECODE];
}

/**
 * Get the locationID of an attribute (by position)
 * @param index The position of the attribute in the list.
 * @return The location identifier of the attribute. This can be supplied
 * to a { @link net.sf.saxon.event.LocationProvider } in order to obtain the
 * actual system identifier and line number of the relevant location
 */

public int getLocationId(int index) {
    if (codes == null) {
        return -1;
    }
    if (index < 0 || index >= used) {
        return -1;
    }

    return codes[index * RECSIZE + LOCATIONID];
}

/**
 * Get the systemId part of the location of an attribute, at a given index.
 *
 * <p>Attribute location information is not available from a SAX parser, so this method
 * is not useful for getting the location of an attribute in a source document. However,
 * in a Saxon result document, the location information represents the location in the

```

```

* stylesheet of the instruction used to generate this attribute, which is useful for
* debugging.</p>
* @param index the required attribute
* @return the systemId of the location of the attribute
*/

public String getSystemId(int index) {
    return locationProvider.getSystemId(getLocationId(index));
}

/**
* Get the line number part of the location of an attribute, at a given index.
*
* <p>Attribute location information is not available from a SAX parser, so this method
* is not useful for getting the location of an attribute in a source document. However,
* in a Saxon result document, the location information represents the location in the
* stylesheet of the instruction used to generate this attribute, which is useful for
* debugging.</p>
* @param index the required attribute
* @return the line number of the location of the attribute
*/

public int getLineNumber(int index) {
    return locationProvider.getLineNumber(getLocationId(index));
}

/**
* Get the properties of an attribute (by position)
* @param index The position of the attribute in the list.
* @return The properties of the attribute. This is a set
* of bit-settings defined in class {@link net.sf.saxon.event.ReceiverOptions}. The
* most interesting of these is {@link net.sf.saxon.event.ReceiverOptions#DEFAULTED_ATTRIBUTE},
* which indicates an attribute that was added to an element as a result of schema validation.
*/

public int getProperties(int index) {
    if (codes == null) {
        return -1;
    }
    if (index < 0 || index >= used) {
        return -1;
    }

    return codes[index * RECSIZE + PROPERTIES];
}

/**
* Get the prefix of the name of an attribute (by position).

```

```

*
* @param index The position of the attribute in the list.
* @return The prefix of the attribute name as a string, or null if there
*         is no attribute at that position. Returns "" for an attribute that
*         has no prefix.
*/

public String getPrefix(int index) {
    if (codes == null) {
        return null;
    }
    if (index < 0 || index >= used) {
        return null;
    }
    return config.getNamePool().getPrefix(getNameCode(index));
}

/**
 * Get the lexical QName of an attribute (by position).
 *
 * @param index The position of the attribute in the list.
 * @return The lexical QName of the attribute as a string, or null if there
 *         is no attribute at that position.
 */

public String getQName(int index) {
    if (codes == null) {
        return null;
    }
    if (index < 0 || index >= used) {
        return null;
    }
    return config.getNamePool().getDisplayName(getNameCode(index));
}

/**
 * Get the local name of an attribute (by position).
 *
 * @param index The position of the attribute in the list.
 * @return The local name of the attribute as a string, or null if there
 *         is no attribute at that position.
 */

public String getLocalName(int index) {
    if (codes == null) {
        return null;
    }
    if (index < 0 || index >= used) {

```



```

        return null;
    }
    return config.getNamePool().getLocalName(getNameCode(index));
}

```

```
/**
```

```

* Get the namespace URI of an attribute (by position).
*
* @param index The position of the attribute in the list.
* @return The local name of the attribute as a string, or null if there
*         is no attribute at that position.
*/

```

```

public String getURI(int index) {
    if (codes == null) {
        return null;
    }
    if (index < 0 || index >= used) {
        return null;
    }
    return config.getNamePool().getURI(getNameCode(index));
}

```

```
/**
```

```

* Get the type of an attribute (by position). This is a SAX2 method,
* so it gets the type name as a DTD attribute type, mapped from the
* schema type code.
*
* @param index The position of the attribute in the list.
* @return The attribute type as a string ("NMTOKEN" for an
*         enumeration, and "CDATA" if no declaration was
*         read), or null if there is no attribute at
*         that position.
*/

```

```

public String getType(int index) {
    int typeCode = getTypeAnnotation(index) & NamePool.FP_MASK;
    switch (typeCode) {
        case StandardNames.XS_ID: return "ID";
        case StandardNames.XS_IDREF: return "IDREF";
        case StandardNames.XS_NMTOKEN: return "NMTOKEN";
        case StandardNames.XS_ENTITY: return "ENTITY";
        case StandardNames.XS_IDREFS: return "IDREFS";
        case StandardNames.XS_NMTOKENS: return "NMTOKENS";
        case StandardNames.XS_ENTITIES: return "ENTITIES";
        default: return "CDATA";
    }
}

```

```

}

/**
 * Get the type of an attribute (by name).
 *
 * @param uri    The namespace uri of the attribute.
 * @param localname The local name of the attribute.
 * @return The index position of the attribute
 */

public String getType(String uri, String localname) {
    int index = findByName(uri, localname);
    return (index < 0 ? null : getType(index));
}

/**
 * Get the value of an attribute (by position).
 *
 * @param index The position of the attribute in the list.
 * @return The attribute value as a string, or null if
 *         there is no attribute at that position.
 */

public String getValue(int index) {
    if (values == null) {
        return null;
    }
    if (index < 0 || index >= used) {
        return null;
    }
    return values[index];
}

/**
 * Get the value of an attribute (by name).
 *
 * @param uri    The namespace uri of the attribute.
 * @param localname The local name of the attribute.
 * @return The index position of the attribute
 */

public String getValue(String uri, String localname) {
    int index = findByName(uri, localname);
    return (index < 0 ? null : getValue(index));
}

/**
 * Get the attribute value using its fingerprint

```

```

*/

public String getValueByFingerprint(int fingerprint) {
    int index = findByFingerprint(fingerprint);
    return (index < 0 ? null : getValue(index));
}

/**
 * Get the index of an attribute, from its lexical QName
 *
 * @param qname The lexical QName of the attribute. The prefix must match.
 * @return The index position of the attribute
 */

public int getIndex(String qname) {
    if (codes == null) {
        return -1;
    }
    if (qname.indexOf('.') < 0) {
        return findByname("", qname);
    }
    // Searching using prefix+localname is not recommended, but SAX allows it...
    String[] parts;
    try {
        parts = Name11Checker.getInstance().getQNameParts(qname);
    } catch (QNameException err) {
        return -1;
    }
    String prefix = parts[0];
    if (prefix.length() == 0) {
        return findByname("", qname);
    } else {
        String localName = parts[1];
        for (int i = 0; i < used; i++) {
            String lname = config.getNamePool().getLocalName(getNameCode(i));
            String ppref = config.getNamePool().getPrefix(getNameCode(i));
            if (localName.equals(lname) && prefix.equals(ppref)) {
                return i;
            }
        }
        return -1;
    }
}

/**
 * Get the index of an attribute (by name).
 *
 * @param uri The namespace uri of the attribute.

```

```

* @param localname The local name of the attribute.
* @return The index position of the attribute
*/

public int getIndex(String uri, String localname) {
    return findByName(uri, localname);
}

/**
* Get the index, given the fingerprint.
* Return -1 if not found.
*/

public int getIndexByFingerprint(int fingerprint) {
    return findByFingerprint(fingerprint);
}

/**
* Get the type of an attribute (by lexical QName).
*
* @param name The lexical QName of the attribute.
* @return The attribute type as a string (e.g. "NMTOKEN", or
* "CDATA" if no declaration was read).
*/

public String getType(String name) {
    int index = getIndex(name);
    return getType(index);
}

/**
* Get the value of an attribute (by lexical QName).
*
* @param name The attribute name (a lexical QName).
* The prefix must match the prefix originally used. This method is defined in SAX, but is
* not recommended except where the prefix is null.
*/

public String getValue(String name) {
    int index = getIndex(name);
    return getValue(index);
}

/**
* Find an attribute by expanded name
* @param uri the namespace uri
* @param localName the local name

```

```

* @return the index of the attribute, or -1 if absent
*/

private int findByName(String uri, String localName) {
    if (config == null) {
        return -1; // indicates an empty attribute set
    }
    NamePool namePool = config.getNamePool();
    int f = namePool.getFingerprint(uri, localName);
    if (f == -1) {
        return -1;
    }
    return findByFingerprint(f);
}

/**
 * Find an attribute by fingerprint
 * @param fingerprint the fingerprint representing the name of the required attribute
 * @return the index of the attribute, or -1 if absent
 */

private int findByFingerprint(int fingerprint) {
    if (codes == null) {
        return -1;
    }
    for (int i = 0; i < used; i++) {
        if (fingerprint == (codes[(i * RECSIZE)] & NamePool.FP_MASK)) {
            return i;
        }
    }
    return -1;
}

/**
 * Determine whether a given attribute has the is-ID property set
 */

public boolean isId(int index) {
    return (codes[index * RECSIZE] & NamePool.FP_MASK) == StandardNames.XML_ID
        || config.getTypeHierarchy().isIdCode(getTypeAnnotation(index));
    // return getType(index).equals("ID") ||
//      ((getNameCode(index) & NamePool.FP_MASK) == StandardNames.XML_ID);
}

/**
 * Determine whether a given attribute has the is-idref property set
 */

```

```

public boolean isIdref(int index) {
    return config.getTypeHierarchy().isIdrefsCode(getTypeAnnotation(index));
}

/**
 * Delete the attribute with a given fingerprint
 * @param fingerprint The fingerprint of the attribute to be removed
 */

public void removeAttribute(int fingerprint) {
    int index = findByFingerprint(fingerprint);
    if (index == -1) {
        // no action
    } else if (index == used-1) {
        used--;
    } else {
        System.arraycopy(values, index+1, values, index, used-index-1);
        System.arraycopy(codes, (index+1)*RECSIZE, codes, index*RECSIZE, (used-index-1)*RECSIZE);
        used--;
    }
}

/**
 * Rename an attribute
 * @param oldName the namecode of the existing name
 * @param newName the namecode of the new name
 */

public void renameAttribute(int oldName, int newName) {
    int index = findByFingerprint(oldName & NamePool.FP_MASK);
    if (index == -1) {
        // no action
    } else {
        codes[index*RECSIZE] = newName;
    }
}

/**
 * Replace the value of an attribute
 * @param nameCode the name code of the attribute name
 * @param newValue the new string value of the attribute
 */

public void replaceAttribute(int nameCode, CharSequence newValue) {
    int index = findByFingerprint(nameCode & NamePool.FP_MASK);
    if (index == -1) {
        // no action
    } else {

```

```

        values[index] = newValue.toString();
    }
}

/**
 * Set the type annotation of an attribute
 * @param nameCode the name code of the attribute name
 * @param typeCode the new type code for the attribute
 */

public void setTypeAnnotation(int nameCode, int typeCode) {
    int index = findByFingerprint(nameCode & NamePool.FP_MASK);
    if (index == -1) {
        // no action
    } else {
        codes[index*RECSIZE + TYPECODE] = typeCode;
    }
}

}

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//
package net.sf.saxon.om;

import net.sf.saxon.pattern.NodeTest;
import net.sf.saxon.value.Value;
import net.sf.saxon.trans.XPathException;

/**
 * A SequenceIterator is used to iterate over a sequence. An AxisIterator

```

```

* is a SequenceIterator that always iterates over a set of nodes, and that
* throws no exceptions; it also supports the ability
* to find the last() position, again with no exceptions.
* This class is an abstract implementation of AxisIterator that is used
* as a base class for many concrete implementations. The main functionality
* that it provides is maintaining the current position.
*/

```

```

public abstract class AxisIteratorImpl implements AxisIterator {

    protected int position = 0;
    protected NodeInfo current;

    /**
     * Move to the next node, without returning it. Returns true if there is
     * a next node, false if the end of the sequence has been reached. After
     * calling this method, the current node may be retrieved using the
     * current() function.
     */

    public boolean moveNext() {
        return (next() != null);
    }

    /**
     * Get the current node in the sequence.
     * @return the node returned by the most recent call on next()
     */

    public Item current() {
        return current;
    }

    /**
     * Get the current position
     * @return the position of the most recent node returned by next()
     */

    public final int position() {
        return position;
    }

    public void close() {
    }

    /**
     * Return an iterator over an axis, starting at the current node.
     */
}

```



```

* @param axis the axis to iterate over, using a constant such as
*     { @link Axis#CHILD}
* @param test a predicate to apply to the nodes before returning them.
*/

public AxisIterator iterateAxis(byte axis, NodeTest test) {
    return current.iterateAxis(axis, test);
}

/**
* Return the atomized value of the current node.
*
* @return the atomized value.
* @throws NullPointerException if there is no current node
*/

public Value atomize() throws XPathException {
    return current.atomize();
}

/**
* Return the string value of the current node.
*
* @return the string value, as an instance of CharSequence.
* @throws NullPointerException if there is no current node
*/

public CharSequence getStringValue() {
    return current.getStringValueCS();
}

/**
* Get properties of this iterator, as a bit-significant integer.
*
* @return the properties of this iterator. This will be some combination of
*     properties such as { @link #GROUNDED}, { @link #LAST_POSITION_FINDER},
*     and { @link #LOOKAHEAD}. It is always
*     acceptable to return the value zero, indicating that there are no known special properties.
*     It is acceptable for the properties of the iterator to change depending on its state.
*/

public int getProperties() {
    return 0;
}
}

```

```

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//
package net.sf.saxon;
import net.sf.saxon.event.Builder;
import net.sf.saxon.event.Receiver;
import net.sf.saxon.event.ReceivingContentHandler;
import net.sf.saxon.om.DocumentInfo;
import net.sf.saxon.om.Validation;
import net.sf.saxon.trans.XPathException;
import net.sf.saxon.value.Whitespace;
import org.xml.sax.SAXException;

import javax.xml.transform.Result;
import javax.xml.transform.Transformer;
import javax.xml.transform.TransformerException;
import javax.xml.transform.sax.TransformerHandler;

/**
 * <b>TransformerHandlerImpl</b> implements the javax.xml.transform.sax.TransformerHandler
 * interface. It acts as a ContentHandler and LexicalHandler which receives a stream of
 * SAX events representing an input document, and performs a transformation treating this
 * SAX stream as the source document of the transformation.
 * @author Michael H. Kay
 */

public class TransformerHandlerImpl extends ReceivingContentHandler implements TransformerHandler {

    Controller controller;
    Builder builder;
    Receiver receiver;
    Result result;

```

```

String systemId;
boolean started = false;

/**
 * Create a TransformerHandlerImpl and initialise variables. The constructor is protected, because
 * the Filter should be created using newTransformerHandler() in the SAXTransformerFactory
 * class
 * @param controller the Controller to be used
 */

protected TransformerHandlerImpl(Controller controller) {
    this.controller = controller;
    Configuration config = controller.getConfiguration();
    int validation = config.getSchemaValidationMode();
    builder = controller.makeBuilder();
    setPipelineConfiguration(builder.getPipelineConfiguration());
    receiver = controller.makeStripper(builder);
    if (controller.getExecutable().stripsInputTypeAnnotations()) {
        receiver = controller.getConfiguration().getAnnotationStripper(receiver);
    }
    int val = validation & Validation.VALIDATION_MODE_MASK;
    if (val != Validation.PRESERVE) {
        receiver = config.getDocumentValidator(
            receiver, getSystemId(), val, Whitespace.NONE, null, -1);
    }
    setReceiver(receiver);
}

/**
 * Start of a new document. The TransformerHandler is not serially reusable, so this method
 * must only be called once.
 * @throws SAXException only if an overriding subclass throws this exception
 * @throws UnsupportedOperationException if an attempt is made to reuse the TransformerHandler by calling
 * startDocument() more than once.
 */

public void startDocument () throws SAXException {
    if (started) {
        throw new UnsupportedOperationException(
            "The TransformerHandler is not serially reusable. The startDocument() method must be called once
only.");
    }
    started = true;
    super.startDocument();
}

/**
 * Get the Transformer used for this transformation

```

```

*/

public Transformer getTransformer() {
    return controller;
}

/**
 * Set the SystemId of the document. Note that in reporting location information, Saxon gives
 * priority to the system Id reported by the SAX Parser in the Locator passed to the
 * {@link #setDocumentLocator(org.xml.sax.Locator)} method. The SystemId passed to this method
 * is used as the base URI for resolving relative references.
 * @param url the systemId of the source document
 */

public void setSystemId(String url) {
    systemId = url;
    receiver.setSystemId(url);
}

/**
 * Get the systemId of the document. This will be the systemId obtained from the Locator passed to the
 * {@link #setDocumentLocator(org.xml.sax.Locator)} method if available, otherwise the SystemId passed
 * to the {@link #setSystemId(String)} method.
 */

public String getSystemId() {
    return systemId;
//    String s = super.getSystemId();
//    return (s == null ? systemId : s);
}

/**
 * Set the output destination of the transformation
 */

public void setResult(Result result) {
    if (result==null) {
        throw new IllegalArgumentException("Result must not be null");
    }
    this.result = result;
}

/**
 * Get the output destination of the transformation
 * @return the output destination
 */

```

```

public Result getResult() {
    return result;
}

/**
 * Override the behaviour of endDocument() in ReceivingContentHandler, so that it fires off
 * the transformation of the constructed document
 */

public void endDocument() throws SAXException {
    super.endDocument();
    DocumentInfo doc = (DocumentInfo)builder.getCurrentRoot();
    builder.reset();
    if (doc==null) {
        throw new SAXException("No source document has been built");
    }

    try {
        controller.transformDocument(doc, result);
    } catch (TransformerException err) {
        if (err instanceof XPathException) {
            controller.reportFatalError((XPathException)err);
        }
        throw new SAXException(err);
    }
}

// public static void main(String[] args) throws Exception {
//     // test case for a TransformerHandler that validates the source document
//     TransformerFactory tfactory = new SchemaAwareTransformerFactory();
//     tfactory.setAttribute(FeatureKeys.SCHEMA_VALIDATION, new Integer(Validation.STRICT));
//     // Does this factory support SAX features?
//     if (tfactory.getFeature(SAXSource.FEATURE)) {
//         //
//         // If so, we can safely cast.
//         SAXTransformerFactory stfactory =
//             ((SAXTransformerFactory) tfactory);
//         //
//         // A TransformerHandler is a ContentHandler that will listen for
//         // SAX events, and transform them to the result.
//         TransformerHandler handler =
//             stfactory.newTransformerHandler(new StreamSource(new File("c:/MyJava/samples/styles/books.xml")));
//         //
//         // Set the result handling to be a serialization to System.out.
//         Result result = new StreamResult(System.out);
//         //

```

```

//      handler.setResult(result);
//
//      // Create a reader, and set it's content handler to be the TransformerHandler.
//      SAXParserFactory factory = SAXParserFactory.newInstance();
//      factory.setNamespaceAware(true);
//      XMLReader reader = factory.newSAXParser().getXMLReader();
//
//      reader.setContentHandler(handler);
//
//      // It's a good idea for the parser to send lexical events.
//      // The TransformerHandler is also a LexicalHandler.
//      reader.setProperty(
//          "http://xml.org/sax/properties/lexical-handler", handler);
//
//      // Parse the source XML, and send the parse events to the TransformerHandler.
//      handler.setSystemId("file:///MyJava/samples/data/books.xml");
//      reader.parse("file:///MyJava/samples/data/books.xml");
//      } else {
//          System.out.println(
//              "Can't do exampleContentHandlerToContentHandler because tfactory is not a
SAXTransformerFactory");
//      }
//  }
}

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//
package net.sf.saxon.instruct;
import net.sf.saxon.Controller;
import net.sf.saxon.expr.*;
import net.sf.saxon.om.NamespaceResolver;

```

```

import net.sf.saxon.om.QNameException;
import net.sf.saxon.om.StandardNames;
import net.sf.saxon.om.StructuredQName;
import net.sf.saxon.trace.ExpressionPresenter;
import net.sf.saxon.trans.XPathException;
import net.sf.saxon.type.AnyItemType;
import net.sf.saxon.type.ItemType;
import net.sf.saxon.type.TypeHierarchy;

import java.util.ArrayList;
import java.util.Arrays;
import java.util.Iterator;

/**
 * Instruction representing an xsl:call-template element in the stylesheet.
 */

public class CallTemplate extends Instruction {

    private Template template = null;
    private WithParam[] actualParams = null;
    private WithParam[] tunnelParams = null;
    private boolean useTailRecursion = false;
    private Expression calledTemplateExpression; // allows name to be an AVT
    private NamespaceResolver nsContext; // needed only for a dynamic call

    /**
     * Construct a CallTemplate instruction.
     * @param template the Template object identifying the template to be called, in the normal
     * case where this is known statically
     * @param useTailRecursion true if the call is potentially tail recursive
     * @param calledTemplateExpression expression to calculate the name of the template to be called
     * at run-time, this supports the saxon:allow-avt option
     * @param nsContext the static namespace context of the instruction, needed only in the case
     * where the name of the called template is to be calculated dynamically
     */

    public CallTemplate ( Template template,
                        boolean useTailRecursion,
                        Expression calledTemplateExpression,
                        NamespaceResolver nsContext ) {

        this.template = template;
        this.useTailRecursion = useTailRecursion;
        this.calledTemplateExpression = calledTemplateExpression;
        this.nsContext = nsContext;
        adoptChildExpression(calledTemplateExpression);
    }
}

```

```

/**
 * Set the actual parameters on the call
 * @param actualParams the parameters that are not tunnel parameters
 * @param tunnelParams the tunnel parameters
 */

public void setActualParameters(
    WithParam[] actualParams,
    WithParam[] tunnelParams ) {
    this.actualParams = actualParams;
    this.tunnelParams = tunnelParams;
    for (int i=0; i<actualParams.length; i++) {
        adoptChildExpression(actualParams[i]);
    }
    for (int i=0; i<tunnelParams.length; i++) {
        adoptChildExpression(tunnelParams[i]);
    }
}

/**
 * Return the name of this instruction.
 */

public int getInstructionNameCode() {
    return StandardNames.XSL_CALL_TEMPLATE;
}

/**
 * Set additional trace properties appropriate to the kind of instruction. This
 * implementation adds the template property, which identifies the template to be called
 */

// public InstructionInfo getInstructionInfo() {
//     InstructionDetails details = (InstructionDetails)super.getInstructionInfo();
//     if (template != null) {
//         details.setProperty("template", template);
//     }
//     return details;
// }

/**
 * Simplify an expression. This performs any static optimization (by rewriting the expression
 * as a different expression).
 *
 * @exception XPathException if an error is discovered during expression
 *     rewriting
 * @return the simplified expression

```



```

* @param visitor an expression visitor
*/

public Expression simplify(ExpressionVisitor visitor) throws XPathException {
    WithParam.simplify(actualParams, visitor);
    WithParam.simplify(tunnelParams, visitor);
    if (calledTemplateExpression != null) {
        calledTemplateExpression = visitor.simplify(calledTemplateExpression);
    }
    return this;
}

public Expression typeCheck(ExpressionVisitor visitor, ItemType contextItemType) throws XPathException {
    WithParam.typeCheck(actualParams, visitor, contextItemType);
    WithParam.typeCheck(tunnelParams, visitor, contextItemType);
    if (calledTemplateExpression != null) {
        calledTemplateExpression = visitor.typeCheck(calledTemplateExpression, contextItemType);
        adoptChildExpression(calledTemplateExpression);
    }
    return this;
}

public Expression optimize(ExpressionVisitor visitor, ItemType contextItemType) throws XPathException {
    WithParam.optimize(visitor, actualParams, contextItemType);
    WithParam.optimize(visitor, tunnelParams, contextItemType);
    if (calledTemplateExpression != null) {
        calledTemplateExpression = visitor.optimize(calledTemplateExpression, contextItemType);
        adoptChildExpression(calledTemplateExpression);
    }
    return this;
}

/**
 * Get the cardinality of the sequence returned by evaluating this instruction
 *
 * @return the static cardinality
 */

public int computeCardinality() {
    if (template == null) {
        return StaticProperty.ALLOWS_ZERO_OR_MORE;
    } else {
        return template.getRequiredType().getCardinality();
    }
}

/**

```

```

* Get the item type of the items returned by evaluating this instruction
*
* @param th the type hierarchy cache
* @return the static item type of the instruction
*/

public ItemType getItemType(TypeHierarchy th) {
    if (template == null) {
        return AnyItemType.getInstance();
    } else {
        return template.getRequiredType().getPrimaryType();
    }
}

/**
* Copy an expression. This makes a deep copy.
*
* @return the copy of the original expression
*/

public Expression copy() {
    throw new UnsupportedOperationException("copy");
}

public int getIntrinsicDependencies() {
    // we could go to the called template and find which parts of the context it depends on, but this
    // would create the risk of infinite recursion. So we just assume that the dependencies exist
    return StaticProperty.DEPENDS_ON_XSLT_CONTEXT |
        StaticProperty.DEPENDS_ON_FOCUS;
}

/**
* Determine whether this instruction creates new nodes.
* This implementation currently returns true unconditionally.
*/

public final boolean createsNewNodes() {
    return true;
}

/**
* Get all the XPath expressions associated with this instruction
* (in XSLT terms, the expression present on attributes of the instruction,
* as distinct from the child instructions in a sequence construction)
*/

public Iterator iterateSubExpressions() {
    ArrayList list = new ArrayList(10);

```

```

    if (calledTemplateExpression != null) {
        list.add(calledTemplateExpression);
    }
    WithParam.getXPathExpressions(actualParams, list);
    WithParam.getXPathExpressions(tunnelParams, list);
    return list.iterator();
}

/**
 * Replace one subexpression by a replacement subexpression
 * @param original the original subexpression
 * @param replacement the replacement subexpression
 * @return true if the original subexpression is found
 */

public boolean replaceSubExpression(Expression original, Expression replacement) {
    boolean found = false;
    if (WithParam.replaceXPathExpression(actualParams, original, replacement)) {
        found = true;
    }
    if (WithParam.replaceXPathExpression(tunnelParams, original, replacement)) {
        found = true;
    }
    if (calledTemplateExpression == original) {
        calledTemplateExpression = replacement;
    }
    return found;
}

/**
 * Handle promotion offers, that is, non-local tree rewrites.
 * @param offer The type of rewrite being offered
 * @throws net.sf.saxon.trans.XPathException
 */

protected void promoteInst(PromotionOffer offer) throws XPathException {
    if (calledTemplateExpression != null) {
        calledTemplateExpression = doPromotion(calledTemplateExpression, offer);
    }
    WithParam.promoteParams(actualParams, offer);
    WithParam.promoteParams(tunnelParams, offer);
}

/**
 * Process this instruction, without leaving any tail calls.
 * @param context the dynamic context for this transformation
 * @throws XPathException if a dynamic error occurs

```

```

*/

public void process(XPathContext context) throws XPathException {

    Template t = getTargetTemplate(context);
    XPathContextMajor c2 = context.newContext();
    c2.setOrigin(this);
    c2.openStackFrame(t.getStackFrameMap());
    c2.setLocalParameters(assembleParams(context, actualParams));
    c2.setTunnelParameters(assembleTunnelParams(context, tunnelParams));

    try {
        TailCall tc = t.expand(c2);
        while (tc != null) {
            tc = tc.processLeavingTail();
        }
    } catch (StackOverflowError e) {
        XPathException err = new XPathException("Too many nested template or function calls. The stylesheet may
be looping.");
        err.setLocator(this);
        err.setXPathContext(context);
        throw err;
    }
}

/**
 * Process this instruction. If the called template contains a tail call (which may be
 * an xsl:call-template or xsl:apply-templates instruction) then the tail call will not
 * actually be evaluated, but will be returned in a TailCall object for the caller to execute.
 * @param context the dynamic context for this transformation
 * @return an object containing information about the tail call to be executed by the
 * caller. Returns null if there is no tail call.
 */

public TailCall processLeavingTail(XPathContext context) throws XPathException
{
    if (!useTailRecursion) {
        process(context);
        return null;
    }

    // if name is determined dynamically, determine it now

    Template target = getTargetTemplate(context);

    // handle parameters if any

    ParameterSet params = assembleParams(context, actualParams);

```

```

ParameterSet tunnels = assembleTunnelParams(context, tunnelParams);

// Call the named template. Actually, don't call it; rather construct a call package
// and return it to the caller, who will then process this package.

//System.err.println("Call template using tail recursion");
if (params==null) {           // bug 490967
    params = ParameterSet.EMPTY_PARAMETER_SET;
}

// clear all the local variables: they are no longer needed
Arrays.fill(context.getStackFrame().getStackFrameValues(), null);

return new CallTemplatePackage(target, params, tunnels, this, context);
}

/**
 * Get the template, in the case where it is specified dynamically.
 * @param context    The dynamic context of the transformation
 * @return          The template to be called
 * @throws XPathException if a dynamic error occurs: specifically, if the
 * template name is computed at run-time (Saxon extension) and the name is invalid
 * or does not reference a known template
 */

public Template getTargetTemplate(XPathContext context) throws XPathException {
    if (calledTemplateExpression != null) {
        Controller controller = context.getController();
        CharSequence qname = calledTemplateExpression.evaluateAsString(context);

        String prefix;
        String localName;
        try {
            String[] parts = controller.getConfiguration().getNameChecker().getQNameParts(qname);
            prefix = parts[0];
            localName = parts[1];
        } catch (QNameException err) {
            dynamicError("Invalid template name. " + err.getMessage(), "XTSE0650", context);
            return null;
        }
        String uri = nsContext.getURIForPrefix(prefix, false);
        if (uri==null) {
            dynamicError("Namespace prefix " + prefix + " has not been declared", "XTSE0650", context);
        }
        StructuredQName qName = new StructuredQName("", uri, localName);
        Template target = controller.getExecutable().getNamedTemplate(qName);
        if (target==null) {
            dynamicError("Template " + qname + " has not been defined", "XTSE0650", context);
        }
    }
}

```

```

    }
    return target;
} else {
    return template;
}
}

public StructuredQName getObjectQName() {
    return (template==null ? null : template.getTemplateName());
}

/**
 * Diagnostic print of expression structure. The abstract expression tree
 * is written to the supplied output destination.
 */

public void explain(ExpressionPresenter out) {
    out.startElement("callTemplate");
    if (template != null) {
        out.emitAttribute("name",
            (template.getTemplateName() == null ? "null" : template.getTemplateName().getDisplayname()));
    } else {
        out.startSubsidiaryElement("name");
        calledTemplateExpression.explain(out);
        out.endSubsidiaryElement();
    }
    if (actualParams != null && actualParams.length > 0) {
        out.startSubsidiaryElement("withParams");
        WithParam.displayExpressions(actualParams, out);
        out.endSubsidiaryElement();
    }
    if (tunnelParams != null && tunnelParams.length > 0) {
        out.startSubsidiaryElement("tunnelParams");
        WithParam.displayExpressions(tunnelParams, out);
        out.endSubsidiaryElement();
    }
    out.endElement();
}

/**
 * A CallTemplatePackage is an object that encapsulates the name of a template to be called,
 * the parameters to be supplied, and the execution context. This object can be returned as a tail
 * call, so that the actual call is made from a lower point on the stack, allowing a tail-recursive
 * template to execute in a finite stack size
 */

```

```

public static class CallTemplatePackage implements TailCall {

    private Template target;
    private ParameterSet params;
    private ParameterSet tunnelParams;
    private Instruction instruction;
    private XPathContext evaluationContext;

    /**
     * Construct a CallTemplatePackage that contains information about a call.
     * @param template the Template to be called
     * @param params the parameters to be supplied to the called template
     * @param tunnelParams the tunnel parameter supplied to the called template
     * @param evaluationContext saved context information from the Controller (current mode, etc)
     * which must be reset to ensure that the template is called with all the context information
     * intact
     */

    public CallTemplatePackage(Template template,
                             ParameterSet params,
                             ParameterSet tunnelParams,
                             Instruction instruction,
                             XPathContext evaluationContext) {

        target = template;
        this.params = params;
        this.tunnelParams = tunnelParams;
        this.instruction = instruction;
        this.evaluationContext = evaluationContext;
    }

    /**
     * Process the template call encapsulated by this package.
     * @return another TailCall. This will never be the original call, but it may be the next
     * recursive call. For example, if A calls B which calls C which calls D, then B may return
     * a TailCall to A representing the call from B to C; when this is processed, the result may be
     * a TailCall representing the call from C to D.
     * @throws XPathException if a dynamic error occurs
     */

    public TailCall processLeavingTail() throws XPathException {
        // TODO: the idea of tail call optimization is to reuse the caller's stack frame rather than
        // creating a new one. We're doing this for the Java stack, but not for the context stack where
        // local variables are held. It should be possible to avoid creating a new context, and instead
        // to update the existing one in situ.
        XPathContextMajor c2 = evaluationContext.newContext();
        c2.setOrigin(instruction);
        c2.setLocalParameters(params);
        c2.setTunnelParameters(tunnelParams);
    }
}

```

```

        c2.openStackFrame(target.getStackFrameMap());

        // System.err.println("Tail call on template");

        return target.expand(c2);
    }
}

}

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// Contributor(s): none.
//
package net.sf.saxon.instruct;
import net.sf.saxon.Controller;
import net.sf.saxon.expr.*;
import net.sf.saxon.om.*;
import net.sf.saxon.trace.ExpressionPresenter;
import net.sf.saxon.trace.Location;
import net.sf.saxon.trace.TraceListener;
import net.sf.saxon.trans.Mode;
import net.sf.saxon.trans.Rule;
import net.sf.saxon.trans.SaxonErrorCode;
import net.sf.saxon.trans.XPathException;
import net.sf.saxon.type.ItemType;
import net.sf.saxon.type.Type;
import net.sf.saxon.value.Value;

import java.util.ArrayList;
import java.util.Iterator;

/**
 * An instruction representing an xsl:apply-templates element in the stylesheet
 */

```



```

public class ApplyTemplates extends Instruction {

    private Expression select;
    private WithParam[] actualParams = null;
    private WithParam[] tunnelParams = null;
    private boolean useCurrentMode = false;
    private boolean useTailRecursion = false;
    private Mode mode;
    private boolean backwardsCompatible;
    private boolean implicitSelect;

    /**
     * Construct an apply-templates instructino
     * @param select the select expression
     * @param useCurrentMode true if mode="#current" was specified
     * @param useTailRecursion true if this instruction is the last in its template
     * @param mode the mode specified on apply-templates
     * @param backwardsCompatible true if XSLT backwards compatibility is enabled
     * @param implicitSelect true if the select attribute was defaulted
     */

    public ApplyTemplates( Expression select,
                          boolean useCurrentMode,
                          boolean useTailRecursion,
                          Mode mode,
                          boolean backwardsCompatible,
                          boolean implicitSelect) {
        this.select = select;
        this.useCurrentMode = useCurrentMode;
        this.useTailRecursion = useTailRecursion;
        this.mode = mode;
        this.backwardsCompatible = backwardsCompatible;
        this.implicitSelect = implicitSelect;
        adoptChildExpression(select);
    }

    /**
     * Set the actual parameters on the call
     * @param actualParams represents the contained xsl:with-param elements having tunnel="no" (the default)
     * @param tunnelParams represents the contained xsl:with-param elements having tunnel="yes"
     */

    public void setActualParameters(
        WithParam[] actualParams,
        WithParam[] tunnelParams ) {
        this.actualParams = actualParams;
        this.tunnelParams = tunnelParams;
    }
}

```

```

}

/**
 * Get the name of this instruction for diagnostic and tracing purposes
 */

public int getInstructionNameCode() {
    return StandardNames.XSL_APPLY_TEMPLATES;
}

/**
 * Set additional trace properties appropriate to the kind of instruction. This
 * implementation adds the mode attribute
 */

// public InstructionInfo getInstructionInfo() {
//     InstructionDetails details = (InstructionDetails)super.getInstructionInfo();
//     details.setProperty("mode", mode);
//     return details;
// }

/**
 * Simplify an expression. This performs any static optimization (by rewriting the expression
 * as a different expression).
 *
 * @exception XPathException if an error is discovered during expression
 *     rewriting
 * @return the simplified expression
 * @param visitor the expression visitor
 */

public Expression simplify(ExpressionVisitor visitor) throws XPathException {
    WithParam.simplify(actualParams, visitor);
    WithParam.simplify(tunnelParams, visitor);
    select = visitor.simplify(select);
    return this;
}

public Expression typeCheck(ExpressionVisitor visitor, ItemType contextItemType) throws XPathException {
    WithParam.typeCheck(actualParams, visitor, contextItemType);
    WithParam.typeCheck(tunnelParams, visitor, contextItemType);
    try {
        select = visitor.typeCheck(select, contextItemType);
    } catch (XPathException e) {
        if (implicitSelect) {
            if ("XPTY0020".equals(e.getErrorCodeLocalPart())) {
                XPathException err = new XPathException("Cannot apply-templates to child nodes when the context
item is an atomic value");

```

```

        err.setErrorCode("XTTE0510");
        err.setIsTypeError(true);
        throw err;
    } else if ("XPDY0002".equals(e.getErrorCodeLocalPart())) {
        XPathException err = new XPathException("Cannot apply-templates to child nodes when the context
item is undefined");
        err.setErrorCode("XTTE0510");
        err.setIsTypeError(true);
        throw err;
    }
}
throw e;
}
adoptChildExpression(select);
if (Literal.isEmptySequence(select)) {
    return select;
}
return this;
}

```

```

public Expression optimize(ExpressionVisitor visitor, ItemType contextItemType) throws XPathException {
    WithParam.optimize(visitor, actualParams, contextItemType);
    WithParam.optimize(visitor, tunnelParams, contextItemType);
    select = visitor.typeCheck(select, contextItemType); // More info available second time around
    select = visitor.optimize(select, contextItemType);
    adoptChildExpression(select);
    if (Literal.isEmptySequence(select)) {
        return select;
    }
    return this;
}

```

```

/**
 * Copy an expression. This makes a deep copy.
 *
 * @return the copy of the original expression
 */

```

```

public Expression copy() {
    throw new UnsupportedOperationException("copy");
}

```

```

/**
 * Determine whether this instruction creates new nodes.
 * This implementation returns true (which is almost invariably the case, so it's not worth
 * doing any further analysis to find out more precisely).
 */

```

```

public final boolean createsNewNodes() {
    return true;
}

public void process(XPathContext context) throws XPathException {
    apply(context, false);
}

public TailCall processLeavingTail(XPathContext context) throws XPathException {
    return apply(context, useTailRecursion);
}

private TailCall apply(XPathContext context, boolean returnTailCall) throws XPathException {
    Mode thisMode = mode;
    if (useCurrentMode) {
        thisMode = context.getCurrentMode();
    }

    // handle parameters if any

    ParameterSet params = assembleParams(context, actualParams);
    ParameterSet tunnels = assembleTunnelParams(context, tunnelParams);

    if (returnTailCall) {
        XPathContextMajor c2 = context.newContext();
        c2.setOrigin(this);
        return new ApplyTemplatesPackage(
            ExpressionTool.lazyEvaluate(select, context, 1),
            thisMode, params, tunnels, c2, getLocationId());
    }

    // Get an iterator to iterate through the selected nodes in original order

    SequenceIterator iter = select.iterate(context);

    // Quick exit if the iterator is empty

    if (iter instanceof EmptyIterator) {
        return null;
    }

    // process the selected nodes now
    XPathContextMajor c2 = context.newContext();
    c2.setOrigin(this);
    try {
        TailCall tc = applyTemplates(iter, thisMode, params, tunnels, c2, backwardsCompatible, getLocationId());
        while (tc != null) {

```

```

        tc = tc.processLeavingTail();
    }
} catch (StackOverflowError e) {
    XPathException err = new XPathException("Too many nested apply-templates calls. The stylesheet may be
looping.");
    err.setErrorCode(SaxonErrorCode.SXLM0001);
    err.setLocator(this);
    err.setXPathContext(context);
    throw err;
}
return null;
}

```

```
/**
```

```

* Process selected nodes using the handlers registered for a particular
* mode.
*
* @exception XPathException if any dynamic error occurs
* @param iterator an Iterator over the nodes to be processed, in the
* correct (sorted) order
* @param mode Identifies the processing mode. It should match the
* mode defined when the element handler was registered using
* setHandler with a mode parameter. Set this parameter to null to
* invoke the default mode.
* @param parameters A ParameterSet containing the parameters to
* the handler/template being invoked. Specify null if there are no
* parameters.
* @param tunnelParameters A ParameterSet containing the parameters to
* the handler/template being invoked. Specify null if there are no
* parameters.
* @param context A newly-created context object (this must be freshly created by the caller,
* as it will be modified by this method)
* @param backwardsCompatible true if running in backwards compatibility mode
* @param locationId location of this apply-templates instruction in the stylesheet
* @return a TailCall returned by the last template to be invoked, or null,
* indicating that there are no outstanding tail calls.
*/

```

```

public static TailCall applyTemplates(SequenceIterator iterator,
        Mode mode,
        ParameterSet parameters,
        ParameterSet tunnelParameters,
        XPathContextMajor context,
        boolean backwardsCompatible,
        int locationId)
        throws XPathException {
    Controller controller = context.getController();

```

```

TailCall tc = null;

// Iterate over this sequence

if (controller.isTracing()) {

    context.setCurrentIterator(iterator);
    context.setCurrentMode(mode);
    while(true) {

        NodeInfo node = (NodeInfo)iterator.next();
        // We can assume it's a node - we did static type checking
        if (node == null) {
            break;
        }
        // process any tail calls returned from previous nodes
        while (tc != null) {
            tc = tc.processLeavingTail();
        }

        // find the template rule for this node
        Rule rule = controller.getRuleManager().getTemplateRule(node, mode, context);

        if (rule==null) {           // Use the default action for the node
            // No need to open a new stack frame!
            defaultAction(node, parameters, tunnelParameters, context, backwardsCompatible, locationId);

        } else {
            Template template = (Template)rule.getAction();
            TraceListener traceListener = controller.getTraceListener();
            context.setLocalParameters(parameters);
            context.setTunnelParameters(tunnelParameters);
            context.openStackFrame(template.getStackFrameMap());
            traceListener.startCurrentItem(node);
            tc = template.applyLeavingTail(context, rule);
            traceListener.endCurrentItem(node);
        }
    }

} else { // not tracing

    context.setCurrentIterator(iterator);
    context.setCurrentMode(mode);
    boolean lookahead = (iterator.getProperties() & SequenceIterator.LOOKAHEAD) != 0;
    Template previousTemplate = null;
    while(true) {

        // process any tail calls returned from previous nodes. We need to do this before changing

```

```

// the context. If we have a LookaheadIterator, we can tell whether we're positioned at the
// end without changing the current position, and we can then return the last tail call to
// the caller and execute it further down the stack, reducing the risk of running out of stack
// space. In other cases, we need to execute the outstanding tail calls before moving the iterator

if (tc != null) {
    if (lookahead && !((LookaheadIterator)iterator).hasNext()) {
        break;
    }
    do {
        tc = tc.processLeavingTail();
    } while (tc != null);
}

NodeInfo node = (NodeInfo)iterator.next();
    // We can assume it's a node - we did static type checking
if (node == null) {
    break;
}

// find the template rule for this node

Rule rule = controller.getRuleManager().getTemplateRule(node, mode, context);

if (rule==null) {
    // Use the default action for the node
    // No need to open a new stack frame!
    defaultAction(node, parameters, tunnelParameters, context, backwardsCompatible, locationId);
} else {
    Template template = (Template)rule.getAction();
    if (template != previousTemplate) {
        // Reuse the previous stackframe unless it's a different template rule
        previousTemplate = template;
        context.openStackFrame(template.getStackFrameMap());
        context.setLocalParameters(parameters);
        context.setTunnelParameters(tunnelParameters);
    }
    //noinspection ConstantConditions
    tc = template.applyLeavingTail(context, rule);
}
}
// return the TailCall returned from the last node processed
return tc;
}

/**
 * Perform the built-in template action for a given node.

```

```

*
* @param node the node to be processed
* @param parameters the parameters supplied to apply-templates
* @param tunnelParams the tunnel parameters to be passed through
* @param context the dynamic evaluation context
* @param backwardsCompatible true if in 1.0 mode (currently makes no difference)
* @param locationId location of the instruction (apply-templates, apply-imports etc) that caused
* the built-in template to be invoked
* @exception XPathException if any dynamic error occurs
*/

public static void defaultAction(NodeInfo node,
                                ParameterSet parameters,
                                ParameterSet tunnelParams,
                                XPathContext context,
                                boolean backwardsCompatible,
                                int locationId) throws XPathException {
switch(node.getNodeKind()) {
case Type.DOCUMENT:
case Type.ELEMENT:
    SequenceIterator iter = node.iterateAxis(Axis.CHILD);
    XPathContextMajor c2 = context.newContext();
    c2.setOriginatingConstructType(Location.BUILT_IN_TEMPLATE);
    TailCall tc = applyTemplates(
        iter, context.getCurrentMode(), parameters, tunnelParams, c2, backwardsCompatible, locationId);
    while (tc != null) {
        tc = tc.processLeavingTail();
    }
    return;
case Type.TEXT:
    // NOTE: I tried changing this to use the text node's copy() method, but
    // performance was worse
case Type.ATTRIBUTE:
    context.getReceiver().characters(node.getStringValueCS(), locationId, 0);
    return;
case Type.COMMENT:
case Type.PROCESSING_INSTRUCTION:
case Type.NAMESPACE:
    // no action
}
}

/**
* Get all the XPath expressions associated with this instruction
* (in XSLT terms, the expression present on attributes of the instruction,
* as distinct from the child instructions in a sequence construction)
*/

```



```

public Iterator iterateSubExpressions() {
    ArrayList list = new ArrayList(10);
    list.add(select);
    WithParam.getXPathExpressions(actualParams, list);
    WithParam.getXPathExpressions(tunnelParams, list);
    return list.iterator();
}

/**
 * Given an expression that is an immediate child of this expression, test whether
 * the evaluation of the parent expression causes the child expression to be
 * evaluated repeatedly
 * @param child the immediate subexpression
 * @return true if the child expression is evaluated repeatedly
 */

public boolean hasLoopingSubexpression(Expression child) {
    return child instanceof WithParam;
}

/**
 * Replace one subexpression by a replacement subexpression
 * @param original the original subexpression
 * @param replacement the replacement subexpression
 * @return true if the original subexpression is found
 */

public boolean replaceSubExpression(Expression original, Expression replacement) {
    boolean found = false;
    if (select == original) {
        select = replacement;
        found = true;
    }
    if (WithParam.replaceXPathExpression(actualParams, original, replacement)) {
        found = true;
    }
    if (WithParam.replaceXPathExpression(tunnelParams, original, replacement)) {
        found = true;
    }
    return found;
}

/**
 * Get the select expression
 * @return the select expression
 */

```

```

public Expression getSelectExpression() {
    return select;
}

/**
 * Handle promotion offers, that is, non-local tree rewrites.
 * @param offer The type of rewrite being offered
 * @throws XPathException
 */

protected void promoteInst(PromotionOffer offer) throws XPathException {
    select = doPromotion(select, offer);
    WithParam.promoteParams(actualParams, offer);
    WithParam.promoteParams(tunnelParams, offer);
}

/**
 * Diagnostic print of expression structure. The abstract expression tree
 * is written to the supplied output destination.
 * @param out output destination
 */

public void explain(ExpressionPresenter out) {

    out.startElement("applyTemplates");
    if (mode != null && !mode.isDefaultMode()) {
        out.emitAttribute("mode", mode.getModeName().getDisplayname());
    }
    out.startSubsidiaryElement("select");
    select.explain(out);
    out.endSubsidiaryElement();
    if (actualParams != null && actualParams.length > 0) {
        out.startSubsidiaryElement("withParams");
        WithParam.displayExpressions(actualParams, out);
        out.endSubsidiaryElement();
    }
    if (tunnelParams != null && tunnelParams.length > 0) {
        out.startSubsidiaryElement("tunnelParams");
        WithParam.displayExpressions(tunnelParams, out);
        out.endSubsidiaryElement();
    }
    out.endElement();
}

/**
 * An ApplyTemplatesPackage is an object that encapsulates the sequence of nodes to be processed,
 * the mode, the parameters to be supplied, and the execution context. This object can be returned as a tail
 * call, so that the actual call is made from a lower point on the stack, allowing a tail-recursive

```

```

* template to execute in a finite stack size
*/

private static class ApplyTemplatesPackage implements TailCall {

    private ValueRepresentation selectedNodes;
    private Mode mode;
    private ParameterSet params;
    private ParameterSet tunnelParams;
    private XPathContextMajor evaluationContext;
    private int locationId;

    ApplyTemplatesPackage(ValueRepresentation selectedNodes,
                          Mode mode,
                          ParameterSet params,
                          ParameterSet tunnelParams,
                          XPathContextMajor context,
                          int locationId
                          ) {
        this.selectedNodes = selectedNodes;
        this.mode = mode;
        this.params = params;
        this.tunnelParams = tunnelParams;
        evaluationContext = context;
        this.locationId = locationId;
    }

    public TailCall processLeavingTail() throws XPathException {
        return applyTemplates(
            Value.getIterator(selectedNodes),
            mode, params, tunnelParams, evaluationContext, false, locationId);
    }
}

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//
// The Initial Developer of the Original Code is Michael H. Kay.

```

```

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//
package net.sf.saxon.instruct;

import net.sf.saxon.expr.*;
import net.sf.saxon.om.*;
import net.sf.saxon.trans.XPathException;
import net.sf.saxon.type.ItemType;
import net.sf.saxon.type.Type;
import net.sf.saxon.type.TypeHierarchy;
import net.sf.saxon.type.BuiltInAtomicType;
import net.sf.saxon.value.AtomicValue;
import net.sf.saxon.value.Cardinality;
import net.sf.saxon.value.StringValue;
import net.sf.saxon.value.Value;
import net.sf.saxon.trace.ExpressionPresenter;

import java.util.Iterator;

/**
 * This class implements the rules for an XSLT (or XQuery) simple content constructor, which are used in
 * constructing
 * the string value of an attribute node, text node, comment node, etc, from the value of the select
 * expression or the contained sequence constructor.
 */

public class SimpleContentConstructor extends Expression {

    Expression select;
    Expression separator;
    boolean isSingleton = false;
    boolean isAtomic = false;

    /**
     * Create a SimpleContentConstructor
     * @param select the select expression (which computes a sequence of strings)
     * @param separator the separator expression (which computes a value to separate adjacent strings)
     */

    public SimpleContentConstructor(Expression select, Expression separator) {
        this.select = select;
        this.separator = separator;
        adoptChildExpression(select);
        adoptChildExpression(separator);
        select.setFlattened(true);
    }

```

```

}

/**
 * Get the select expression
 * @return the select expression
 */

public Expression getSelectExpression() {
    return select;
}

/**
 * Get the separator expression
 * @return the separator expression
 */

public Expression getSeparatorExpression() {
    return separator;
}

/**
 * Determine whether the select expression is a singleton (an expression returning zero or one items)
 * @return true if the select expression will always be of length zero or one
 */

public boolean isSingleton() {
    return isSingleton;
}

/**
 * Determine if the select expression is atomic
 * @return true if the select expression always returns atomic values
 */

public boolean isAtomic() {
    return isAtomic;
}

/**
 * Compute the cardinality of the result of the expression.
 * @return the cardinality, @link {StaticProperty.EXACTLY_ONE}
 */

protected int computeCardinality() {
    return StaticProperty.EXACTLY_ONE;
}
}

```

```

/**
 * Copy an expression. This makes a deep copy.
 * @return the copy of the original expression
 */

public Expression copy() {
    return new SimpleContentConstructor(select.copy(), separator.copy());
}

/**
 * Simplify an expression. This performs any static optimization (by rewriting the expression
 * as a different expression). The default implementation does nothing.
 *
 * @return the simplified expression
 * @throws net.sf.saxon.trans.XPathException
 *         if an error is discovered during expression
 *         rewriting
 * @param visitor an expression visitor
 */

public Expression simplify(ExpressionVisitor visitor) throws XPathException {
    select = visitor.simplify(select);
    if (select instanceof Literal && ((Literal)select).getValue() instanceof AtomicValue) {
        return select;
    }
    separator = visitor.simplify(separator);
    return this;
}

public Expression typeCheck(ExpressionVisitor visitor, ItemType contextItemType) throws XPathException {
    select = visitor.typeCheck(select, contextItemType);
    separator = visitor.typeCheck(separator, contextItemType);
    if (!Cardinality.allowsMany(select.getCardinality())) {
        isSingleton = true;
    }
    final TypeHierarchy th = visitor.getConfiguration().getTypeHierarchy();
    if (select.getItemType(th).isAtomicType()) {
        isAtomic = true;
    }
    select.setFlattened(true);
    if (select instanceof Literal && separator instanceof Literal) {
        XPathContext c = visitor.getStaticContext().makeEarlyEvaluationContext();
        return new Literal(Value.asValue(evaluateItem(c)));
    }
    return this;
}

```

```

public Expression optimize(ExpressionVisitor visitor, ItemType contextItemType) throws XPathException {
    select = visitor.optimize(select, contextItemType);
    separator = visitor.optimize(separator, contextItemType);
    if (select instanceof Literal && separator instanceof Literal) {
        XPathContext c = visitor.getStaticContext().makeEarlyEvaluationContext();
        return Literal.makeLiteral(Value.asValue(evaluateItem(c)));
    }
    return this;
}

/**
 * Determine the data type of the expression, if possible. All expression return
 * sequences, in general; this method determines the type of the items within the
 * sequence, assuming that (a) this is known in advance, and (b) it is the same for
 * all items in the sequence.
 * <p/>
 * <p>This method should always return a result, though it may be the best approximation
 * that is available at the time.</p>
 *
 * @return a value such as Type.STRING, Type.BOOLEAN, Type.NUMBER,
 *         Type.NODE, or Type.ITEM (meaning not known at compile time)
 * @param th the type hierarchy cache
 */

public ItemType getItemType(TypeHierarchy th) {
    return BuiltInAtomicType.STRING;
}

/**
 * Diagnostic print of expression structure. The abstract expression tree
 * is written to the supplied output destination.
 */

public void explain(ExpressionPresenter out) {
    out.startElement("simpleContentConstructor");
    select.explain(out);
    separator.explain(out);
    out.endElement();
}

/**
 * Get the immediate sub-expressions of this expression. Default implementation
 * returns a zero-length array, appropriate for an expression that has no
 * sub-expressions.
 *
 * @return an iterator containing the sub-expressions of this expression
 */

```

```

public Iterator iterateSubExpressions() {
    return new PairIterator(select, separator);
}

/**
 * Replace one subexpression by a replacement subexpression
 * @param original the original subexpression
 * @param replacement the replacement subexpression
 * @return true if the original subexpression is found
 */

public boolean replaceSubExpression(Expression original, Expression replacement) {
    boolean found = false;
    if (select == original) {
        select = replacement;
        found = true;
    }
    if (separator == original) {
        separator = replacement;
        found = true;
    }
    return found;
}

/**
 * Offer promotion for this subexpression. The offer will be accepted if the subexpression
 * is not dependent on the factors (e.g. the context item) identified in the PromotionOffer.
 * By default the offer is not accepted - this is appropriate in the case of simple expressions
 * such as constant values and variable references where promotion would give no performance
 * advantage. This method is always called at compile time.
 *
 * @param offer details of the offer, for example the offer to move
 *         expressions that don't depend on the context to an outer level in
 *         the containing expression
 * @return if the offer is not accepted, return this expression unchanged.
 *         Otherwise return the result of rewriting the expression to promote
 *         this subexpression
 * @throws net.sf.saxon.trans.XPathException
 *         if any error is detected
 */

public Expression promote(PromotionOffer offer) throws XPathException {
    Expression exp = offer.accept(this);
    if (exp != null) {
        return exp;
    } else {

```



```

        select = doPromotion(select, offer);
        separator = doPromotion(separator, offer);
        return this;
    }
}

/**
 * Evaluate an expression as a single item. This always returns either a single Item or
 * null (denoting the empty sequence). No conversion is done. This method should not be
 * used unless the static type of the expression is a subtype of "item" or "item?": that is,
 * it should not be called if the expression may return a sequence. There is no guarantee that
 * this condition will be detected.
 *
 * @param context The context in which the expression is to be evaluated
 * @return the node or atomic value that results from evaluating the
 *         expression; or null to indicate that the result is an empty
 *         sequence
 * @throws net.sf.saxon.trans.XPathException
 *         if any dynamic error occurs evaluating the
 *         expression
 */

public Item evaluateItem(XPathContext context) throws XPathException {
    SequenceIterator iter;
    if (isSingleton) {
        // optimize for this case
        Item item = select.evaluateItem(context);
        if (item == null || item instanceof StringValue) {
            return item;
        } else if (item instanceof AtomicValue) {
            return ((AtomicValue)item).convert(BuiltInAtomicType.STRING, true, context).asAtomic();
        } else {
            iter = SingletonIterator.makeIterator(item);
        }
    } else {
        iter = select.iterate(context);
    }
    FastStringBuffer sb = new FastStringBuffer(1024);
    boolean prevText = false;
    boolean first = true;
    CharSequence sep = null;
    while (true) {
        Item item = iter.next();
        if (item==null) {
            break;
        }
        if (item instanceof NodeInfo) {
            if (((NodeInfo)item).getNodeKind() == Type.TEXT) {

```

```

CharSequence s = item.getStringValueCS();
if (s.length() > 0) {
    if (!first && !prevText) {
        if (sep == null) {
            sep = separator.evaluateItem(context).getStringValueCS();
        }
        sb.append(sep);
    }
    first = false;
    sb.append(s);
    prevText = true;
}
} else {
    prevText = false;
    SequenceIterator iter2 = item.getTypedValue();
    while (true) {
        Item item2 = iter2.next();
        if (item2 == null) {
            break;
        }
        if (!first) {
            if (sep == null) {
                sep = separator.evaluateItem(context).getStringValueCS();
            }
            sb.append(sep);
        }
        first = false;
        sb.append(item2.getStringValueCS());
    }
}
} else {
    if (!first) {
        if (sep == null) {
            sep = separator.evaluateItem(context).getStringValueCS();
        }
        sb.append(sep);
    }
    first = false;
    prevText = false;
    sb.append(item.getStringValueCS());
}
}
return StringValue.makeStringValue(sb.condense());
}

```

/\*\*

\* An implementation of Expression must provide at least one of the methods evaluateItem(), iterate(), or process().

```

* This method indicates which of these methods is preferred.
*/

public int getImplementationMethod() {
    return Expression.EVALUATE_METHOD;
}

}

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//
package net.sf.saxon.instruct;

import net.sf.saxon.expr.Atomizer;
import net.sf.saxon.expr.Expression;
import net.sf.saxon.expr.StaticProperty;
import net.sf.saxon.expr.XPathContext;
import net.sf.saxon.om.FastStringBuffer;
import net.sf.saxon.om.Item;
import net.sf.saxon.om.SequenceIterator;
import net.sf.saxon.trans.XPathException;
import net.sf.saxon.type.BuiltInAtomicType;
import net.sf.saxon.value.AtomicValue;
import net.sf.saxon.value.StringValue;

/**
* This class implements the rules for an XQuery simple content constructor, which are used in constructing
* the string value of an attribute node, text node, comment node, etc, from the value of the select
* expression or the contained sequence constructor. These differ slightly from the XSLT rules implemented
* in the superclass - specifically, the sequence is simply atomized, whereas XSLT takes special steps to
* concatenate adjacent text nodes before inserting separators.
*/

```

```

public class QuerySimpleContentConstructor extends SimpleContentConstructor {

    boolean noNodeIfEmpty;

    public QuerySimpleContentConstructor(Expression select, Expression separator, boolean noNodeIfEmpty) {
        super(select, separator);
        this.noNodeIfEmpty = noNodeIfEmpty;
    }

    public boolean isNoNodeWhenEmpty() {
        return noNodeIfEmpty;
    }

    /**
     * Compute the cardinality of the result of the expression.
     * @return the cardinality, @link {StaticProperty.EXACTLY_ONE}
     */

    protected int computeCardinality() {
        if (noNodeIfEmpty) {
            return StaticProperty.ALLOWS_ZERO_OR_ONE;
        } else {
            return StaticProperty.EXACTLY_ONE;
        }
    }

    /**
     * Copy an expression. This makes a deep copy.
     * @return the copy of the original expression
     */

    public Expression copy() {
        return new QuerySimpleContentConstructor(select.copy(), separator.copy(), noNodeIfEmpty);
    }

    /**
     * Expand the stylesheet elements subordinate to this one, returning the result
     * as a string. The expansion must not generate any element or attribute nodes.
     * @param context The dynamic context for the transformation
     */

    public CharSequence expandChildren(XPathContext context) throws XPathException {
        Item item = select.evaluateItem(context);
        if (item==null) {
            return (noNodeIfEmpty ? null : "");
        } else {
            return item.getStringValueCS();
        }
    }
}

```

```

    }
}

/**
 * Evaluate an expression as a single item. This always returns either a single Item or
 * null (denoting the empty sequence). No conversion is done. This method should not be
 * used unless the static type of the expression is a subtype of "item" or "item?": that is,
 * it should not be called if the expression may return a sequence. There is no guarantee that
 * this condition will be detected.
 *
 * @param context The context in which the expression is to be evaluated
 * @return the node or atomic value that results from evaluating the
 *         expression; or null to indicate that the result is an empty
 *         sequence
 * @throws net.sf.saxon.trans.XPathException
 *         if any dynamic error occurs evaluating the
 *         expression
 */

public Item evaluateItem(XPathContext context) throws XPathException {

    if (isSingleton && isAtomic) {
        // optimize for this case
        Item item = select.evaluateItem(context);
        if (item == null) {
            if (noNodeIfEmpty) {
                return null;
            } else {
                return StringValue.EMPTY_STRING;
            }
        }
        if (item instanceof StringValue) {
            return item;
        } else {
            return ((AtomicValue)item).convert(BuiltInAtomicType.STRING, true, context).asAtomic();
        }
    }
    SequenceIterator iter = select.iterate(context);
    if (!isAtomic) {
        iter = Atomizer.getAtomizingIterator(iter);
    }
    FastStringBuffer sb = new FastStringBuffer(1024);
    boolean first = true;
    String sep = " ";
    while (true) {
        Item item = iter.next();
        if (item==null) {
            break;

```

```

    }
    if (!first) {
        sb.append(sep);
    }
    first = false;
    sb.append(item.getStringValueCS());
}
if (first && noNodeIfEmpty) {
    return null;
}
return StringValue.makeStringValue(sb.condense());
}

}

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//
package net.sf.saxon.instruct;
import net.sf.saxon.Configuration;
import net.sf.saxon.pattern.Pattern;
import net.sf.saxon.expr.Expression;
import net.sf.saxon.expr.XPathContext;
import net.sf.saxon.expr.XPathContextMajor;
import net.sf.saxon.om.StructuredQName;
import net.sf.saxon.trace.Location;
import net.sf.saxon.trans.Rule;
import net.sf.saxon.trans.XPathException;
import net.sf.saxon.value.SequenceType;

/**
 * An xsl:template element in the style sheet.
 */

```

```

public class Template extends Procedure {

    // TODO: change the calling mechanism for named templates to use positional parameters
    // in the same way as functions. For templates that have both a match and a name attribute,
    // create a match template as a wrapper around the named template, resulting in separate
    // NamedTemplate and MatchTemplate classes. For named templates, perhaps compile into function
    // calls directly, the only difference being that context is retained.

    // The body of the template is represented by an expression,
    // which is responsible for any type checking that's needed.

    private Pattern matchPattern;
    private int precedence;
    private int minImportPrecedence;
    private StructuredQName templateName;
    private boolean hasRequiredParams;
    private boolean bodyIsTailCallReturner;
    private SequenceType requiredType;

    /**
     * Create a template
     */

    public Template () {
        setHostLanguage(Configuration.XSLT);
    }

    /**
     * Initialize the template
     * @param templateName the name of the template (if any)
     * @param precedence the import precedence
     * @param minImportPrecedence the minimum import precedence to be considered in the search
     * performed by apply-imports
     */

    public void init ( StructuredQName templateName,
                      int precedence,
                      int minImportPrecedence) {
        this.templateName = templateName;
        this.precedence = precedence;
        this.minImportPrecedence = minImportPrecedence;
    }

    /**
     * Set the match pattern used with this template
     * @param pattern the match pattern (may be null for a named template)
     */

```

```

public void setMatchPattern(Pattern pattern) {
    matchPattern = pattern;
}

/**
 * Get the match pattern used with this template
 * @return the match pattern, or null if this is a named template with no match pattern
 */

public Pattern getMatchPattern() {
    return matchPattern;
}

/**
 * Set the expression that forms the body of the template
 * @param body the body of the template
 */

public void setBody(Expression body) {
    super.setBody(body);
    bodyIsTailCallReturner = (body instanceof TailCallReturner);
}

/**
 * Get the name of the template (if it is named)
 * @return the template name, or null if unnamed
 */

public StructuredQName getTemplateName() {
    return templateName;
}

/**
 * Get a name identifying the object of the expression, for example a function name, template name,
 * variable name, key name, element name, etc. This is used only where the name is known statically.
 */

public StructuredQName getObjectName() {
    return templateName;
}

/**
 * Get the import precedence of the template
 * @return the import precedence (a higher number means a higher precedence)
 */

```



```

public int getPrecedence() {
    return precedence;
}

/**
 * Get the minimum import precedence used by xsl:apply-imports
 * @return the minimum import precedence of templates that are candidates for calling by apply-imports
 */

public int getMinImportPrecedence() {
    return minImportPrecedence;
}

/**
 * Set whether this template has one or more required parameters
 * @param has true if the template has at least one required parameter
 */

public void setHasRequiredParams(boolean has) {
    hasRequiredParams = has;
}

/**
 * Ask whether this template has one or more required parameters
 * @return true if this template has at least one required parameter
 */

public boolean hasRequiredParams() {
    return hasRequiredParams;
}

/**
 * Set the required type to be returned by this template
 * @param type the required type as defined in the "as" attribute on the xsl:template element
 */

public void setRequiredType(SequenceType type) {
    requiredType = type;
}

/**
 * Get the required type to be returned by this template
 * @return the required type as defined in the "as" attribute on the xsl:template element
 */

public SequenceType getRequiredType() {
    if (requiredType == null) {

```

```

        return SequenceType.ANY_SEQUENCE;
    } else {
        return requiredType;
    }
}

/**
 * Process the template, without returning any tail calls. This path is used by
 * xsl:apply-imports and xsl:next-match
 * @param context The dynamic context, giving access to the current node,
 * @param rule the template rule that caused this template to be invoked. When a template has
 * a match pattern defined as a union, there can be more than one Rule referring to the same template,
 * and further calls on next-match or apply-imports need to know which one in in force
 */

public void apply(XPathContext context, Rule rule) throws XPathException {
    TailCall tc = applyLeavingTail(context, rule);
    while (tc != null) {
        tc = tc.processLeavingTail();
    }
}

/**
 * Process this template, with the possibility of returning a tail call package if the template
 * contains any tail calls that are to be performed by the caller.
 * @param context the XPath dynamic context
 * @param rule the template rule that caused this template to be invoked. When a template has
 * a match pattern defined as a union, there can be more than one Rule referring to the same template,
 * and further calls on next-match or apply-imports need to know which one in in force
 * @return null if the template exited normally; but if it was a tail call, details of the call
 * that hasn't been made yet and needs to be made by the caller
 */

public TailCall applyLeavingTail(XPathContext context, Rule rule) throws XPathException {
    if (body==null) {
        // fast path for an empty template
        return null;
    }
    XPathContextMajor c2 = context.newContext();
    c2.setOriginatingConstructType(Location.TEMPLATE);
    c2.setCurrentTemplateRule(rule);

    if (bodyIsTailCallReturner) {
        return ((TailCallReturner)body).processLeavingTail(c2);
    } else {
        body.process(c2);
        return null;
    }
}

```

```

}

/**
 * Expand the template. Called when the template is invoked using xsl:call-template.
 * Invoking a template by this method does not change the current template.
 * @param context the XPath dynamic context
 * @return null if the template exited normally; but if it was a tail call, details of the call
 * that hasn't been made yet and needs to be made by the caller
 */

public TailCall expand(XPathContext context) throws XPathException {
    if (bodyIsTailCallReturner) {
        return ((TailCallReturner)body).processLeavingTail(context);
    } else if (body != null) {
        body.process(context);
    }
    return null;
}

/**
 * Get the type of construct. This will either be the fingerprint of a standard XSLT instruction name
 * (values in {@link net.sf.saxon.om.StandardNames}: all less than 1024)
 * or it will be a constant in class {@link net.sf.saxon.trace.Location}.
 */

public int getConstructType() {
    return Location.TEMPLATE;
}

}

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```

//
package net.sf.saxon.instruct;
import net.sf.saxon.Configuration;
import net.sf.saxon.expr.*;
import net.sf.saxon.om.Item;
import net.sf.saxon.om.Orphan;
import net.sf.saxon.om.SequenceIterator;
import net.sf.saxon.om.SingletonIterator;
import net.sf.saxon.trans.XPathException;
import net.sf.saxon.type.BuiltInAtomicType;
import net.sf.saxon.type.ItemType;
import net.sf.saxon.type.TypeHierarchy;

import java.util.Iterator;

/**
 * Common superclass for XSLT instructions whose content template produces a text
 * value: xsl:attribute, xsl:comment, xsl:processing-instruction, xsl:namespace,
 * and xsl:text, and their XQuery equivalents
 */

public abstract class SimpleNodeConstructor extends Instruction {

    protected Expression select = null;

    /**
     * Default constructor used by subclasses
     */

    public SimpleNodeConstructor() {
    }

    /**
     * Set the select expression: the value of this expression determines the string-value of the node
     * @param select the expression that computes the string value of the node
     * @param config the Saxon configuration (used for example to do early validation of the content
     * of an attribute against the schema-defined type)
     * @throws XPathException
     */

    public void setSelect(Expression select, Configuration config) throws XPathException {
        this.select = select;
        adoptChildExpression(select);
    }

    /**
     * Get the expression that determines the string value of the constructed node
     * @return the select expression
     */

```

```

*/

public Expression getSelect() {
    return select;
}

/**
 * Determine whether this instruction creates new nodes.
 * This implementation returns true.
 */

public final boolean createsNewNodes() {
    return true;
}

/**
 * Get the cardinality of the sequence returned by evaluating this instruction
 * @return the static cardinality
 */

public int computeCardinality() {
    return StaticProperty.EXACTLY_ONE;
}

public Expression simplify(ExpressionVisitor visitor) throws XPathException {
    if (select != null) {
        select = visitor.simplify(select);
    }
    return this;
}

/**
 * Get the static properties of this expression (other than its type). The result is
 * bit-significant. These properties are used for optimizations. In general, if
 * property bit is set, it is true, but if it is unset, the value is unknown.
 *
 * @return a set of flags indicating static properties of this expression
 */

public int computeSpecialProperties() {
    return super.computeSpecialProperties() |
        StaticProperty.SINGLE_DOCUMENT_NODESET;
}

/**
 * Method to perform type-checking specific to the kind of instruction
 * @param visitor an expression visitor
 * @param contextItemType the static type of the context item

```

```

* @throws XPathException
*/

public abstract void localTypeCheck(ExpressionVisitor visitor, ItemType contextItemType) throws
XPathException;

/**
 * The typeCheck() method is called in XQuery, where node constructors
 * are implemented as Expressions. In this case the required type for the
 * select expression is a single string.
 * @param visitor an expression visitor
 * @return the rewritten expression
 * @throws XPathException if any static errors are found in this expression
 * or any of its children
 */

public Expression typeCheck(ExpressionVisitor visitor, ItemType contextItemType) throws XPathException {
    localTypeCheck(visitor, contextItemType);

    if (select != null) {
        final TypeHierarchy th = visitor.getConfiguration().getTypeHierarchy();
        select = visitor.typeCheck(select, contextItemType);
        if (!select.getItemType(th).isAtomicType()) {
            select = new Atomizer(select, visitor.getConfiguration()).simplify(visitor);
        }
        if (!th.isSubType(select.getItemType(th), BuiltInAtomicType.STRING)) {
            select = new AtomicSequenceConverter(select, BuiltInAtomicType.STRING);
        }
        adoptChildExpression(select);
    }
    return this;
}

public Expression optimize(ExpressionVisitor visitor, ItemType contextItemType) throws XPathException {
    if (select != null) {
        select = visitor.optimize(select, contextItemType);
        adoptChildExpression(select);
    }
    return this;
}

public Iterator iterateSubExpressions() {
    return new MonoIterator(select);
}

/**
 * Replace one subexpression by a replacement subexpression
 * @param original the original subexpression

```

```

* @param replacement the replacement subexpression
* @return true if the original subexpression is found
*/

public boolean replaceSubExpression(Expression original, Expression replacement) {
    boolean found = false;
    if (select == original) {
        select = replacement;
        found = true;
    }
    return found;
}

/**
 * Expand the stylesheet elements subordinate to this one, returning the result
 * as a string. The expansion must not generate any element or attribute nodes.
 * @param context The dynamic context for the transformation
 * @return the value that will be used as the string value of the constructed node
 * @throws XPathException if any error occurs
 */

public CharSequence expandChildren(XPathContext context) throws XPathException {
    Item item = select.evaluateItem(context);
    if (item==null) {
        return "";
    } else {
        return item.getStringValueCS();
    }
}

/**
 * Evaluate as an expression. We rely on the fact that when these instructions
 * are generated by XQuery, there will always be a valueExpression to evaluate
 * the content
 */

public Item evaluateItem(XPathContext context) throws XPathException {
    String content = (select==null ?
        "" :
        select.evaluateAsString(context).toString());
    content = checkContent(content, context);
    final TypeHierarchy th = context.getConfiguration().getTypeHierarchy();
    Orphan o = new Orphan(context.getConfiguration());
    o.setNodeKind((short)getItemType(th).getPrimitiveType());
    o.setStringValue(content);
    o.setNameCode(evaluateNameCode(context));
    return o;
}

```

```

}

/**
 * Check the content of the node, and adjust it if necessary. The checks depend on the node kind.
 * @param data the supplied content
 * @param context the dynamic context
 * @return the original content, unless adjustments are needed
 * @throws XPathException if the content is invalid
 */

protected String checkContent(String data, XPathContext context) throws XPathException {
    return data;
}

/**
 * Run-time method to compute the name of the node being constructed. This is overridden
 * for nodes that have a name. The default implementation returns -1, which is suitable for
 * unnamed nodes such as comments
 * @param context the XPath dynamic evaluation context
 * @return the name pool nameCode identifying the name of the constructed node
 * @throws XPathException if any failure occurs
 */

public int evaluateNameCode(XPathContext context) throws XPathException {
    return -1;
}

public SequenceIterator iterate(XPathContext context) throws XPathException {
    return SingletonIterator.makeIterator(evaluateItem(context));
}

/**
 * Offer promotion for subexpressions. The offer will be accepted if the subexpression
 * is not dependent on the factors (e.g. the context item) identified in the PromotionOffer.
 * By default the offer is not accepted - this is appropriate in the case of simple expressions
 * such as constant values and variable references where promotion would give no performance
 * advantage. This method is always called at compile time.
 *
 * @param offer details of the offer, for example the offer to move
 * expressions that don't depend on the context to an outer level in
 * the containing expression
 * @exception XPathException if any error is detected
 */

protected void promoteInst(PromotionOffer offer) throws XPathException {
    if (select != null) {
        select = doPromotion(select, offer);
    }
}

```



```

        super.promoteInst(offer);
    }

}

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//
package net.sf.saxon;

import net.sf.saxon.event.PIGrabber;
import net.sf.saxon.event.Sender;
import net.sf.saxon.om.NamespaceConstant;
import net.sf.saxon.trans.CompilerInfo;
import net.sf.saxon.trans.XPathException;
import org.xml.sax.InputSource;
import org.xml.sax.XMLFilter;

import javax.xml.transform.*;
import javax.xml.transform.dom.DOMResult;
import javax.xml.transform.dom.DOMSource;
import javax.xml.transform.sax.*;
import javax.xml.transform.stream.StreamResult;
import javax.xml.transform.stream.StreamSource;
import java.io.StringReader;
import java.util.List;

/**
 * A TransformerFactoryImpl instance can be used to create Transformer and Template
 * objects.
 *
 * <p>The system property that determines which Factory implementation

```

\* to create is named "javax.xml.transform.TransformerFactory". This  
 \* property names a concrete subclass of the TransformerFactory abstract  
 \* class. If the property is not defined, a platform default is be used.</p>  
 \*  
 \* <p>This implementation class implements the abstract methods on both the  
 \* javax.xml.transform.TransformerFactory and javax.xml.transform.sax.SAXTransformerFactory  
 \* classes.  
 \*/

```
public class TransformerFactoryImpl extends SAXTransformerFactory {

    private Configuration config;

    /**
     * Default constructor.
     */
    public TransformerFactoryImpl() {
        config = new Configuration();
    }

    /**
     * Construct a TransformerFactory using an existing Configuration.
     * @param config the Saxon configuration
     */
    public TransformerFactoryImpl(Configuration config) {
        this.config = config;
    }

    /**
     * Set the configuration. This can also be done using the JAXP method
     * setAttribute, with the attribute name { @link FeatureKeys#CONFIGURATION}
     * @param config the Saxon configuration
     */

    public void setConfiguration(Configuration config) {
        this.config = config;
    }

    /**
     * Get the configuration. This can also be done using the JAXP method
     * getAttribute, with the attribute name { @link FeatureKeys#CONFIGURATION}
     * @return the Saxon configuration
     */

    public Configuration getConfiguration() {
        return config;
    }
}
```

```

/**
 * Process the Source into a Transformer object. Care must
 * be given not to use this object in multiple threads running concurrently.
 * Different TransformerFactories can be used concurrently by different
 * threads.
 *
 * @param source An object that holds a URI, input stream, etc.
 *
 * @return A Transformer object that may be used to perform a transformation
 * in a single thread, never null.
 *
 * @exception TransformerConfigurationException May throw this during the parse
 * when it is constructing the Templates object and fails.
 */

```

```

public Transformer newTransformer(Source source)
    throws TransformerConfigurationException {
    Templates templates = newTemplates(source);
    return templates.newTransformer();
}

```

```

/**
 * Create a new Transformer object that performs a copy
 * of the source to the result.
 *
 * @return A Transformer object that may be used to perform a transformation
 * in a single thread, never null.
 *
 * @exception TransformerConfigurationException May throw this during
 * the parse when it is constructing the
 * Templates object and fails.
 */

```

```

public Transformer newTransformer()
    throws TransformerConfigurationException {

    return new IdentityTransformer(config);
}

```

```

/**
 * Process the Source into a Templates object, which is a
 * a compiled representation of the source. This Templates object
 * may then be used concurrently across multiple threads. Creating
 * a Templates object allows the TransformerFactory to do detailed
 * performance optimization of transformation instructions, without
 * penalizing runtime transformation.
 *

```

```

* @param source An object that holds a URL, input stream, etc.
*
* @return A Templates object capable of being used for transformation purposes,
* never null.
*
* @exception TransformerConfigurationException May throw this during the parse when it
*         is constructing the Templates object and fails.
*/

public Templates newTemplates(Source source)
    throws TransformerConfigurationException {

    CompilerInfo info = new CompilerInfo();
    info.setURIResolver(config.getURIResolver());
    info.setErrorListener(config.getErrorListener());
    info.setCompileWithTracing(config.isCompileWithTracing());
    PreparedStylesheet pss = new PreparedStylesheet(config, info);
    pss.prepare(source);
    return pss;
}

/**
* Process the Source into a Templates object, which is a
* a compiled representation of the source. This Templates object
* may then be used concurrently across multiple threads. Creating
* a Templates object allows the TransformerFactory to do detailed
* performance optimization of transformation instructions, without
* penalizing runtime transformation.
*
* @param source An object that holds a URL, input stream, etc.
* @param info compile-time options for this stylesheet compilation
*
* @return A Templates object capable of being used for transformation purposes,
* never null.
*
* @exception TransformerConfigurationException May throw this during the parse when it
*         is constructing the Templates object and fails.
*/

public Templates newTemplates(Source source, CompilerInfo info)
    throws TransformerConfigurationException {

    PreparedStylesheet pss = new PreparedStylesheet(config, info);
    pss.prepare(source);
    return pss;
}

```

```

/**
 * Get the stylesheet specification(s) associated
 * via the xml-stylesheet processing instruction (see
 * http://www.w3.org/TR/xml-stylesheet/) with the document
 * document specified in the source parameter, and that match
 * the given criteria. Note that it is possible to return several
 * stylesheets, in which case they are applied as if they were
 * a list of imports or cascades.
 *
 * @param source The XML source document.
 * @param media The media attribute to be matched. May be null, in which
 * case the preferred templates will be used (i.e. alternate = no).
 * @param title The value of the title attribute to match. May be null.
 * @param charset The value of the charset attribute to match. May be null.
 *
 * @return A Source object suitable for passing to the TransformerFactory.
 *
 * @throws TransformerConfigurationException if any problems occur
 */

```

```

public Source getAssociatedStylesheet(
    Source source, String media, String title, String charset)
    throws TransformerConfigurationException {

```

```

    PIGrabber grabber = new PIGrabber();
    grabber.setFactory(config);
    grabber.setCriteria(media, title, charset);
    grabber.setBaseURI(source.getSystemId());
    grabber.setURIResolver(config.getURIResolver());

    try {
        new Sender(config.makePipelineConfiguration()).send(source, grabber);
        // this parse will be aborted when the first start tag is found
    } catch (XPathException err) {
        if (grabber.isTerminated()) {
            // do nothing
        } else {
            throw new TransformerConfigurationException(
                "Failed while looking for xml-stylesheet PI", err);
        }
    }

    try {
        Source[] sources = grabber.getAssociatedStylesheets();
        if (sources==null) {
            throw new TransformerConfigurationException(

```

```

        "No matching <?xml-stylesheet?> processing instruction found");
    }
    return compositeStylesheet(source.getSystemId(), sources);
} catch (TransformerException err) {
    if (err instanceof TransformerConfigurationException) {
        throw (TransformerConfigurationException)err;
    } else {
        throw new TransformerConfigurationException(err);
    }
}
}

/**
 * Process a series of stylesheet inputs, treating them in import or cascade
 * order. This is mainly for support of the getAssociatedStylesheets
 * method, but may be useful for other purposes.
 * @param baseURI the base URI to be used for the synthesized composite stylesheet
 * @param sources An array of Source objects representing individual stylesheets.
 * @return A Source object representing a composite stylesheet.
 */

private Source compositeStylesheet(String baseURI, Source[] sources)
    throws TransformerConfigurationException {

    if (sources.length == 1) {
        return sources[0];
    } else if (sources.length == 0) {
        throw new TransformerConfigurationException(
            "No stylesheets were supplied");
    }

    // create a new top-level stylesheet that imports all the others

    StringBuffer sb = new StringBuffer(250);
    sb.append("<xsl:stylesheet version='1.0' ");
    sb.append(" xmlns:xsl='" + NamespaceConstant.XSLT + "'>");
    for (int i=0; i<sources.length; i++) {
        sb.append("<xsl:import href='").append(sources[i].getSystemId()).append("/>");
    }
    sb.append("</xsl:stylesheet>");
    InputSource composite = new InputSource();
    composite.setSystemId(baseURI);
    composite.setCharacterStream(new StringReader(sb.toString()));
    return new SAXSource(config.getSourceParser(), composite);
}

/**
 * Set an object that is used by default during the transformation

```

```

* to resolve URIs used in xsl:import, or xsl:include.
*
* @param resolver An object that implements the URIResolver interface,
* or null.
*/

public void setURIResolver(URIResolver resolver) {
    config.setURIResolver(resolver);
}

/**
 * Get the object that is used by default during the transformation
 * to resolve URIs used in document(), xsl:import, or xsl:include.
 *
 * @return The URIResolver that was set with setURIResolver.
 */

public URIResolver getURIResolver() {
    return config.getURIResolver();
}

//===== CONFIGURATION METHODS =====

private static final String FEATURE_SECURE_PROCESSING =
    //javax.xml.XMLConstants.FEATURE_SECURE_PROCESSING;
    "http://javax.xml.XMLConstants/feature/secure-processing";
    // Avoid reference to this JDK 1.5 constant

/**
 * Look up the value of a feature.
 *
 * <p>The feature name is any absolute URI.</p>
 * @param name The feature name, which is an absolute URI.
 * @return The current state of the feature (true or false).
 */

public boolean getFeature(String name) {
    if (name.equals(SAXSource.FEATURE)) return true;
    if (name.equals(SAXResult.FEATURE)) return true;
    if (name.equals(DOMSource.FEATURE)) return isDOMAvailable();
    if (name.equals(DOMResult.FEATURE)) return isDOMAvailable();
    if (name.equals(StreamSource.FEATURE)) return true;
    if (name.equals(StreamResult.FEATURE)) return true;
    if (name.equals(SAXTransformerFactory.FEATURE)) return true;
    if (name.equals(SAXTransformerFactory.FEATURE_XMLFILTER)) return true;
    if (name.equals(FEATURE_SECURE_PROCESSING)) {
        return !config.isAllowExternalFunctions();
    }
}

```

```

    }
    throw new IllegalArgumentException("Unknown feature " + name);
}

/**
 * Test whether DOM processing is available
 * @return true if DOM processing is available, that is, if the class net.sf.saxon.dom.DOMObjectModel
 * can be loaded, which will be the case if saxon9-dom.jar is on the classpath
 */

private boolean isDOMAvailable() {
    List models = config.getExternalObjectModels();
    for (int i=0; i<models.size(); i++) {
        if (models.get(i).getClass().getName().equals("net.sf.saxon.dom.DOMObjectModel")) {
            return true;
        }
    }
    return false;
}

/**
 * Allows the user to set specific attributes on the underlying
 * implementation. An attribute in this context is defined to
 * be an option that the implementation provides.
 *
 * @param name The name of the attribute. This must be one of the constants
 * defined in class { @link net.sf.saxon.FeatureKeys}.
 * @param value The value of the attribute.
 * @throws IllegalArgumentException thrown if Saxon
 * doesn't recognize the attribute.
 * @see net.sf.saxon.FeatureKeys
 */

public void setAttribute(String name, Object value) throws IllegalArgumentException {
    if (name.equals(FeatureKeys.CONFIGURATION)) {
        config = (Configuration)value;
    } else {
        config.setConfigurationProperty(name, value);
    }
}

/**
 * Allows the user to retrieve specific attributes on the underlying
 * implementation.
 *
 * @param name The name of the attribute. This must be one of the constants
 * defined in class { @link net.sf.saxon.FeatureKeys}.
 * @return value The value of the attribute.
 * @throws IllegalArgumentException thrown if the underlying

```



```

* implementation doesn't recognize the attribute.
*/
public Object getAttribute(String name) throws IllegalArgumentException{
    if (name.equals(FeatureKeys.CONFIGURATION)) {
        return config;
    } else {
        return config.getConfigurationProperty(name);
    }
}

/**
 * Set the error event listener for the TransformerFactory, which
 * is used for the processing of transformation instructions,
 * and not for the transformation itself.
 *
 * @param listener The new error listener.
 * @throws IllegalArgumentException if listener is null.
 */

public void setErrorListener(ErrorListener listener)
    throws IllegalArgumentException {
    config.setErrorListener(listener);
}

/**
 * Get the error event handler for the TransformerFactory.
 * @return The current error listener, which should never be null.
 */

public ErrorListener getErrorListener() {
    return config.getErrorListener();
}

////////////////////////////////////
// Methods defined in class javax.xml.transform.sax.SAXTransformerFactory
////////////////////////////////////

/**
 * Get a TransformerHandler object that can process SAX
 * ContentHandler events into a Result, based on the transformation
 * instructions specified by the argument.
 *
 * @param src The Source of the transformation instructions.
 *
 * @return TransformerHandler ready to transform SAX events.
 */

```

```
* @throws TransformerConfigurationException If for some reason the
* TransformerHandler can not be created.
*/
```

```
public TransformerHandler newTransformerHandler(Source src)
throws TransformerConfigurationException {
    Templates tmpl = new Templates(src);
    return new TransformerHandler(tmpl);
}
```

```
/**
 * Get a TransformerHandler object that can process SAX
 * ContentHandler events into a Result, based on the Templates argument.
 *
 * @param templates The compiled transformation instructions.
 *
 * @return TransformerHandler ready to transform SAX events.
 *
 * @throws TransformerConfigurationException If for some reason the
 * TransformerHandler can not be created.
 */
```

```
public TransformerHandler newTransformerHandler(Templates templates)
throws TransformerConfigurationException {
    if (!(templates instanceof PreparedStylesheet)) {
        throw new TransformerConfigurationException("Templates object was not created by Saxon");
    }
    Controller controller = (Controller)templates.newTransformer();
    return new TransformerHandlerImpl(controller);
}
```

```
/**
 * Get a TransformerHandler object that can process SAX
 * ContentHandler events into a Result. The transformation
 * is defined as an identity (or copy) transformation, for example
 * to copy a series of SAX parse events into a DOM tree.
 *
 * @return A non-null reference to a TransformerHandler, that may
 * be used as a ContentHandler for SAX parse events.
 *
 * @throws TransformerConfigurationException If for some reason the
 * TransformerHandler cannot be created.
 */
```

```
public TransformerHandler newTransformerHandler()
throws TransformerConfigurationException {
    Controller controller = new IdentityTransformer(config);
    return new IdentityTransformerHandler(controller);
}
```

```

}

/**
 * Get a TemplatesHandler object that can process SAX
 * ContentHandler events into a Templates object.
 *
 * @return A non-null reference to a TransformerHandler, that may
 * be used as a ContentHandler for SAX parse events.
 *
 * @throws TransformerConfigurationException If for some reason the
 * TemplatesHandler cannot be created.
 */

public TemplatesHandler newTemplatesHandler()
throws TransformerConfigurationException {
    return new TemplatesHandlerImpl(config);
}

/**
 * Create an XMLFilter that uses the given Source as the
 * transformation instructions.
 *
 * @param src The Source of the transformation instructions.
 *
 * @return An XMLFilter object, or null if this feature is not supported.
 *
 * @throws TransformerConfigurationException If for some reason the
 * XMLFilter cannot be created.
 */

public XMLFilter newXMLFilter(Source src)
throws TransformerConfigurationException {
    Templates tmpl = new Templates(src);
    return new XMLFilter(tmpl);
}

/**
 * Create an XMLFilter, based on the Templates argument..
 *
 * @param templates The compiled transformation instructions.
 *
 * @return An XMLFilter object, or null if this feature is not supported.
 *
 * @throws TransformerConfigurationException If for some reason the
 * XMLFilter cannot be created.
 */

public XMLFilter newXMLFilter(Templates templates)

```

```

throws TransformerConfigurationException {
    if (!(templates instanceof PreparedStylesheet)) {
        throw new TransformerConfigurationException("Supplied Templates object was not created using Saxon");
    }
    Controller controller = (Controller)templates.newTransformer();
    return new Filter(controller);
}
}

/**
 * <p>Set a feature for this <code>TransformerFactory</code> and <code>Transformer</code>s
 * or <code>Template</code>s created by this factory.</p>
 * <p/>
 * <p/>
 * Feature names are fully qualified { @link java.net.URI}s.
 * Implementations may define their own features.
 * An { @link javax.xml.transform.TransformerConfigurationException } is thrown if this
<code>TransformerFactory</code> or the
 * <code>Transformer</code>s or <code>Template</code>s it creates cannot support the feature.
 * It is possible for an <code>TransformerFactory</code> to expose a feature value but be unable to change its
state.
 * <p/>
 * <p/>
 * <p>All implementations are required to support the FEATURE_SECURE_PROCESSING feature.
 * When the feature is:</p>
 * <ul>
 * <li>
 * <code>true</code>: the implementation will limit XML processing to conform to implementation limits
 * and behave in a secure fashion as defined by the implementation.
 * Examples include resolving user defined style sheets and functions.
 * If XML processing is limited for security reasons, it will be reported via a call to the registered
 * { @link javax.xml.transform.ErrorListener#fatalError(javax.xml.transform.TransformerException exception)}.
 * See { @link #setErrorListener(javax.xml.transform.ErrorListener listener)}. In the Saxon implementation,
 * this option causes calls on extension functions and extensions instructions to be disabled, and also
 * disables the use of xsl:result-document to write to secondary output destinations.
 * </li>
 * <li>
 * <code>false</code>: the implementation will processing XML according to the XML specifications without
 * regard to possible implementation limits.
 * </li>
 * </ul>
 *
 * @param name Feature name.
 * @param value Is feature state <code>true</code> or <code>false</code>.
 * @throws javax.xml.transform.TransformerConfigurationException
 *         if this <code>TransformerFactory</code>
 *         or the <code>Transformer</code>s or <code>Template</code>s it creates cannot support this
feature.
 * @throws NullPointerException If the <code>name</code> parameter is null.

```

```

*/

public void setFeature(String name, boolean value) throws TransformerConfigurationException {
    if (name.equals(FEATURE_SECURE_PROCESSING)) {
        config.setAllowExternalFunctions(!value);
    } else {
        throw new TransformerConfigurationException("Unsupported TransformerFactory feature: " + name);
    }
}

}

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//
// Contributor(s): none.
//
package net.sf.saxon.expr;

import net.sf.saxon.Controller;
import net.sf.saxon.trace.ExpressionPresenter;
import net.sf.saxon.value.Value;
import net.sf.saxon.event.SequenceOutputter;
import net.sf.saxon.event.PipelineConfiguration;
import net.sf.saxon.om.*;
import net.sf.saxon.trans.XPathException;
import net.sf.saxon.type.ItemType;
import net.sf.saxon.type.Type;
import net.sf.saxon.type.TypeHierarchy;

import java.util.Arrays;
import java.util.Iterator;

/**
 * An abstract implementation of Expression designed to make it easy to implement new expressions,

```

```

* in particular, expressions to support extension instructions.
*/

public abstract class SimpleExpression extends Expression {

    public static final Expression[] NO_ARGUMENTS = new Expression[0];

    protected Expression[] arguments = NO_ARGUMENTS;

    /**
     * Constructor
     */

    public SimpleExpression() {
    }

    /**
     * Set the immediate sub-expressions of this expression.
     * @param sub an array containing the sub-expressions of this expression
     */

    public void setArguments(Expression[] sub) {
        arguments = sub;
        for (int i=0; i<sub.length; i++) {
            adoptChildExpression(sub[i]);
        }
    }

    /**
     * Get the immediate sub-expressions of this expression.
     * @return an array containing the sub-expressions of this expression
     */

    public Iterator iterateSubExpressions() {
        return Arrays.asList(arguments).iterator();
    }

    /**
     * Replace one subexpression by a replacement subexpression
     * @param original the original subexpression
     * @param replacement the replacement subexpression
     * @return true if the original subexpression is found
     */

    public boolean replaceSubExpression(Expression original, Expression replacement) {
        boolean found = false;
        for (int i=0; i<arguments.length; i++) {
            if (arguments[i] == original) {

```

```

        arguments[i] = replacement;
        found = true;
    }
}
return found;
}

/**
 * Simplify the expression
 * @return the simplified expression
 * @param visitor an expression visitor
 */

public Expression simplify(ExpressionVisitor visitor) throws XPathException {
    for (int i = 0; i < arguments.length; i++) {
        if (arguments[i] != null) {
            arguments[i] = visitor.simplify(arguments[i]);
        }
    }
    return this;
}

public Expression typeCheck(ExpressionVisitor visitor, ItemType contextItemType) throws XPathException {
    for (int i = 0; i < arguments.length; i++) {
        if (arguments[i] != null) {
            arguments[i] = visitor.typeCheck(arguments[i], contextItemType);
        }
    }
    return this;
}

public Expression optimize(ExpressionVisitor visitor, ItemType contextItemType) throws XPathException {
    for (int i = 0; i < arguments.length; i++) {
        if (arguments[i] != null) {
            arguments[i] = visitor.optimize(arguments[i], contextItemType);
        }
    }
    return this;
}

/**
 * Copy an expression. This makes a deep copy.
 *
 * @return the copy of the original expression
 */

```

```

public Expression copy() {
    throw new UnsupportedOperationException("copy");
}

/**
 * Offer promotion for this subexpression. The offer will be accepted if the subexpression
 * is not dependent on the factors (e.g. the context item) identified in the PromotionOffer.
 * By default the offer is not accepted - this is appropriate in the case of simple expressions
 * such as constant values and variable references where promotion would give no performance
 * advantage. This method is always called at compile time.
 *
 * @param offer details of the offer, for example the offer to move
 * expressions that don't depend on the context to an outer level in
 * the containing expression
 * @exception XPathException if any error is detected
 * @return if the offer is not accepted, return this expression unchanged.
 * Otherwise return the result of rewriting the expression to promote
 * this subexpression
 */

public Expression promote(PromotionOffer offer) throws XPathException {
    for (int i = 0; i < arguments.length; i++) {
        if (arguments[i] != null) {
            arguments[i] = doPromotion(arguments[i], offer);
        }
    }
    return this;
}

/**
 * Determine the data type of the items returned by this expression. This implementation
 * returns "item()", which can be overridden in a subclass.
 * @return the data type
 * @param th the type hierarchy cache
 */

public ItemType getItemType(TypeHierarchy th) {
    return Type.ITEM_TYPE;
}

/**
 * Determine the static cardinality of the expression. This implementation
 * returns "zero or more", which can be overridden in a subclass.
 */

public int computeCardinality() {
    if ((getImplementationMethod() & Expression.EVALUATE_METHOD) == 0) {

```



```

        return StaticProperty.ALLOWS_ONE_OR_MORE;
    } else {
        return StaticProperty.ALLOWS_ZERO_OR_ONE;
    }
}

/**
 * Compute the dependencies of an expression, as the union of the
 * dependencies of its subexpressions. (This is overridden for path expressions
 * and filter expressions, where the dependencies of a subexpression are not all
 * propogated). This method should be called only once, to compute the dependencies;
 * after that, getDependencies should be used.
 * @return the dependencies, as a bit-mask
 */

public int computeDependencies() {
    return super.computeDependencies();
}

/**
 * Evaluate an expression as a single item. This always returns either a single Item or
 * null (denoting the empty sequence). No conversion is done. This method should not be
 * used unless the static type of the expression is a subtype of "item" or "item?": that is,
 * it should not be called if the expression may return a sequence. There is no guarantee that
 * this condition will be detected.
 *
 * @param context The context in which the expression is to be evaluated
 * @exception XPathException if any dynamic error occurs evaluating the
 *     expression
 * @return the node or atomic value that results from evaluating the
 *     expression; or null to indicate that the result is an empty
 *     sequence
 */

public Item evaluateItem(XPathContext context) throws XPathException {
    int m = getImplementationMethod();
    if ((m & Expression.EVALUATE_METHOD) != 0) {
        // this indicates an error in the user-written extension code
        throw new AssertionError("evaluateItem() is not implemented in the subclass " + this.getClass());
    } else if ((m & Expression.ITERATE_METHOD) != 0) {
        return iterate(context).next();
    } else {
        Controller controller = context.getController();
        XPathContext c2 = context.newMinorContext();
        c2.setOrigin(this);
        SequenceOutputter seq = controller.allocateSequenceOutputter(1);
        PipelineConfiguration pipe = controller.makePipelineConfiguration();
        pipe.setHostLanguage(getContainer().getHostLanguage());
    }
}

```

```

        seq.setPipelineConfiguration(pipe);
        c2.setTemporaryReceiver(seq);
        process(c2);
        Item item = seq.getFirstItem();
        seq.reset();
        return item;
    }
}

/**
 * Return an Iterator to iterate over the values of a sequence. The value of every
 * expression can be regarded as a sequence, so this method is supported for all
 * expressions. This default implementation handles iteration for expressions that
 * return singleton values: for non-singleton expressions, the subclass must
 * provide its own implementation.
 *
 * @exception XPathException if any dynamic error occurs evaluating the
 *     expression
 * @param context supplies the context for evaluation
 * @return a SequenceIterator that can be used to iterate over the result
 *     of the expression
 */

public SequenceIterator iterate(XPathContext context) throws XPathException {
    int m = getImplementationMethod();
    if ((m & Expression.EVALUATE_METHOD) != 0) {
        Item item = evaluateItem(context);
        if (item==null) {
            return EmptyIterator.getInstance();
        } else {
            return SingletonIterator.makeIterator(item);
        }
    } else if ((m & Expression.ITERATE_METHOD) != 0) {
        // this indicates an error in the user-written extension code
        throw new AssertionError("iterate() is not implemented in the subclass " + this.getClass());
    } else {
        Controller controller = context.getController();
        XPathContext c2 = context.newMinorContext();
        c2.setOrigin(this);
        SequenceOutputter seq = controller.allocateSequenceOutputter(10);
        PipelineConfiguration pipe = controller.makePipelineConfiguration();
        pipe.setHostLanguage(getContainer().getHostLanguage());
        seq.setPipelineConfiguration(pipe);
        c2.setTemporaryReceiver(seq);

        process(c2);
    }
}

```

```

        SequenceIterator result = Value.getIterator(seq.getSequence());
        seq.reset();
        return result;
    }
}

/**
 * Process the instruction, without returning any tail calls
 * @param context The dynamic context, giving access to the current node,
 * the current variables, etc.
 */

public void process(XPathContext context) throws XPathException {
    int m = getImplementationMethod();
    if ((m & Expression.EVALUATE_METHOD) == 0) {
        SequenceIterator iter = iterate(context);
        while (true) {
            Item it = iter.next();
            if (it==null) break;
            context.getReceiver().append(it, locationId, NodeInfo.ALL_NAMESPACES);
        }
    } else {
        Item item = evaluateItem(context);
        context.getReceiver().append(item, locationId, NodeInfo.ALL_NAMESPACES);
    }
}

/**
 * Diagnostic print of expression structure. The abstract expression tree
 * is written to the supplied output destination.
 */

public void explain(ExpressionPresenter destination) {
    destination.startElement("userExpression");
    destination.emitAttribute("class", getExpressionType());
    for (int i = 0; i < arguments.length; i++) {
        arguments[i].explain(destination);
    }
    destination.endElement();
}

/**
 * Return a distinguishing name for the expression, for use in diagnostics.
 * By default the class name is used.
 * @return a distinguishing name for the expression (defaults to the name of the implementation class)
 */

public String getExpressionType() {

```

```

        return getClass().getName();
    }

}

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//
package net.sf.saxon.xpath;
import net.sf.saxon.Configuration;
import net.sf.saxon.expr.*;
import net.sf.saxon.functions.NumberFn;
import net.sf.saxon.instruct.SlotManager;
import net.sf.saxon.instruct.Executable;
import net.sf.saxon.om.*;
import net.sf.saxon.pattern.NodeTest;
import net.sf.saxon.sort.AtomicComparer;
import net.sf.saxon.sort.SortKeyDefinition;
import net.sf.saxon.sort.SortKeyEvaluator;
import net.sf.saxon.sort.SortedIterator;
import net.sf.saxon.trans.XPathException;
import net.sf.saxon.value.*;
import org.xml.sax.InputSource;

import javax.xml.namespace.QName;
import javax.xml.transform.sax.SAXSource;
import javax.xml.xpath.XPathConstants;
import javax.xml.xpath.XPathExpression;
import javax.xml.xpath.XPathExpressionException;
import java.util.List;

/**
 * <p>The JAXP XPathExpression interface represents a compiled XPath expression that can be repeatedly
 * evaluated. This class is Saxon's implementation of that interface.</p>

```

```

*
* <p>The class also includes some methods retained from Saxon's original XPath API. When these methods
* are used, the object contains the context node and other state, so it is not thread-safe.</p>
*
* @author Michael H. Kay
*/

```

```

public class XPathExpressionImpl implements XPathExpression, SortKeyEvaluator {

```

```

    private Configuration config;
    private Executable executable;
    private Expression expression;
    private Expression atomizer;
    private NodeInfo contextNode;
    private SlotManager stackFrameMap;
    private XPathExpressionImpl sortKey = null;

```

```

/**
 * The constructor is protected, to ensure that instances can only be
 * created using the createExpression() method of XPathEvaluator
 * @param exp the compiled expression
 * @param exec the executable
 */

```

```

protected XPathExpressionImpl(Expression exp, Executable exec) {
    expression = exp;
    executable = exec;
    config = exec.getConfiguration();
}

```

```

/**
 * Define the number of slots needed for local variables within the expression.
 * This method is for internal use only.
 * @param map description of the stack frame
 */

```

```

protected void setStackFrameMap(SlotManager map) {
    stackFrameMap = map;
}

```

```

/**
 * Get the stack frame map. This holds information about the allocation of slots to variables.
 * This is needed by applications using low-level interfaces for evaluating the expression
 * @return a description of the stack frame
 */

```

```

public SlotManager getStackFrameMap() {

```

```

    return stackFrameMap;
}

/**
 * Get the Configuration under which this XPath expression was compiled
 * @return the Saxon configuration
 */

public Configuration getConfiguration() {
    return config;
}

/**
 * Define the sort order for the results of the expression. If this method is called, then
 * the list returned by a subsequent call on the evaluate() method will first be sorted.
 * @param sortKey an XPathExpression, which will be applied to each item in the sequence;
 * the result of this expression determines the ordering of the list returned by the evaluate()
 * method. The sortKey can be null, to clear a previous sort key. Note that the expression is
 * not automatically atomized; if it selects nodes, these should be explicitly converted to
 * atomic values by calling the string() or data() functions.
 * @deprecated since 9.0. This method is not present in the JAXP interface. The recommended
 * way to get a sorted result is to use XQuery instead of XPath.
 */

public void setSortKey(XPathExpressionImpl sortKey) {
    this.sortKey = sortKey;
}

/**
 * Set the context node for evaluating the expression. If this method is not called,
 * the context node will be the root of the document to which the prepared expression is
 * bound.
 * @param node the context node
 * @deprecated since 9.0. Using this method is not thread-safe. Use a method instead
 * such as {@link #evaluate(Object, QName)} that allows the context node to be specified
 * as a parameter to the call.
 */

public void setContextNode(NodeInfo node) {
    if (node==null) {
        throw new NullPointerException("Context node cannot be null");
    }
    if (node.getConfiguration() != config) {
        throw new IllegalArgumentException("Supplied node uses the wrong Configuration");
    }
    contextNode = node;
}

```

```

/**
 * Protected, undeprecated version of setContextNode() for use by deprecated paths within the package
 * (exists to avoid deprecation warnings when compiling Saxon)
 * @param node the context node
 */

protected void privatelySetContextNode(NodeInfo node) {
    if (node==null) {
        throw new NullPointerException("Context node cannot be null");
    }
    if (node.getConfiguration() != config) {
        throw new IllegalArgumentException("Supplied node uses the wrong Configuration");
    }
    contextNode = node;
}

/**
 * Execute a prepared XPath expression, returning the results as a List. The context
 * node must have been set previously using { @link #setContextNode(net.sf.saxon.om.NodeInfo)}.
 * @return The results of the expression, as a List. The List represents the sequence
 * of items returned by the expression. Each item in the list will either be an instance
 * of net.sf.saxon.om.NodeInfo, representing a node, or a Java object representing an atomic value.
 * For the types of Java object that may be returned, see { @link #evaluate(Object, javax.xml.namespace.QName)}
 * with the second argument set to NODESET.
 * @deprecated since 9.0. This method is not present in the JAXP interface. Either use
 * the JAXP methods such as { @link #evaluate(Object, QName)}, or use the Saxon XPath
 * API instead of JAXP.
 */

public List evaluate() throws XPathException {
    XPathContextMajor context = new XPathContextMajor(contextNode, executable);
    context.openStackFrame(stackFrameMap);
    SequenceIterator iter = expression.iterate(context);
    SequenceExtent extent = new SequenceExtent(iter);
    return (List)PJConverter.ToCollection.INSTANCE.convert(extent, List.class, context);
}

/**
 * Execute a prepared XPath expression, returning the first item in the result.
 * This is useful where it is known that the expression will only return
 * a singleton value (for example, a single node, or a boolean). The context node
 * must be set previously using { @link #setContextNode(net.sf.saxon.om.NodeInfo)}.
 * @return The first item in the sequence returned by the expression. If the expression
 * returns an empty sequence, this method returns null. Otherwise, it returns the first
 * item in the result sequence, represented as a Java object using the same mapping as for
 * the evaluate() method
 * @deprecated since 9.0. This method is not present in the JAXP interface. Either use

```

```
* the JAXP methods such as {@link #evaluate(Object, QName)}, or use the Saxon XPath
* API instead of JAXP.
*/
```

```
public Object evaluateSingle() throws XPathException {
    XPathContextMajor context = new XPathContextMajor(contextNode, executable);
    context.openStackFrame(stackFrameMap);
    SequenceIterator iterator = expression.iterate(context);
    Item item = iterator.next();
    if (item == null) {
        return null;
    } else {
        return Value.convertToJava(item);
    }
}

/**
 * Get a raw iterator over the results of the expression. This returns results without
 * any conversion of the returned items to "native" Java classes. This method is intended
 * for use by applications that need to process the results of the expression using
 * internal Saxon interfaces.
 * @param contextItem the context item for evaluating the expression
 * @return an iterator over the results of the expression, with no conversion of returned items
 * @since 9.0
 */
```

```
public SequenceIterator rawIterator(Item contextItem) throws XPathException {
    XPathContextMajor context = new XPathContextMajor(contextItem, executable);
    return rawIterator(context);
}
```

```
private SequenceIterator rawIterator(XPathContextMajor context) throws XPathException {
    context.openStackFrame(stackFrameMap);
    SequenceIterator iterator = expression.iterate(context);
    if (sortKey != null) {
        Expression key = sortKey.expression;
        if (key.getItemType(config.getTypeHierarchy()) instanceof NodeTest) {
            sortKey.expression = new Atomizer(key, config);
        }

        SortKeyDefinition sk = new SortKeyDefinition();
        sk.setSortKey(sortKey.expression);
        AtomicComparer comp = sk.makeComparator(context);
        AtomicComparer[] comps = {comp};

        iterator = new SortedIterator(context, iterator, this, comps);
        ((SortedIterator)iterator).setHostLanguage(Configuration.XPATH);
    }
}
```



```

return iterator;
}

/**
 * JAXP 1.3 evaluate() method
 * @param node The context node. This must use a representation of nodes that this implementation understands.
 * This may be a Saxon NodeInfo, or a node in one of the external object models supported, for example
 * DOM, DOM4J, JDOM, or XOM, provided the support module for that object model is loaded.
 *
 * <p><b>Contrary to the interface specification, Saxon does not supply an empty
 * document when the value is null. This is because Saxon supports multiple object models,
 * and it's unclear what kind of document node would be appropriate. Instead, Saxon uses
 * the node supplied to the { @link #setContextNode } method if available, and if none
 * is available, executes the XPath expression with the context item undefined.</p></p>
 * <p><b>Saxon does not allow a NodeList to be supplied for this parameter. It's not clear
 * what this would be intended to mean.</b></p>
 * @param qName Indicates the type of result required. This must be one of the constants defined in
 * the JAXP { @link XPathConstants } class.
 * Saxon will attempt to convert the actual result of the expression to the required type using the
 * XPath 1.0 conversion rules.
 * @return the result of the evaluation, as a Java object of the appropriate type. Saxon interprets the
 * rules as follows:
 * <table>
 * <thead><tr><td>QName</td><td>Return Value</td></thead>
 * <tbody>
 * <tr><td valign="top">BOOLEAN</td>
 * <td>The effective boolean value of the actual result,
 * as a Java Boolean object</td></tr>
 * <tr><td valign="top">STRING</td>
 * <td>The result of applying the string() function to the actual result,
 * as a Java String object</td></tr>
 * <tr><td valign="top">NUMBER</td>
 * <td>The result of applying the number() function to the actual result,
 * as a Java Double object</td></tr>
 * <tr><td valign="top">NODE</td>
 * <td>A single node, in the native data model supplied as input. If the
 * expression returns more than one node, the first is returned. If
 * the expression returns an empty sequence, null is returned. If the
 * expression returns an atomic value, or if the first item in the
 * result sequence is an atomic value, an exception is thrown.</td></tr>
 * <tr><td valign="top">NODESET</td>
 * <td>This is interpreted as allowing any sequence, of nodes or atomic values.
 * If the first argument is a wrapper around a DOM Node, then the result is
 * returned as a DOM NodeList, and an exception is then thrown if the result sequence
 * contains a value that is not a DOM Node. In all other cases
 * the result is returned as a Java List object, unless it is empty, in which
 * case null is returned. The contents of the list may be node objects (in the

```

```

* native data model supplied as input), or Java objects representing the XPath
* atomic values in the actual result: String for an xs:string, Double for a xs:double,
* Long for an xs:integer, and so on. (For safety, cast the values to a type
* such as xs:string within the XPath expression). </td></tr></table>
*
* @throws XPathExpressionException if evaluation of the expression fails or if the
* result cannot be converted to the requested type.
*/

```

```

public Object evaluate(Object node, QName qName) throws XPathExpressionException {
    NodeInfo contextNode = this.contextNode;
    if (node != null) {
        if (node instanceof SingletonNode) {
            node = ((SingletonNode)node).getNode();
        }
        if (node instanceof NodeInfo) {
            if (!((NodeInfo)node).getConfiguration().isCompatible(config)) {
                throw new XPathExpressionException(
                    "Supplied node must be built using the same or a compatible Configuration");
            }
            contextNode = ((NodeInfo)node);
        } else {
            JPCConverter converter = JPCConverter.allocate(node.getClass(), config);
            ValueRepresentation val;
            try {
                val = converter.convert(node, new EarlyEvaluationContext(config, null));
            } catch (XPathException e) {
                throw new XPathExpressionException(
                    "Failure converting a node of class " + node.getClass().getName() +
                    ": " + e.getMessage());
            }
            if (val instanceof NodeInfo) {
                contextNode = (NodeInfo)val;
            } else {
                throw new XPathExpressionException(
                    "Cannot locate an object model implementation for nodes of class "
                    + node.getClass().getName());
            }
        }
    }
    XPathContextMajor context = new XPathContextMajor(contextNode, executable);
    context.openStackFrame(stackFrameMap);
    try {
        if (qName.equals(XPathConstants.BOOLEAN)) {
            return Boolean.valueOf(expression.effectiveBooleanValue(context));
        } else if (qName.equals(XPathConstants.STRING)) {
            SequenceIterator iter = expression.iterate(context);

            Item first = iter.next();

```

```

    if (first == null) {
        return "";
    }
    return first.getStringValue();

} else if (qName.equals(XPathConstants.NUMBER)) {
    if (atomizer == null) {
        atomizer = new Atomizer(expression, config);
    }
    SequenceIterator iter = atomizer.iterate(context);

    Item first = iter.next();
    if (first == null) {
        return new Double(Double.NaN);
    }
    if (first instanceof NumericValue) {
        return new Double(((NumericValue)first).getDoubleValue());
    } else {
        DoubleValue v = NumberFn.convert((AtomicValue)first);
        return new Double(v.getDoubleValue());
    }

} else if (qName.equals(XPathConstants.NODE)) {
    SequenceIterator iter = expression.iterate(context);
    Item first = iter.next();
    if (first instanceof VirtualNode) {
        return ((VirtualNode)first).getUnderlyingNode();
    }
    if (first == null || first instanceof NodeInfo) {
        return first;
    }
    throw new XPathExpressionException("Expression result is not a node");
} else if (qName.equals(XPathConstants.NODESET)) {
    //SequenceIterator iter = expression.iterate(context);
    SequenceIterator iter = rawIterator(context);
    SequenceExtent extent = new SequenceExtent(iter);
    PJConverter converter = PJConverter.allocateNodeListCreator(config, node);
    return converter.convert(extent, Object.class, context);
} else {
    throw new IllegalArgumentException("qName: Unknown type for expected result");
}
} catch (XPathException e) {
    throw new XPathExpressionException(e);
}
}

/**
 * Evaluate the expression to return a string value

```

- \* @param node the initial context node. This must be either an instance of NodeInfo or a node recognized by a known external object model.
- \* <p><b>Contrary to the interface specification, Saxon does not supply an empty document when the value is null. This is because Saxon supports multiple object models, and it's unclear what kind of document node would be appropriate. Instead, Saxon uses the node supplied to the { @link #setContextNode } method if available, and if none is available, executes the XPath expression with the context item undefined.</p></p>
- \* @return the results of the expression, converted to a String
- \* @throws XPathExpressionException if evaluation fails

```
public String evaluate(Object node) throws XPathExpressionException {
    return (String)evaluate(node, XPathConstants.STRING);
}
```

/\*\*

- \* Evaluate the XPath expression against an input source to obtain a result of a specified type
- \* @param inputSource The input source document against which the expression is evaluated.
- \* (Note that there is no caching. This will be parsed, and the parsed result will be discarded.)
- \* If the supplied value is null then (contrary to the JAXP specifications), the XPath expression is evaluated with the context item undefined.
- \* @param qName The type required, identified by a constant in { @link XPathConstants }
- \* @return the result of the evaluation, as a Java object of the appropriate type:
- \* see { @link #evaluate(Object, javax.xml.namespace.QName) }
- \* @throws XPathExpressionException

```
public Object evaluate(InputSource inputSource, QName qName) throws XPathExpressionException {
    if (qName == null) {
        throw new NullPointerException("qName");
    }
    try {
        NodeInfo doc = null;
        if (inputSource != null) {
            doc = config.buildDocument(new SAXSource(inputSource));
        }
        return evaluate(doc, qName);
    } catch (XPathException e) {
        throw new XPathExpressionException(e);
    }
}
```

/\*\*

- \* Evaluate the XPath expression against an input source to obtain a string result
- \* @param inputSource The input source document against which the expression is evaluated.
- \* (Note that there is no caching. This will be parsed, and the parsed result will be discarded.)
- \* @return the result of the evaluation, converted to a String
- \* @throws XPathExpressionException in the event of an XPath dynamic error
- \* @throws NullPointerException If <code>inputSource</code> is <code>null</code>.

```

*/

public String evaluate(InputSource inputSource) throws XPathExpressionException {
    if (inputSource == null) {
        throw new NullPointerException("inputSource");
    }
    try {
        NodeInfo doc = config.buildDocument(new SAXSource(inputSource));
        return (String)evaluate(doc, XPathConstants.STRING);
    } catch (XPathException e) {
        throw new XPathExpressionException(e);
    }
}

/**
 * Callback for evaluating the sort keys. For internal use only.
 */

public Item evaluateSortKey(int n, XPathContext c) throws XPathException {
    return sortKey.getInternalExpression().evaluateItem(c);
}

/**
 * Low-level method to get the internal Saxon expression object. This exposes a wide range of
 * internal methods that may be needed by specialized applications, and allows greater control
 * over the dynamic context for evaluating the expression.
 * @return the underlying Saxon expression object.
 */

public Expression getInternalExpression() {
    return expression;
}

}

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// The Initial Developer of the Original Code is

```

```

// Michael H. Kay.
//
// Contributor(s):
//
package net.sf.saxon.xpath;

import net.sf.saxon.Configuration;
import net.sf.saxon.FeatureKeys;
import net.sf.saxon.om.NamespaceConstant;
import net.sf.saxon.om.Validation;

import javax.xml.XMLConstants;
import javax.xml.xpath.*;

/**
 * Saxon implementation of the JAXP 1.3 XPathFactory
 */
public class XPathFactoryImpl extends XPathFactory {

    private Configuration config;
    private XPathVariableResolver variableResolver;
    private XPathFunctionResolver functionResolver;

    /**
     * Default constructor: this creates a Configuration as well as creating the XPathFactory. Any documents
     * accessed using this XPathFactory must be built using this same Configuration.
     */
    public XPathFactoryImpl() {
        config = makeConfiguration();
    }

    /**
     * Constructor using a user-supplied Configuration.
     * This constructor is useful if the document to be queried already exists, as it allows the configuration
     * associated with the document to be used with this XPathFactory.
     * @param config the Saxon configuration
     */
    public XPathFactoryImpl(Configuration config) {
        this.config = config;
    }

    protected Configuration makeConfiguration() {
        return new Configuration();
    }
}

```

```

* Get the Configuration object used by this XPathFactory
* @return the Saxon configuration
*/

public Configuration getConfiguration() {
    return config;
}

/**
* Test whether a given object model is supported. Returns true if the object model
* is the Saxon object model, DOM, JDOM, DOM4J, or XOM
* @param model The URI identifying the object model.
* @return true if the object model is one of the following (provided that the supporting
* JAR file is available on the classpath)
* {@link NamespaceConstant#OBJECT_MODEL_SAXON},
* {@link XPathConstants#DOM_OBJECT_MODEL},
* {@link NamespaceConstant#OBJECT_MODEL_JDOM}, or
* {@link NamespaceConstant#OBJECT_MODEL_XOM}, or
* {@link NamespaceConstant#OBJECT_MODEL_DOM4J}.
* Saxon also allows user-defined external object models to be registered with the Configuration, and
* this method will return true in respect of any such model.
*/
public boolean isObjectModelSupported(String model) {
    boolean debug = System.getProperty("jaxp.debug") != null;
    if (debug) {
        System.err.println("JAXP: Calling " + getClass().getName() + ".isObjectModelSupported(\"" + model +
"\");");
        System.err.println("JAXP: -- returning " + silentIsObjectModelSupported(model));
    }
    return silentIsObjectModelSupported(model);
}

private boolean silentIsObjectModelSupported(String model) {
    return model.equals(NamespaceConstant.OBJECT_MODEL_SAXON) ||
config.getExternalObjectModel(model) != null;
}

/**
* Set a feature of this XPath implementation. The only features currently
* recognized are:
* <ul>
* <li> {@link XMLConstants#FEATURE_SECURE_PROCESSING} </li>
* <li> {@link net.sf.saxon.FeatureKeys#SCHEMA_VALIDATION}; requests schema validation of source
documents.
* The property is rejected if the configuration is not schema-aware. </li>
* </ul>
* @param feature a URI identifying the feature
* @param b true to set the feature on, false to set it off

```

```

* @throws XPathFactoryConfigurationException if the feature name is not recognized
*/

public void setFeature(String feature, boolean b) throws XPathFactoryConfigurationException {
    if (feature.equals(FEATURE_SECURE_PROCESSING)) {
        config.setAllowExternalFunctions(!b);
    } else if (feature.equals(FeatureKeys.SCHEMA_VALIDATION)) {
        config.setSchemaValidationMode(b ? Validation.STRICT : Validation.STRIP);
    } else {
        throw new XPathFactoryConfigurationException("Unknown feature: " + feature);
    }
}

/**
 * Get a feature of this XPath implementation. The only features currently
 * recognized are:
 * <ul>
 * <li> { @link #FEATURE_SECURE_PROCESSING} </li>
 * <li> { @link net.sf.saxon.FeatureKeys#SCHEMA_VALIDATION}; requests schema validation of source
documents. </li>
 * </ul>
 * @param feature a URI identifying the feature
 * @return true if the feature is on, false if it is off
 * @throws XPathFactoryConfigurationException if the feature name is not recognized
 */

public boolean getFeature(String feature) throws XPathFactoryConfigurationException {
    if (feature.equals(FEATURE_SECURE_PROCESSING)) {
        return !config.isAllowExternalFunctions();
    } else if (feature.equals(FeatureKeys.SCHEMA_VALIDATION)) {
        return config.getSchemaValidationMode() == Validation.STRICT;
    } else {
        throw new XPathFactoryConfigurationException("Unknown feature: " + feature);
    }
}

/**
 * Set a resolver for XPath variables. This will be used to obtain the value of
 * any variable referenced in an XPath expression. The variable resolver must be allocated
 * before the expression is compiled, but it will only be called when the expression
 * is evaluated.
 * @param xPathVariableResolver The object used to resolve references to variables.
 */

public void setXPathVariableResolver(XPathVariableResolver xPathVariableResolver) {
    variableResolver = xPathVariableResolver;
}

/**

```



```

* Set a resolver for XPath functions. This will be used to obtain an implementation
* of any external function referenced in an XPath expression. This is not required for
* system functions, Saxon extension functions, constructor functions named after types,
* or extension functions bound using a namespace that maps to a Java class.
* @param xpathFunctionResolver The object used to resolve references to external functions.
*/

public void setXPathFunctionResolver(XPathFunctionResolver xpathFunctionResolver) {
    functionResolver = xpathFunctionResolver;
}

/**
 * Create an XPath evaluator
 * @return an XPath object, which can be used to compile and execute XPath expressions.
 */
public XPath newXPath() {
    XPathEvaluator xpath = new XPathEvaluator(config);
    xpath.setXPathFunctionResolver(functionResolver);
    xpath.setXPathVariableResolver(variableResolver);
    return xpath;
}

private static String FEATURE_SECURE_PROCESSING = "http://javax.xml.XMLConstants/feature/secure-
processing";
    // XMLConstants.FEATURE_SECURE_PROCESSING in JDK 1.5

}

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//
package net.sf.saxon.tree;
import net.sf.saxon.event.Receiver;
import net.sf.saxon.om.*;

```

```

import net.sf.saxon.trans.XPathException;
import net.sf.saxon.type.Type;
import net.sf.saxon.type.TypeHierarchy;

/**
 * A node in the "linked" tree representing an attribute. Note that this is
 * generated only "on demand", when the attribute is selected by a path expression.<P>
 * @author Michael H. Kay
 */

final class AttributeImpl extends NodeImpl {

    private int nameCode;
    private int typeCode;
    private String value;

    /**
     * Construct an Attribute node for the n'th attribute of a given element
     * @param element The element containing the relevant attribute
     * @param index The index position of the attribute starting at zero
     */

    public AttributeImpl(ElementImpl element, int index) {
        parent = element;
        this.index = index;
        AttributeCollection atts = element.getAttributeList();
        this.nameCode = atts.getNameCode(index);
        this.value = atts.getValue(index);
        this.typeCode = atts.getTypeAnnotation(index);
    }

    /**
     * Get the name code, which enables the name to be located in the name pool
     */

    public int getNameCode() {
        return nameCode;
    }

    /**
     * Get the type annotation of this node, if any
     */

    public int getTypeAnnotation() {
        return typeCode;
    }

    /**

```

```

* Determine whether this node has the is-id property
* @return true if the node is an ID
*/

public boolean isId() {
    if (getFingerprint() == StandardNames.XML_ID) {
        return true;
    }
    TypeHierarchy th = getConfiguration().getTypeHierarchy();
    return th.isIdCode(typeCode);
}

/**
* Determine whether this node has the is-idref property
* @return true if the node is an IDREF or IDREFS element or attribute
*/

public boolean isIdref() {
    TypeHierarchy th = getConfiguration().getTypeHierarchy();
    return th.isIdrefsCode(typeCode);
}

/**
* Determine whether the node has the is-nilled property
* @return true if the node has the is-nilled property
*/

public boolean isNilled() {
    return false;
}

/**
* Determine whether this is the same node as another node
* @return true if this Node object and the supplied Node object represent the
* same node in the tree.
*/

public boolean isSameNodeInfo(NodeInfo other) {
    if (!(other instanceof AttributeImpl)) return false;
    if (this==other) return true;
    AttributeImpl otherAtt = (AttributeImpl)other;
    return (parent.isSameNodeInfo(otherAtt.parent) &&
        ((nameCode&0xffff)==(otherAtt.nameCode&0xffff)));
}

/**
* The hashCode() method obeys the contract for hashCode(): that is, if two objects are equal
* (represent the same node) then they must have the same hashCode()

```

```
* @since 8.7 Previously, the effect of the equals() and hashCode() methods was not defined. Callers
* should therefore be aware that third party implementations of the NodeInfo interface may
* not implement the correct semantics.
*/
```

```
public int hashCode() {
    return parent.hashCode() ^ getFingerprint();
}
```

```
/**
 * Get the node sequence number (in document order). Sequence numbers are monotonic but not
 * consecutive. In the current implementation, parent nodes (elements and roots) have a zero
 * least-significant word, while namespaces, attributes, text nodes, comments, and PIs have
 * the top word the same as their owner and the bottom half reflecting their relative position.
 */
```

```
protected long getSequenceNumber() {
    long parseq = parent.getSequenceNumber();
    return (parseq == -1L ? parseq : parseq + 0x8000 + index);
    // note the 0x8000 is to leave room for namespace nodes
}
```

```
/**
 * Return the type of node.
 * @return Node.ATTRIBUTE
 */
```

```
public final int getNodeKind() {
    return Type.ATTRIBUTE;
}
```

```
/**
 * Return the character value of the node.
 * @return the attribute value
 */
```

```
public String getStringValue() {
    return value;
}
```

```
/**
 * Get next sibling - not defined for attributes
 */
```

```
public NodeInfo getNextSibling() {
    return null;
}
```

```

/**
 * Get previous sibling - not defined for attributes
 */

public NodeInfo getPreviousSibling() {
    return null;
}

/**
 * Get the previous node in document order (skipping attributes)
 */

public NodeImpl getPreviousInDocument() {
    return (NodeImpl)getParent();
}

/**
 * Get the next node in document order (skipping attributes)
 */

public NodeImpl getNextInDocument(NodeImpl anchor) {
    if (anchor==this) return null;
    return ((NodeImpl)getParent()).getNextInDocument(anchor);
}

/**
 * Get sequential key. Returns key of owning element with the attribute index as a suffix
 * @param buffer a buffer to which the generated ID will be written
 */

public void generateId(FastStringBuffer buffer) {
    getParent().generateId(buffer);
    buffer.append('a');
    buffer.append(Integer.toString(index));
}

/**
 * Copy this node to a given outputter
 */

public void copy(Receiver out, int whichNamespaces, boolean copyAnnotations, int locationId) throws
XPathException {
    int nameCode = getNameCode();
    int typeCode = (copyAnnotations ? getTypeAnnotation() : -1);
    out.attribute(nameCode, typeCode, getStringValue(), locationId, 0);
}

/**

```

```

* Delete this node (that is, detach it from its parent)
*/

public void delete() {
    if (parent != null) {
        ((ElementImpl)parent).removeAttribute(getNameCode());
    }
    parent = null;
    // TODO: allow for the fact that transiently during an update operation, several attributes may have the same
    // name.
}

/**
 * Replace this node with a given sequence of nodes
 * @param replacement the replacement nodes (which for this version of the method must be attribute
 * nodes). The target attribute node is deleted, and the replacement nodes are added to the
 * parent element; if they have the same names as existing nodes, then the existing nodes will be
 * overwritten.
 * @param inherit set to true if new child elements are to inherit the in-scope namespaces
 * of their new parent. Not used when replacing attribute nodes.
 * @throws IllegalArgumentException if any of the replacement nodes is not an attribute
 */

public void replace(NodeInfo[] replacement, boolean inherit) {
    ParentNodeImpl element = parent;
    delete();
    for (int i=0; i<replacement.length; i++) {
        NodeInfo n = replacement[i];
        if (n.getNodeKind() != Type.ATTRIBUTE) {
            throw new IllegalArgumentException("Replacement nodes must be attributes");
        }
        element.putAttribute(n.getNameCode(), StandardNames.XS_UNTYPED_ATOMIC, n.getStringValue(), 0);
    }
}

/**
 * Rename this node
 *
 * @param newNameCode the NamePool code of the new name
 */

public void rename(int newNameCode) {
    // The attribute node itself is transient; we need to update the attribute collection held in the parent
    if (parent != null) {
        AttributeCollectionImpl atts = (AttributeCollectionImpl)((ElementImpl)parent).getAttributeList();
        atts.renameAttribute(nameCode, newNameCode);
        if ((newNameCode >> 20) != 0) {

```

```

    // new attribute name is in a namespace
    int nscope = getNamePool().getNamespaceCode(newNameCode);
    int prefixCode = nscope>>16 & 0xffff;
    short uc = ((ElementImpl)parent).getURICodeForPrefixCode(prefixCode);
    if (uc == -1) {
        parent.addNamespace(nscope, false);
    } else if (uc != (nscope&0xffff)) {
        throw new IllegalArgumentException(
            "Namespace binding of new name conflicts with existing namespace binding");
    }
}
}
nameCode = newNameCode;
}

public void replaceStringValue(CharSequence stringValue) {
    value = stringValue.toString();
    // The attribute node itself is transient; we need to update the attribute collection held in the parent
    if (parent != null) {
        AttributeCollectionImpl atts = (AttributeCollectionImpl)((ElementImpl)parent).getAttributeList();
        atts.replaceAttribute(nameCode, stringValue);
    }
}

/**
 * Remove type information from this node (and its ancestors, recursively).
 * This method implements the upd:removeType() primitive defined in the XQuery Update specification
 *
 */

public void removeTypeAnnotation() {
    typeCode = StandardNames.XS_UNTYPED_ATOMIC;
    if (parent != null) {
        AttributeCollectionImpl atts = (AttributeCollectionImpl)((ElementImpl)parent).getAttributeList();
        atts.setTypeAnnotation(nameCode, StandardNames.XS_UNTYPED_ATOMIC);
        parent.removeTypeAnnotation();
    }
}

/**
 * Set the type annotation on a node. This must only be called when the caller has verified (by validation)
 * that the node is a valid instance of the specified type. The call is ignored if the node is not an element
 * or attribute node.
 *
 * @param typeCode the type annotation (possibly including high bits set to indicate the isID, isIDREF, and
 * isNilled properties)

```

```

*/

public void setTypeAnnotation(int typeCode) {
    this.typeCode = typeCode;
    if (parent != null) {
        AttributeCollectionImpl atts = (AttributeCollectionImpl)((ElementImpl)parent).getAttributeList();
        atts.setTypeAnnotation(nameCode, typeCode);
    }
}
}

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//
package net.sf.saxon.tree;

import net.sf.saxon.Configuration;
import net.sf.saxon.trans.Err;
import net.sf.saxon.event.Builder;
import net.sf.saxon.om.*;
import net.sf.saxon.pattern.AnyNodeTest;
import net.sf.saxon.pattern.NameTest;
import net.sf.saxon.pattern.NodeTest;
import net.sf.saxon.trans.XPathException;
import net.sf.saxon.type.Type;
import net.sf.saxon.type.SchemaType;
import net.sf.saxon.value.UntypedAtomicValue;
import net.sf.saxon.value.Value;

import javax.xml.transform.SourceLocator;

/**
 * A node in the "linked" tree representing any kind of node except a namespace node.

```



\* Specific node kinds are represented by concrete subclasses.

\*

\* @author Michael H. Kay

\*/

```
public abstract class NodeImpl
```

```
    implements MutableNodeInfo, FingerprintedNode, SiblingCountingNode, SourceLocator {
```

```
    protected ParentNodeImpl parent;
```

```
    protected int index;
```

```
    /**
```

```
     * Characteristic letters to identify each type of node, indexed using the node type
```

```
     * values. These are used as the initial letter of the result of generate-id()
```

```
     */
```

```
    public static final char[] NODE_LETTER =
```

```
        {'x', 'e', 'a', 't', 'x', 'x', 'x', 'p', 'c', 'r', 'x', 'x', 'x', 'n'};
```

```
    /**
```

```
     * Get the value of the item as a CharSequence. This is in some cases more efficient than
```

```
     * the version of the method that returns a String.
```

```
     */
```

```
    public CharSequence getStringValueCS() {
```

```
        return getStringValue();
```

```
    }
```

```
    /**
```

```
     * Get the type annotation of this node, if any
```

```
     * @return the type annotation, as the integer name code of the type name
```

```
     */
```

```
    public int getTypeAnnotation() {
```

```
        return StandardNames.XS_UNTYPED;
```

```
    }
```

```
    /**
```

```
     * Get the column number of the node.
```

```
     * The default implementation returns -1, meaning unknown
```

```
     */
```

```
    public int getColumnNumber() {
```

```
        if (parent == null) {
```

```
            return -1;
```

```
        } else {
```

```
            return parent.getColumnNumber();
```

```
        }
```

```
    }
```

```

/**
 * Get the public identifier of the document entity containing this node.
 * The default implementation returns null, meaning unknown
 */

public String getPublicId() {
    return null;
}

/**
 * Get the document number of the document containing this node. For a free-standing
 * orphan node, just return the hashcode.
 */

public int getDocumentNumber() {
    return getPhysicalRoot().getDocumentNumber();
}

/**
 * Get the index position of this node among its siblings (starting from 0)
 * @return 0 for the first child, 1 for the second child, etc.
 */

public int getSiblingPosition() {
    return index;
}

/**
 * Get the typed value of this node.
 * If there is no type annotation, we return the string value, as an instance
 * of xs:untypedAtomic
 */

public SequenceIterator getTypedValue() throws XPathException {
    int annotation = getTypeAnnotation();
    if ((annotation & NodeInfo.IS_DTD_TYPE) != 0) {
        annotation = StandardNames.XS_UNTYPED_ATOMIC;
    }
    annotation &= NamePool.FP_MASK;
    if (annotation == -1 || annotation == StandardNames.XS_UNTYPED_ATOMIC || annotation ==
StandardNames.XS_UNTYPED) {
        return SingletonIterator.makeIterator(new UntypedAtomicValue(getStringValueCS()));
    } else {
        SchemaType stype = getConfiguration().getSchemaType(annotation);
        if (stype == null) {
            String typeName;

```

```

    try {
        typeName = getNamePool().getDisplayName(annotation);
    } catch (Exception err) {
        typeName = annotation + "";
    }
    throw new XPathException("Unknown type annotation " +
        Err.wrap(typeName) + " in document instance");
} else {
    return stype.getTypedValue(this);
}
}
}

/**
 * Get the typed value. The result of this method will always be consistent with the method
 * {@link net.sf.saxon.om.Item#getTypedValue()}. However, this method is often more convenient and may be
 * more efficient, especially in the common case where the value is expected to be a singleton.
 *
 * @return the typed value. If requireSingleton is set to true, the result will always be an
 * AtomicValue. In other cases it may be a Value representing a sequence whose items are atomic
 * values.
 * @since 8.5
 */

public Value atomize() throws XPathException {
    int annotation = getTypeAnnotation();
    if ((annotation & NodeInfo.IS_DTD_TYPE) != 0) {
        annotation = StandardNames.XS_UNTYPED_ATOMIC;
    }
    if (annotation == -1 || annotation == StandardNames.XS_UNTYPED_ATOMIC || annotation ==
StandardNames.XS_UNTYPED) {
        return new UntypedAtomicValue(getStringValueCS());
    } else {
        SchemaType stype = getConfiguration().getSchemaType(annotation);
        if (stype == null) {
            String typeName = getNamePool().getDisplayName(annotation);
            throw new XPathException("Unknown type annotation " +
                Err.wrap(typeName) + " in document instance");
        } else {
            return stype.atomize(this);
        }
    }
}

/**
 * Set the system ID of this node. This method is provided so that a NodeInfo
 * implements the javax.xml.transform.Source interface, allowing a node to be
 * used directly as the Source of a transformation

```

```

*/

public void setSystemId(String uri) {
    // overridden in DocumentImpl and ElementImpl
    getParent().setSystemId(uri);
}

/**
 * Determine whether this is the same node as another node
 *
 * @return true if this Node object and the supplied Node object represent the
 *         same node in the tree.
 */

public boolean isSameNodeInfo(NodeInfo other) {
    // default implementation: differs for attribute and namespace nodes
    return this == other;
}

/**
 * The equals() method compares nodes for identity. It is defined to give the same result
 * as isSameNodeInfo().
 * @param other the node to be compared with this node
 * @return true if this NodeInfo object and the supplied NodeInfo object represent
 *         the same node in the tree.
 * @since 8.7 Previously, the effect of the equals() method was not defined. Callers
 * should therefore be aware that third party implementations of the NodeInfo interface may
 * not implement the correct semantics. It is safer to use isSameNodeInfo() for this reason.
 * The equals() method has been defined because it is useful in contexts such as a Java Set or HashMap.
 */

public boolean equals(Object other) {
    return other instanceof NodeInfo && isSameNodeInfo((NodeInfo)other);
}

/**
 * The hashCode() method obeys the contract for hashCode(): that is, if two objects are equal
 * (represent the same node) then they must have the same hashCode()
 * @since 8.7 Previously, the effect of the equals() and hashCode() methods was not defined. Callers
 * should therefore be aware that third party implementations of the NodeInfo interface may
 * not implement the correct semantics.
 */

// public int hashCode() {
//     FastStringBuffer buff = new FastStringBuffer(20);
//     generateId(buff);
//     return buff.toString().hashCode();
// }

```

```

/**
 * Get the nameCode of the node. This is used to locate the name in the NamePool
 */

public int getNameCode() {
    // default implementation: return -1 for an unnamed node
    return -1;
}

/**
 * Get the fingerprint of the node. This is used to compare whether two nodes
 * have equivalent names. Return -1 for a node with no name.
 */

public int getFingerprint() {
    int nameCode = getNameCode();
    if (nameCode == -1) {
        return -1;
    }
    return nameCode & 0xffff;
}

/**
 * Get a character string that uniquely identifies this node within this document
 * (The calling code will prepend a document identifier)
 */

public void generateId(FastStringBuffer buffer) {
    long seq = getSequenceNumber();
    if (seq == -1L) {
        getPhysicalRoot().generateId(buffer);
        buffer.append(NODE_LETTER[getNodeKind()]);
        buffer.append(Long.toString(seq));
    } else {
        parent.generateId(buffer);
        buffer.append(NODE_LETTER[getNodeKind()]);
        buffer.append(Integer.toString(index));
    }
}

/**
 * Get the system ID for the node. Default implementation for child nodes.
 */

public String getSystemId() {
    return parent.getSystemId();
}

```

```

/**
 * Get the base URI for the node. Default implementation for child nodes.
 */

public String getBaseURI() {
    return parent.getBaseURI();
}

/**
 * Get the node sequence number (in document order). Sequence numbers are monotonic but not
 * consecutive. In the current implementation, parent nodes (elements and roots) have a zero
 * least-significant word, while namespaces, attributes, text nodes, comments, and PIs have
 * the top word the same as their owner and the bottom half reflecting their relative position.
 * This is the default implementation for child nodes.
 * For nodes added by XQuery Update, the sequence number is -1L
 * @return the sequence number if there is one, or -1L otherwise.
 */

protected long getSequenceNumber() {
    NodeImpl prev = this;
    for (int i = 0; ; i++) {
        if (prev instanceof ParentNodeImpl) {
            long prevseq = prev.getSequenceNumber();
            return (prevseq == -1L ? prevseq : prevseq + 0x10000 + i);
            // note the 0x10000 is to leave room for namespace and attribute nodes.
        }
        prev = prev.getPreviousInDocument();
    }
}

/**
 * Determine the relative position of this node and another node, in document order.
 * The other node will always be in the same document.
 *
 * @param other The other node, whose position is to be compared with this node
 * @return -1 if this node precedes the other node, +1 if it follows the other
 *         node, or 0 if they are the same node. (In this case, isSameNode() will always
 *         return true, and the two nodes will produce the same result for generateId())
 */

public final int compareOrder(NodeInfo other) {
    if (other instanceof NamespaceIterator.NamespaceNodeImpl) {
        return 0 - other.compareOrder(this);
    }
    long a = getSequenceNumber();
    long b = ((NodeImpl)other).getSequenceNumber();

```

```

if (a == -1L || b == -1L) {
    // Nodes added by XQuery Update do not have sequence numbers
    return Navigator.compareOrder(this, ((NodeImpl)other));
}
if (a < b) {
    return -1;
}
if (a > b) {
    return +1;
}
return 0;
}

/**
 * Get the configuration
 */

public Configuration getConfiguration() {
    return getPhysicalRoot().getConfiguration();
}

/**
 * Get the NamePool
 */

public NamePool getNamePool() {
    return getPhysicalRoot().getNamePool();
}

/**
 * Get the prefix part of the name of this node. This is the name before the ":" if any.
 *
 * @return the prefix part of the name. For an unnamed node, return an empty string.
 */

public String getPrefix() {
    int nameCode = getNameCode();
    if (nameCode == -1) {
        return "";
    }
    if (NamePool.getPrefixIndex(nameCode) == 0) {
        return "";
    }
    return getNamePool().getPrefix(nameCode);
}

/**
 * Get the URI part of the name of this node. This is the URI corresponding to the

```

```

* prefix, or the URI of the default namespace if appropriate.
*
* @return The URI of the namespace of this node. For the null namespace, return an
*     empty string. For an unnamed node, return the empty string.
*/

public String getURI() {
    int nameCode = getNameCode();
    if (nameCode == -1) {
        return "";
    }
    return getNamePool().getURI(nameCode);
}

/**
* Get the display name of this node. For elements and attributes this is [prefix:]localname.
* For unnamed nodes, it is an empty string.
*
* @return The display name of this node.
*     For a node with no name, return an empty string.
*/

public String getDisplayName() {
    int nameCode = getNameCode();
    if (nameCode == -1) {
        return "";
    }
    return getNamePool().getDisplayName(nameCode);
}

/**
* Get the local name of this node.
*
* @return The local name of this node.
*     For a node with no name, return "",.
*/

public String getLocalPart() {
    int nameCode = getNameCode();
    if (nameCode == -1) {
        return "";
    }
    return getNamePool().getLocalName(nameCode);
}

/**
* Get the line number of the node within its source document entity
*/

```



```

public int getLineNumber() {
    return parent.getLineNumber();
}

/**
 * Find the parent node of this node.
 *
 * @return The Node object describing the containing element or root node.
 */

public final NodeInfo getParent() {
    if (parent instanceof DocumentImpl && ((DocumentImpl)parent).isImaginary()) {
        return null;
    }
    return parent;
}

/**
 * Get the previous sibling of the node
 *
 * @return The previous sibling node. Returns null if the current node is the first
 *         child of its parent.
 */

public NodeInfo getPreviousSibling() {
    if (parent == null) {
        return null;
    }
    return parent.getNthChild(index - 1);
}

/**
 * Get next sibling node
 *
 * @return The next sibling node of the required type. Returns null if the current node is the last
 *         child of its parent.
 */

public NodeInfo getNextSibling() {
    if (parent == null) {
        return null;
    }
    return parent.getNthChild(index + 1);
}

```

```

/**
 * Get first child - default implementation used for leaf nodes
 *
 * @return null
 */

public NodeInfo getFirstChild() {
    return null;
}

/**
 * Get last child - default implementation used for leaf nodes
 *
 * @return null
 */

public NodeInfo getLastChild() {
    return null;
}

/**
 * Return an enumeration over the nodes reached by the given axis from this node
 *
 * @param axisNumber The axis to be iterated over
 * @return an AxisIterator that scans the nodes reached by the axis in turn.
 */

public AxisIterator iterateAxis(byte axisNumber) {
    // Fast path for child axis
    if (axisNumber == Axis.CHILD) {
        if (this instanceof ParentNodeImpl) {
            return ((ParentNodeImpl)this).enumerateChildren(null);
        } else {
            return EmptyIterator.getInstance();
        }
    } else {
        return iterateAxis(axisNumber, AnyNodeTest.getInstance());
    }
}

/**
 * Return an enumeration over the nodes reached by the given axis from this node
 *
 * @param axisNumber The axis to be iterated over
 * @param nodeTest A pattern to be matched by the returned nodes
 * @return an AxisIterator that scans the nodes reached by the axis in turn.
 */

```

```

public AxisIterator iterateAxis(byte axisNumber, NodeTest nodeTest) {

    switch (axisNumber) {
        case Axis.ANCESTOR:
            return new AncestorEnumeration(this, nodeTest, false);

        case Axis.ANCESTOR_OR_SELF:
            return new AncestorEnumeration(this, nodeTest, true);

        case Axis.ATTRIBUTE:
            if (getNodeKind() != Type.ELEMENT) {
                return EmptyIterator.getInstance();
            }
            return new AttributeEnumeration(this, nodeTest);

        case Axis.CHILD:
            if (this instanceof ParentNodeImpl) {
                return ((ParentNodeImpl)this).enumerateChildren(nodeTest);
            } else {
                return EmptyIterator.getInstance();
            }

        case Axis.DESCENDANT:
            if (getNodeKind() == Type.DOCUMENT &&
                nodeTest instanceof NameTest &&
                nodeTest.getPrimitiveType() == Type.ELEMENT) {
                return ((DocumentImpl)this).getAllElements(nodeTest.getFingerprint());
            } else if (hasChildNodes()) {
                return new DescendantEnumeration(this, nodeTest, false);
            } else {
                return EmptyIterator.getInstance();
            }

        case Axis.DESCENDANT_OR_SELF:
            return new DescendantEnumeration(this, nodeTest, true);

        case Axis.FOLLOWING:
            return new FollowingEnumeration(this, nodeTest);

        case Axis.FOLLOWING_SIBLING:
            return new FollowingSiblingEnumeration(this, nodeTest);

        case Axis.NAMESPACE:
            if (getNodeKind() != Type.ELEMENT) {
                return EmptyIterator.getInstance();
            }
            return NamespaceIterator.makeIterator(this, nodeTest);
    }
}

```

```

case Axis.PARENT:
    NodeInfo parent = getParent();
    if (parent == null) {
        return EmptyIterator.getInstance();
    }
    return Navigator.filteredSingleton(parent, nodeTest);

case Axis.PRECEDING:
    return new PrecedingEnumeration(this, nodeTest);

case Axis.PRECEDING_SIBLING:
    return new PrecedingSiblingEnumeration(this, nodeTest);

case Axis.SELF:
    return Navigator.filteredSingleton(this, nodeTest);

case Axis.PRECEDING_OR_ANCESTOR:
    return new PrecedingOrAncestorEnumeration(this, nodeTest);

default:
    throw new IllegalArgumentException("Unknown axis number " + axisNumber);
}
}

/**
 * Find the value of a given attribute of this node. <BR>
 * This method is defined on all nodes to meet XSL requirements, but for nodes
 * other than elements it will always return null.
 * @param uri the namespace uri of an attribute
 * @param localName the local name of an attribute
 * @return the value of the attribute, if it exists, otherwise null
 */

// public String getAttributeValue( String uri, String localName ) {
//     return null;
// }

/**
 * Find the value of a given attribute of this node. <BR>
 * This method is defined on all nodes to meet XSL requirements, but for nodes
 * other than elements it will always return null.
 * @param name the name of an attribute. This must be an unqualified attribute name,
 * i.e. one with no namespace prefix.
 * @return the value of the attribute, if it exists, otherwise null
 */

//public String getAttributeValue( String name ) {

```

```

// return null;
//}

/**
 * Get the value of a given attribute of this node
 *
 * @param fingerprint The fingerprint of the attribute name
 * @return the attribute value if it exists or null if not
 */

public String getAttributeValue(int fingerprint) {
    return null;
}

/**
 * Get the root node
 * @return the NodeInfo representing the logical root of the tree. For this tree implementation the
 * root will either be a document node or an element node.
 */

public NodeInfo getRoot() {
    NodeInfo parent = getParent();
    if (parent == null) {
        return this;
    } else {
        return parent.getRoot();
    }
}

/**
 * Get the root (document) node
 * @return the DocumentInfo representing the containing document. If this
 * node is part of a tree that does not have a document node as its
 * root, returns null.
 */

public DocumentInfo getDocumentRoot() {
    NodeInfo parent = getParent();
    if (parent == null) {
        return null;
    } else {
        return parent.getDocumentRoot();
    }
}

/**
 * Get the physical root of the tree. This may be an imaginary document node: this method

```

```

* should be used only when control information held at the physical root is required
* @return the document node, which may be imaginary. In the case of a node that has been detached
* from the tree by means of a delete() operation, this method returns null.
*/

```

```

public DocumentImpl getPhysicalRoot() {
    ParentNodeImpl up = parent;
    while (up != null && !(up instanceof DocumentImpl)) {
        up = up.parent;
    }
    return (DocumentImpl)up;
}

```

```

/**
 * Get the next node in document order
 *
 * @param anchor the scan stops when it reaches a node that is not a descendant of the specified
 * anchor node
 * @return the next node in the document, or null if there is no such node
 */

```

```

public NodeImpl getNextInDocument(NodeImpl anchor) {
    // find the first child node if there is one; otherwise the next sibling node
    // if there is one; otherwise the next sibling of the parent, grandparent, etc, up to the anchor element.
    // If this yields no result, return null.

```

```

    NodeImpl next = (NodeImpl)getFirstChild();
    if (next != null) {
        return next;
    }
    if (this == anchor) {
        return null;
    }
    next = (NodeImpl)getNextSibling();
    if (next != null) {
        return next;
    }
    NodeImpl parent = this;
    while (true) {
        parent = (NodeImpl)parent.getParent();
        if (parent == null) {
            return null;
        }
        if (parent == anchor) {
            return null;
        }
        next = (NodeImpl)parent.getNextSibling();
        if (next != null) {

```

```

        return next;
    }
}

/**
 * Get the previous node in document order
 *
 * @return the previous node in the document, or null if there is no such node
 */

public NodeImpl getPreviousInDocument() {

    // finds the last child of the previous sibling if there is one;
    // otherwise the previous sibling element if there is one;
    // otherwise the parent, up to the anchor element.
    // If this reaches the document root, return null.

    NodeImpl prev = (NodeImpl)getPreviousSibling();
    if (prev != null) {
        return prev.getLastDescendantOrSelf();
    }
    return (NodeImpl)getParent();
}

private NodeImpl getLastDescendantOrSelf() {
    NodeImpl last = (NodeImpl)getLastChild();
    if (last == null) {
        return this;
    }
    return last.getLastDescendantOrSelf();
}

/**
 * Get all namespace undeclarations and undeclarations defined on this element.
 *
 * @param buffer If this is non-null, and the result array fits in this buffer, then the result
 * may overwrite the contents of this array, to avoid the cost of allocating a new array on the heap.
 * @return An array of integers representing the namespace declarations and undeclarations present on
 * this element. For a node other than an element, return null. Otherwise, the returned array is a
 * sequence of namespace codes, whose meaning may be interpreted by reference to the name pool. The
 * top half word of each namespace code represents the prefix, the bottom half represents the URI.
 * If the bottom half is zero, then this is a namespace undeclaration rather than a declaration.
 * The XML namespace is never included in the list. If the supplied array is larger than required,
 * then the first unused entry will be set to -1.
 *
 * <p/>
 * <p>For a node other than an element, the method returns null.</p>

```

```

*/

public int[] getDeclaredNamespaces(int[] buffer) {
    return null;
}
/**
 * Copy nodes. Copying type annotations is not yet supported for this tree
 * structure, so we simply map the new interface onto the old
 */

// public final void copy(Receiver out, int whichNamespaces, boolean copyAnnotations, int locationId)
// throws XPathException {
//     copy(out, whichNamespaces);
// }
//
// public abstract void copy(Receiver out, int whichNamespaces) throws XPathException;

// implement DOM Node methods

/**
 * Determine whether the node has any children.
 *
 * @return <code>true</code> if the node has any children,
 *         <code>false</code> if the node has no children.
 */

public boolean hasChildNodes() {
    return getFirstChild() != null;
}

/**
 * Determine whether this node has the is-id property
 *
 * @return true if the node is an ID
 */

public boolean isId() {
    return false;
}

/**
 * Determine whether this node has the is-idref property
 *
 * @return true if the node is an IDREF or IDREFS element or attribute
 */

public boolean isIdref() {
    return false;
}

```



```

}

/**
 * Determine whether the node has the is-nilled property
 *
 * @return true if the node has the is-nilled property
 */

public boolean isNilled() {
    return false;
}

/**
 * Set the type annotation on a node. This must only be called when the caller has verified (by validation)
 * that the node is a valid instance of the specified type. The call is ignored if the node is not an element
 * or attribute node.
 *
 * @param typeCode the type annotation (possibly including high bits set to indicate the isID, isIDREF, and
 *         isNilled properties)
 */

public void setTypeAnnotation(int typeCode) {
    // no action
}

/**
 * Delete this node (that is, detach it from its parent)
 */

public void delete() {
    // Overridden for attribute nodes
    if (parent != null) {
        parent.removeChild(this);
        DocumentImpl newRoot = new DocumentImpl();
        newRoot.setConfiguration(parent.getConfiguration());
        newRoot.setImaginary(true);
        parent = newRoot;
    }
    index = -1;
}

/**
 * Remove an attribute from this element node
 *
 * <p>If this node is not an element, or if it has no attribute with the specified name,
 * this method takes no action.</p>

```

```

*
* <p>The attribute node itself is not modified in any way.</p>
* @param nameCode the name of the attribute to be removed
*/

public void removeAttribute(int nameCode) {
    // no action (overridden in subclasses)
}

/**
 * Add an attribute to this element node.
 * <p/>
 * <p>If this node is not an element, or if the supplied node is not an attribute, the method
 * takes no action. If the element already has an attribute with this name, the existing attribute
 * is replaced.</p>
 *
 * @param nameCode the name of the new attribute
 * @param typeCode the type annotation of the new attribute
 * @param value the string value of the new attribute
 * @param properties properties including IS_ID and IS_IDREF properties
 */

public void putAttribute(int nameCode, int typeCode, CharSequence value, int properties) {
    // No action, unless this is an element node
}

/**
 * Rename this node
 * @param newNameCode the NamePool code of the new name
 */

public void rename(int newNameCode) {
    // implemented for node kinds that have a name
}

public void addNamespace(int nscope, boolean inherit) {
    // implemented for element nodes only
}

/**
 * Replace this node with a given sequence of nodes
 * @param replacement the replacement nodes
 * @param inherit set to true if new child elements are to inherit the in-scope namespaces
 * of their new parent
 * @throws IllegalArgumentException if any of the replacement nodes is not an element, text,
 * comment, or processing instruction node
 */

```

```

public void replace(NodeInfo[] replacement, boolean inherit) {
    parent.replaceChildrenAt(replacement, index, inherit);
}

/**
 * Insert copies of a sequence of nodes as children of this node.
 * <p/>
 * <p>This method takes no action unless the target node is a document node or element node. It also
 * takes no action in respect of any supplied nodes that are not elements, text nodes, comments, or
 * processing instructions.</p>
 * <p/>
 * <p>The supplied nodes will be copied to form the new children. Adjacent text nodes will be merged, and
 * zero-length text nodes removed.</p>
 *
 * @param source the nodes to be inserted
 * @param atStart true if the new nodes are to be inserted before existing children; false if they are
 * @param inherit true if the inserted nodes are to inherit the namespaces that are in-scope for their
 * new parent; false if such namespaces should be undeclared on the children
 */

public void insertChildren(NodeInfo[] source, boolean atStart, boolean inherit) {
    throw new UnsupportedOperationException("insertChildren() can only be applied to a parent node");
}

/**
 * Insert copies of a sequence of nodes as siblings of this node.
 * <p/>
 * <p>This method takes no action unless the target node is an element, text node, comment, or
 * processing instruction, and one that has a parent node. It also
 * takes no action in respect of any supplied nodes that are not elements, text nodes, comments, or
 * processing instructions.</p>
 * <p/>
 * <p>The supplied nodes must use the same data model implementation as the tree into which they
 * will be inserted.</p>
 *
 * @param source the nodes to be inserted
 * @param before true if the new nodes are to be inserted before the target node; false if they are
 * @param inherit
 */

public void insertSiblings(NodeInfo[] source, boolean before, boolean inherit) {
    if (parent == null) {
        throw new IllegalStateException("Cannot add siblings if there is no parent");
    }
    parent.insertChildrenAt(source, (before ? index : index+1), inherit);
}

```

```

/**
 * Remove type information from this node (and its ancestors, recursively).
 * This method implements the upd:removeType() primitive defined in the XQuery Update specification
 */

public void removeTypeAnnotation() {
    // no action
}

/**
 * Get a Builder suitable for building nodes that can be attached to this document.
 * @return a new Builder that constructs nodes using the same object model implementation
 * as this one, suitable for attachment to this tree
 */

public Builder newBuilder() {
    return getPhysicalRoot().newBuilder();
}
}

//
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//
package net.sf.saxon.tree;
import net.sf.saxon.event.CopyInformee;
import net.sf.saxon.event.Receiver;
import net.sf.saxon.event.ReceiverOptions;
import net.sf.saxon.om.*;
import net.sf.saxon.pattern.NodeKindTest;
import net.sf.saxon.sort.IntArraySet;
import net.sf.saxon.sort.IntHashSet;
import net.sf.saxon.sort.IntIterator;
import net.sf.saxon.sort.IntSet;

```

```

import net.sf.saxon.trans.XPathException;
import net.sf.saxon.type.Type;
import net.sf.saxon.value.Whitespace;

import java.util.Iterator;

/**
 * ElementImpl implements an element with no attributes or namespace declarations.<P>
 * This class is an implementation of NodeInfo. For elements with attributes or
 * namespace declarations, class ElementWithAttributes is used.
 * @author Michael H. Kay
 */

public class ElementImpl extends ParentNodeImpl implements NamespaceResolver {

    private static final AttributeCollectionImpl emptyAtts = new AttributeCollectionImpl(null);

    protected int nameCode;
    protected int typeCode;
    protected AttributeCollection attributeList;    // this excludes namespace attributes
    protected int[] namespaceList = null;        // list of namespace codes

    /**
     * Construct an empty ElementImpl
     */

    public ElementImpl() {}

    /**
     * Set the name code. Used when creating a dummy element in the Stripper
     * @param nameCode the integer name code representing the element name
     */

    public void setNameCode(int nameCode) {
        this.nameCode = nameCode;
    }

    /**
     * Initialise a new ElementImpl with an element name
     * @param nameCode Integer representing the element name, with namespaces resolved
     * @param typeCode Integer representing the schema type of the element node
     * @param atts The attribute list: always null
     * @param parent The parent node
     * @param sequenceNumber Integer identifying this element within the document
     */

    public void initialise(int nameCode, int typeCode, AttributeCollectionImpl atts, NodeInfo parent,

```

```

        int sequenceNumber) {
    this.nameCode = nameCode;
    this.typeCode = (typeCode == -1 ? StandardNames.XS_UNTYPED : typeCode);
    this.parent = (ParentNodeImpl)parent;
    sequence = sequenceNumber;
    attributeList = atts;
}

/**
 * Set location information for this node
 * @param systemId the base URI
 * @param line the line number if known
 * @param column the column number if known
 */

public void setLocation(String systemId, int line, int column) {
    DocumentImpl root = parent.getPhysicalRoot();
    root.setLineAndColumn(sequence, line, column);
    root.setSystemId(sequence, systemId);
}

/**
 * Set the system ID of this node. This method is provided so that a NodeInfo
 * implements the javax.xml.transform.Source interface, allowing a node to be
 * used directly as the Source of a transformation
 */

public void setSystemId(String uri) {
    getPhysicalRoot().setSystemId(sequence, uri);
}

/**
 * Get the root node
 */

public NodeInfo getRoot() {
    ParentNodeImpl up = parent;
    if (up == null || (up instanceof DocumentImpl && ((DocumentImpl)up).isImaginary())) {
        return this;
    } else {
        return up.getRoot();
    }
}

/**
 * Get the root node, if it is a document node.
 *
 * @return the DocumentInfo representing the containing document. If this

```

```
* node is part of a tree that does not have a document node as its
* root, returns null.
* @since 8.4
*/
```

```
public DocumentInfo getDocumentRoot() {
    NodeInfo root = getRoot();
    if (root instanceof DocumentInfo) {
        return (DocumentInfo)root;
    } else {
        return null;
    }
}
```

```
/**
 * Get the system ID of the entity containing this element node.
 */
```

```
public final String getSystemId() {
    DocumentImpl root = getPhysicalRoot();
    return (root == null ? null : root.getSystemId(sequence));
}
```

```
/**
 * Get the base URI of this element node. This will be the same as the System ID unless
 * xml:base has been used.
 */
```

```
public String getBaseURI() {
    return Navigator.getBaseURI(this);
}
```

```
/**
 * Determine whether the node has the is-nilled property
 *
 * @return true if the node has the is-nilled property
 */
```

```
public boolean isNilled() {
    return (typeCode & NodeInfo.IS_NILLED) != 0;
}
```

```
/**
 * Set the type annotation on a node. This must only be called when the caller has verified (by validation)
 * that the node is a valid instance of the specified type. The call is ignored if the node is not an element
 * or attribute node.
 */
```

```

* @param typeCode the type annotation (possibly including high bits set to indicate the isID, isIDREF, and
*         isNilled properties)
*/

public void setTypeAnnotation(int typeCode) {
    if (typeCode == -1) {
        typeCode = StandardNames.XS_UNTYPED;
    }
    this.typeCode = typeCode;
}

/**
* Get the type annotation of this node, if any
* @return the type annotation, as the integer name code of the type name
*/

public int getTypeAnnotation() {
    return typeCode & NamePool.FP_MASK;
}

/**
* Set the line number of the element within its source document entity
* @param line the line number
* @param column the column number
*/

public void setLineAndColumn(int line, int column) {
    DocumentImpl root = getPhysicalRoot();
    if (root != null) {
        root.setLineAndColumn(sequence, line, column);
    }
}

/**
* Get the line number of the node within its source document entity
*/

public int getLineNumber() {
    DocumentImpl root = getPhysicalRoot();
    if (root == null) {
        return -1;
    } else {
        return root.getLineNumber(sequence);
    }
}

/**
* Get the line number of the node within its source document entity

```



```

*/

public int getColumnNumber() {
    DocumentImpl root = getPhysicalRoot();
    if (root == null) {
        return -1;
    } else {
        return root.getColumnNumber(sequence);
    }
}

/**
 * Get the nameCode of the node. This is used to locate the name in the NamePool
 */

public int getNameCode() {
    return nameCode;
}

/**
 * Get a character string that uniquely identifies this node
 * @param buffer to contain the generated ID
 */

public void generateId(FastStringBuffer buffer) {
    if (sequence >= 0) {
        getPhysicalRoot().generateId(buffer);
        buffer.append("e");
        buffer.append(Integer.toString(sequence));
    } else {
        parent.generateId(buffer);
        buffer.append("f");
        buffer.append(Integer.toString(index));
    }
}

/**
 * Return the kind of node.
 * @return Type.ELEMENT
 */

public final int getNodeKind() {
    return Type.ELEMENT;
}

/**
 * Copy this node to a given outputter (supporting xsl:copy-of)
 * @param out The outputter

```

```

* @param whichNamespaces indicates which namespaces should be output: all, none, or local
* namespaces only (those not declared on the parent element)
*/

```

```

public void copy(Receiver out, int whichNamespaces, boolean copyAnnotations, int locationId) throws
XPathException {

```

```

    int typeCode = (copyAnnotations ? getTypeAnnotation() : StandardNames.XS_UNTYPED);
    if (locationId == 0 && out instanceof CopyInformee) {
        ((CopyInformee)out).notifyElementNode(this);
    }
    out.startElement(getNameCode(), typeCode, locationId, 0);

```

```

    // output the namespaces

```

```

    switch (whichNamespaces) {
        case NodeInfo.NO_NAMESPACES:
            break;
        case NodeInfo.LOCAL_NAMESPACES:
            int[] localNamespaces = getDeclaredNamespaces(null);
            for (int i=0; i<localNamespaces.length; i++) {
                int ns = localNamespaces[i];
                if (ns == -1) {
                    break;
                }
                out.namespace(ns, 0);
            }
            break;
        case NodeInfo.ALL_NAMESPACES:
            NamespaceCodeIterator.sendNamespaces(this, out);
            break;
    }

```

```

    // output the attributes

```

```

    if (attributeList != null) {
        for (int i=0; i<attributeList.getLength(); i++) {
            out.attribute(attributeList.getNameCode(i), StandardNames.XS_UNTYPED_ATOMIC,
                attributeList.getValue(i), 0, 0);
        }
    }

```

```

    out.startContent();

```

```

    // output the children

```

```

        int childNamespaces = (whichNamespaces==NO_NAMESPACES ? NO_NAMESPACES :
LOCAL_NAMESPACES);

```

```

NodeImpl next = (NodeImpl)getFirstChild();
while (next!=null) {
    next.copy(out, childNamespaces, copyAnnotations, locationId);
    next = (NodeImpl)next.getNextSibling();
}

out.endElement();
}

/**
 * Delete this node (that is, detach it from its parent)
 */

public void delete() {
    DocumentImpl root = getPhysicalRoot();
    super.delete();
    if (root != null) {
        AxisIterator iter = iterateAxis(Axis.DESCEMANT_OR_SELF, NodeKindTest.ELEMENT);
        while (true) {
            ElementImpl n = (ElementImpl)iter.next();
            int atts = attributeList.getLength();
            for (int index=0; index<atts; index++) {
                if (attributeList.isId(index)) {
                    root.deregisterID(attributeList.getValue(index));
                }
            }
            if (n == null) {
                break;
            }
            root.deIndex(n);
        }
    }
}

/**
 * Rename this node
 *
 * @param newNameCode the NamePool code of the new name
 */

public void rename(int newNameCode) {
    nameCode = newNameCode;
    int nscope = getNamePool().getNamespaceCode(newNameCode);
    int prefixCode = nscope>>16 & 0xffff;
    short uc = getURICodeForPrefixCode(prefixCode);
    if (uc == -1) {
        addNamespace(nscope, false);
    } else if (uc != (nscope&0xffff)) {

```

```

        throw new IllegalArgumentException(
            "Namespace binding of new name conflicts with existing namespace binding");
    }
}

/**
 * Add a namespace binding (that is, a namespace node) to this element. This call has no effect if applied
 * to a node other than an element.
 * @param nscope The namespace code representing the (prefix, uri) pair of the namespace binding to be
 * added. If the target element already has a namespace binding with this (prefix, uri) pair, the call has
 * no effect. If the target element currently has a namespace binding with this prefix and a different URI, an
 * exception is raised.
 * @param inherit If true, the new namespace binding will be inherited by any children of the target element
 * that do not already have a namespace binding for the specified prefix, recursively.
 * If false, the new namespace binding will not be inherited.
 * @throws IllegalArgumentException if the target element already has a namespace binding for this prefix,
 * or if the namespace code represents a namespace undeclaration
 */

public void addNamespace(int nscope, boolean inherit) {
    if ((nscope & 0xffff) == 0) {
        throw new IllegalArgumentException("Cannot add a namespace undeclaration");
    }
    addNamespaceInternal(nscope, true);

    // The data model is such that namespaces are inherited by default. If inheritance is NOT requested,
    // we must process the children to add namespace undeclarations
    if (hasChildNodes() && !inherit) {
        int undecl = nscope & 0xffff0000;
        AxisIterator kids = enumerateChildren(NodeKindTest.ELEMENT);
        while (true) {
            ElementImpl child = (ElementImpl)kids.next();
            if (child == null) {
                break;
            }
            child.addNamespaceInternal(undecl, false);
        }
    }
}

private void addNamespaceInternal(int nscope, boolean externalCall) {
    if (namespaceList == null) {
        namespaceList = new int[]{nscope};
    } else {
        for (int i=0; i<namespaceList.length; i++) {
            if (namespaceList[i] == nscope) {
                return;
            }
        }
    }
}

```

```

        if ((namespaceList[i]&0xffff0000) == (nscode&0xffff0000)) {
            if ((namespaceList[i]&0x0000ffff) == 0) {
                // this is an undeclaration; replace it with the new declaration
                namespaceList[i] = nscode;
            } else if (externalCall) {
                throw new IllegalArgumentException("New namespace conflicts with existing namespace binding");
            } else {
                return;
            }
        }
    }
    int len = namespaceList.length;
    int[] ns2 = new int[len + 1];
    System.arraycopy(namespaceList, 0, ns2, 0, len);
    ns2[len] = nscode;
    namespaceList = ns2;
}
}

```

```

/**
 * Replace the string-value of this node
 *
 * @param stringValue the new string value
 */

```

```

public void replaceStringValue(CharSequence stringValue) {
    if (stringValue.length() == 0) {
        children = null;
    } else {
        children = new TextImpl(this, stringValue.toString());
    }
}
}

```

```

/**
 * Add an attribute to this element node.
 * <p/>
 * <p>If this node is not an element, or if the supplied node is not an attribute, the method
 * takes no action. If the element already has an attribute with this name, the existing attribute
 * is replaced.</p>
 *
 * @param nameCode the name of the new attribute
 * @param typeCode the type annotation of the new attribute
 * @param value the string value of the new attribute
 * @param properties properties including IS_ID and IS_IDREF properties
 */

```

```

public void putAttribute(int nameCode, int typeCode, CharSequence value, int properties) {

```

```

if (attributeList == null || attributeList.getLength() == 0) {
    attributeList = new AttributeCollectionImpl(getConfiguration());
}
AttributeCollectionImpl atts = (AttributeCollectionImpl)attributeList;
int index = atts.getIndexByFingerprint(nameCode & NamePool.FP_MASK);
if (index == -1) {
    atts.addAttribute(nameCode, typeCode, value.toString(), 0, 0);
} else {
    if (atts.isId(index)) {
        DocumentImpl root = getPhysicalRoot();
        root.deregisterID(atts.getValue(index));
    }
    atts.setAttribute(index, nameCode, typeCode, value.toString(), 0, 0);
}
if ((properties & ReceiverOptions.IS_ID) != 0) {
    DocumentImpl root = getPhysicalRoot();
    if (root != null) {
        root.registerID(this, Whitespace.trim(value));
    }
}
}

/**
 * Remove an attribute from this element node
 * @param nameCode the name of the attribute to be removed
 */

public void removeAttribute(int nameCode) {
    AttributeCollectionImpl atts = (AttributeCollectionImpl)getAttributeList();
    int fp = nameCode & NamePool.FP_MASK;
    int index = atts.getIndexByFingerprint(fp);
    if (index >= 0 && atts.isId(index)) {
        DocumentImpl root = getPhysicalRoot();
        root.deregisterID(atts.getValue(index));
    }
    atts.removeAttribute(fp);
}

/**
 * Remove type information from this node (and its ancestors, recursively).
 * This method implements the upd:removeType() primitive defined in the XQuery Update specification
 */

public void removeTypeAnnotation() {
    int t = getTypeAnnotation();
    if (t != StandardNames.XS_UNTYPED) {

```

```

        typeCode = StandardNames.XS_ANY_TYPE;
        parent.removeTypeAnnotation();
    }
}

/**
 * Set the namespace declarations for the element
 * @param namespaces the list of namespace codes
 * @param namespacesUsed the number of entries in the list that are used
 */

public void setNamespaceDeclarations(int[] namespaces, int namespacesUsed) {
    namespaceList = new int[namespacesUsed];
    System.arraycopy(namespaces, 0, namespaceList, 0, namespacesUsed);
}

/**
 * Get the namespace URI corresponding to a given prefix. Return null
 * if the prefix is not in scope.
 *
 * @param prefix the namespace prefix. May be the zero-length string, indicating
 * that there is no prefix. This indicates either the default namespace or the
 * null namespace, depending on the value of useDefault.
 * @param useDefault true if the default namespace is to be used when the
 * prefix is "". If false, the method returns "" when the prefix is "".
 * @return the uri for the namespace, or null if the prefix is not in scope.
 * The "null namespace" is represented by the pseudo-URI "".
 */

public String getURIForPrefix(String prefix, boolean useDefault) {
    if (prefix.equals("xml")) {
        return NamespaceConstant.XML;
    }
    if (prefix.length() == 0 && !useDefault) {
        return "";
    }
}

NamePool pool = getNamePool();
int prefixCode = pool.getCodeForPrefix(prefix);
if (prefixCode == -1) {
    return null;
}
short uriCode = getURICodeForPrefixCode(prefixCode);
if (uriCode == -1) {
    return null;
}
return pool.getURIFromURICode(uriCode);
}

```

```

/**
 * Get an iterator over all the prefixes declared in this namespace context. This will include
 * the default namespace (prefix="") and the XML namespace where appropriate
 */

public Iterator iteratePrefixes() {
    return new Iterator() {
        private NamePool pool = null;
        private IntIterator iter = NamespaceCodeIterator.iterateNamespaces(ElementImpl.this);
        public boolean hasNext() {
            return (pool == null || iter.hasNext());
        }
        public Object next() {
            if (pool == null) {
                pool = getNamePool();
                return "xml";
            } else {
                return pool.getPrefixFromNamespaceCode(iter.next());
            }
        }
        public void remove() {
            throw new UnsupportedOperationException("remove");
        }
    };
}

/**
 * Search the NamespaceList for a given prefix, returning the corresponding URI.
 * @param prefix The prefix to be matched. To find the default namespace, supply ""
 * @return The URI code corresponding to this namespace. If it is an unnamed default namespace,
 * return Namespace.NULL_CODE.
 * @throws net.sf.saxon.om.NamespaceException if the prefix has not been declared on this NamespaceList.
 */

public short getURICodeForPrefix(String prefix) throws NamespaceException {
    if (prefix.equals("xml")) return NamespaceConstant.XML_CODE;

    NamePool pool = getNamePool();
    int prefixCode = pool.getCodeForPrefix(prefix);
    if (prefixCode == -1) {
        throw new NamespaceException(prefix);
    }
    short uc = getURICodeForPrefixCode(prefixCode);
    if (uc == -1) {
        throw new NamespaceException(getNamePool().getPrefixFromNamespaceCode(prefixCode << 16));
    }
    return uc;
}

```



```

}

/**
 * Get the URI bound to a given prefix in the in-scope namespaces of this element
 * @param prefixCode the prefix code as a 16-bit integer
 * @return the uri code as a 16-bit integer, or -1 if there is no in-scope binding for this prefix
 */

protected short getURICodeForPrefixCode(int prefixCode) {
    if (namespaceList!=null) {
        for (int i=0; i<namespaceList.length; i++) {
            if ((namespaceList[i]>>16) == prefixCode) {
                short u = (short)(namespaceList[i] & 0xffff);
                return (u==0 && prefixCode!=0 ? (short)-1 : u);
            }
        }
    }
    NodeInfo next = parent;
    if (next.getNodeKind()==Type.DOCUMENT) {
        // prefixCode==0 represents the empty namespace prefix ""
        if (prefixCode==0) {
            return NamespaceConstant.NULL_CODE;
        }
        return -1;
    } else {
        return ((ElementImpl)next).getURICodeForPrefixCode(prefixCode);
    }
}

/**
 * Search the NamespaceList for a given URI, returning the corresponding prefix.
 * @param uri The URI to be matched.
 * @return The prefix corresponding to this URI. If not found, return null. If there is
 * more than one prefix matching the URI, the first one found is returned. If the URI matches
 * the default namespace, return an empty string.
 */

public String getPrefixForURI(String uri) {
    if (uri.equals(NamespaceConstant.XML)) return "xml";

    NamePool pool = getNamePool();
    int uriCode = pool.getCodeForURI(uri);
    if (uriCode<0) return null;
    return getPrefixForURICode(uriCode);
}

private String getPrefixForURICode(int code) {
    if (namespaceList!=null) {

```

```

    for (int i=0; i<namespaceList.length; i++) {
        if ((namespaceList[i] & 0xffff) == code) {
            return getNamePool().getPrefixFromNamespaceCode(namespaceList[i]);
        }
    }
}
NodeInfo next = parent;
if (next instanceof DocumentInfo) {
    return null;
} else {
    return ((ElementImpl)next).getPrefixForURICode(code);
}
}

/**
 * Get all namespace undeclarations and undeclarations defined on this element.
 *
 * @param buffer If this is non-null, and the result array fits in this buffer, then the result
 * may overwrite the contents of this array, to avoid the cost of allocating a new array on the heap.
 * @return An array of integers representing the namespace declarations and undeclarations present on
 * this element. For a node other than an element, return null. Otherwise, the returned array is a
 * sequence of namespace codes, whose meaning may be interpreted by reference to the name pool. The
 * top half word of each namespace code represents the prefix, the bottom half represents the URI.
 * If the bottom half is zero, then this is a namespace undeclaration rather than a declaration.
 * The XML namespace is never included in the list. If the supplied array is larger than required,
 * then the first unused entry will be set to -1.
 * <p/>
 * <p>For a node other than an element, the method returns null.</p>
 */

public int[] getDeclaredNamespaces(int[] buffer) {
    return (namespaceList == null ? IntArraySet.EMPTY_INT_ARRAY : namespaceList);
}

/**
 * Get the list of in-scope namespaces for this element as an array of
 * namespace codes. (Used by LiteralResultElement)
 * @return the list of namespaces
 */

public int[] getInScopeNamespaceCodes() {
    return NamespaceIterator.getInScopeNamespaceCodes(this);
}

/**
 * Ensure that a child element being inserted into a tree has the right namespace declarations.
 * Redundant declarations should be removed. If the child is in the null namespace but the parent has a default
 * namespace, xmlns="" should be added. If inherit is false, namespace undeclarations should be added for all

```

```

* namespaces that are declared on the parent but not on the child.
* @param inherit true if the child is to inherit the inscope namespaces of its new parent
*/

```

```

protected void fixupInsertedNamespaces(boolean inherit) {
    if (parent.getNodeKind() == Type.DOCUMENT) {
        return;
    }

    IntSet childNamespaces = new IntHashSet();
    if (namespaceList != null) {
        for (int i=0; i<namespaceList.length; i++) {
            childNamespaces.add(namespaceList[i]);
        }
    }

    NamespaceResolver inscope = new InscopeNamespaceResolver(parent);
    NamePool pool = getNamePool();

    // If the child is in the null namespace but the parent has a default namespace, xmlns="" should be added.

    if (getURI().length()==0 && inscope.getURIForPrefix("", true).length()!=0) {
        childNamespaces.add(0);
    }

    // Namespaces present on the parent but not on the child should be undeclared (if requested)

    if (!inherit) {
        Iterator it = inscope.iteratePrefixes();
        while (it.hasNext()) {
            String prefix = (String)it.next();
            int prefixCode = pool.getCodeForPrefix(prefix)<<16;
            boolean found = false;
            if (namespaceList != null) {
                for (int i=0; i<namespaceList.length; i++) {
                    if ((namespaceList[i] & 0xffff) == prefixCode) {
                        found = true;
                        break;
                    }
                }
            }
            if (!found) {
                childNamespaces.add(prefixCode);
            }
        }
    }

    // Redundant namespaces should be removed

```

```

if (namespaceList != null) {
    for (int i=0; i<namespaceList.length; i++) {
        int nscope = namespaceList[i];
        String prefix = pool.getPrefixFromNamespaceCode(nscope);
        String uri = pool.getURIFromNamespaceCode(nscope);
        String parentUri = inscope.getURIForPrefix(prefix, true);
        if (parentUri != null && parentUri.equals(uri)) {
            // the namespace declaration is redundant
            childNamespaces.remove(nscope);
        }
    }
}
int[] n2 = new int[childNamespaces.size()];
int j = 0;
IntIterator ii = childNamespaces.iterator();
while (ii.hasNext()) {
    n2[j++] = ii.next();
}
namespaceList = n2;
}

/**
 * Get the attribute list for this element.
 * @return The attribute list. This will not include any
 * namespace attributes. The attribute names will be in expanded form, with prefixes
 * replaced by URIs
 */

public AttributeCollection getAttributeList() {
    return (attributeList == null ? emptyAtts : attributeList);
}

/**
 * Get the value of a given attribute of this node
 * @param fingerprint The fingerprint of the attribute name
 * @return the attribute value if it exists or null if not
 */

public String getAttributeValue(int fingerprint) {
    return (attributeList == null ? null : attributeList.getValueByFingerprint(fingerprint));
}

/**
 * Get the value of a given attribute of this node
 * @param uri the namespace URI of the attribute name, or "" if the attribute is not in a namespace
 * @param localName the local part of the attribute name
 * @return the attribute value if it exists or null if not

```

```

*/

public String getAttributeValue(String uri, String localName) {
    return (attributeList == null ? null : attributeList.getValue(uri, localName));
}
}

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//
package net.sf.saxon.tree;
import net.sf.saxon.event.Receiver;
import net.sf.saxon.trans.XPathException;
import net.sf.saxon.type.Type;
import net.sf.saxon.om.SequenceIterator;
import net.sf.saxon.om.SingletonIterator;
import net.sf.saxon.value.StringValue;
import net.sf.saxon.value.Value;

/**
 * CommentImpl is an implementation of a Comment node
 * @author Michael H. Kay
 */

final class CommentImpl extends NodeImpl {

    String comment;

    public CommentImpl(String content) {
        this.comment = content;
    }

    public final String getStringValue() {

```

```

        return comment;
    }

    /**
     * Get the typed value of this node.
     * Returns the string value, as an instance of xs:string
     */

    public SequenceIterator getTypedValue() {
        return SingletonIterator.makeIterator(new StringValue(getStringValue()));
    }

    /**
     * Get the typed value of this node.
     * Returns the string value, as an instance of xs:string
     */

    public Value atomize() {
        return new StringValue(getStringValue());
    }

    public final int getNodeKind() {
        return Type.COMMENT;
    }

    /**
     * Copy this node to a given outputter
     */

    public void copy(Receiver out, int whichNamespaces, boolean copyAnnotations, int locationId) throws
    XPathException {
        out.comment(comment, locationId, 0);
    }

    /**
     * Replace the string-value of this node
     *
     * @param stringValue the new string value
     */

    public void replaceStringValue(CharSequence stringValue) {
        comment = stringValue.toString();
    }
}

//

```

```

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//
package net.sf.saxon.tree;
import net.sf.saxon.om.*;
import net.sf.saxon.pattern.AnyNodeTest;
import net.sf.saxon.pattern.NodeTest;
import net.sf.saxon.type.Type;

/**
 * ParentNodeImpl is an implementation of a non-leaf node (specifically, an Element node
 * or a Document node)
 * @author Michael H. Kay
 */

abstract class ParentNodeImpl extends NodeImpl {

    protected Object children = null; // null for no children
        // a NodeInfo for a single child
        // a NodeInfo[] for >1 child

    protected int sequence; // sequence number allocated during original tree creation.
        // set to -1 for nodes added subsequently by XQuery update

    /**
     * Get the node sequence number (in document order). Sequence numbers are monotonic but not
     * consecutive. In the current implementation, parent nodes (elements and document nodes) have a zero
     * least-significant word, while namespaces, attributes, text nodes, comments, and PIs have
     * the top word the same as their owner and the bottom half reflecting their relative position.
     * For nodes added by XQuery Update, the sequence number is -1L
     * @return the sequence number if there is one, or -1L otherwise.
     */

    protected final long getSequenceNumber() {

```

```

        return (sequence == -1 ? -1L : ((long)sequence)<<32);
    }

    /**
     * Determine if the node has any children.
     */

    public final boolean hasChildNodes() {
        return (children!=null);
    }

    /**
     * Determine how many children the node has
     * @return the number of children of this parent node
     */

    public int getNumberOfChildren() {
        if (children == null) {
            return 0;
        } else if (children instanceof NodeImpl) {
            return 1;
        } else {
            return ((NodeInfo[])children).length;
        }
    }

    /**
     * Get an enumeration of the children of this node
     * @param test A NodeTest to be satisfied by the child nodes, or null
     * if all child node are to be returned
     * @return an iterator over the children of this node
     */

    protected final AxisIterator enumerateChildren(NodeTest test) {
        if (children==null) {
            return EmptyIterator.getInstance();
        } else if (children instanceof NodeImpl) {
            NodeImpl child = (NodeImpl)children;
            if (test == null || test instanceof AnyNodeTest) {
                return SingleNodeIterator.makeIterator(child);
            } else {
                return Navigator.filteredSingleton(child, test);
            }
        } else {
            if (test == null || test instanceof AnyNodeTest) {
                return new NodeArrayIterator((NodeImpl[])children);
            } else {
                return new ChildEnumeration(this, test);
            }
        }
    }

```



```

    }
  }
}

/**
 * Get the first child node of the element
 * @return the first child node of the required type, or null if there are no children
 */

public final NodeInfo getFirstChild() {
    if (children==null) return null;
    if (children instanceof NodeImpl) return (NodeImpl)children;
    return ((NodeImpl[])children)[0];
}

/**
 * Get the last child node of the element
 * @return the last child of the element, or null if there are no children
 */

public final NodeInfo getLastChild() {
    if (children==null) return null;
    if (children instanceof NodeImpl) return (NodeImpl)children;
    NodeImpl[] n = (NodeImpl[])children;
    return n[n.length-1];
}

/**
 * Get the nth child node of the element (numbering from 0)
 * @param n identifies the required child
 * @return the last child of the element, or null if there is no n'th child
 */

protected final NodeImpl getNthChild(int n) {
    if (children==null) return null;
    if (children instanceof NodeImpl) {
        return (n==0 ? (NodeImpl)children : null);
    }
    NodeImpl[] nodes = (NodeImpl[])children;
    if (n<0 || n>=nodes.length) return null;
    return nodes[n];
}

/**
 * Remove a given child
 * @param child the child to be removed
 */

```

```

protected void removeChild(NodeImpl child) {
    if (children == null) {
        return;
    }
    if (children == child) {
        children = null;
        return;
    }
    NodeImpl[] nodes = (NodeImpl[])children;
    for (int i=0; i<nodes.length; i++) {
        if (nodes[i] == child) {
            if (nodes.length == 2) {
                children = nodes[1-i];
            } else {
                NodeImpl[] n2 = new NodeImpl[nodes.length - 1];
                if (i > 0) {
                    System.arraycopy(nodes, 0, n2, 0, i);
                }
                if (i < nodes.length - 1) {
                    System.arraycopy(nodes, i+1, n2, i, nodes.length-i-1);
                }
                children = cleanUpChildren(n2);
            }
            break;
        }
    }
}

/**
 * Tidy up the children of the node. Merge adjacent text nodes; remove zero-length text nodes;
 * reallocate index numbers to each of the children
 * @param children the existing children
 * @return the replacement array of children
 */

private NodeImpl[] cleanUpChildren(NodeImpl[] children) {
    boolean prevText = false;
    int j = 0;
    NodeImpl[] c2 = new NodeImpl[children.length];
    for (int i=0; i<children.length; i++) {
        NodeImpl node = children[i];
        if (node instanceof TextImpl) {
            if (prevText) {
                TextImpl prev = ((TextImpl)c2[j-1]);
                prev.replaceStringValue(prev.getStringValue() + node.getStringValue());
            } else if (node.getStringValue().length() > 0) {
                prevText = true;
            }
        }
    }
}

```

```

        node.index = j;
        c2[j++] = node;
    }
} else {
    node.index = j;
    c2[j++] = node;
    prevText = false;
}
}
if (j == c2.length) {
    return c2;
} else {
    NodeImpl[] c3 = new NodeImpl[j];
    System.arraycopy(c2, 0, c3, 0, j);
    return c3;
}
}

/**
 * Return the string-value of the node, that is, the concatenation
 * of the character content of all descendent elements and text nodes.
 * @return the accumulated character content of the element, including descendant elements.
 */

public String getStringValue() {
    return getStringValueCS().toString();
}

public CharSequence getStringValueCS() {
    FastStringBuffer sb = null;

    NodeImpl next = (NodeImpl)getFirstChild();
    while (next!=null) {
        if (next instanceof TextImpl) {
            if (sb==null) {
                sb = new FastStringBuffer(1024);
            }
            sb.append(next.getStringValueCS());
        }
        next = next.getNextInDocument(this);
    }
    if (sb==null) return "";
    return sb.condense();
}

/**

```

\* Supply an array to be used for the array of children. For system use only.

\* @param array the array to be used

\*/

```
protected void useChildrenArray(NodeImpl[] array) {
    children = array;
}
```

/\*\*

\* Add a child node to this node. For system use only. Note: normalizing adjacent text nodes

\* is the responsibility of the caller.

\* @param node the node to be added as a child of this node

\* @param index the position where the child is to be added

\*/

```
public synchronized void addChild(NodeImpl node, int index) {
    NodeImpl[] c;
    if (children == null) {
        c = new NodeImpl[10];
    } else if (children instanceof NodeImpl) {
        c = new NodeImpl[10];
        c[0] = (NodeImpl)children;
    } else {
        c = (NodeImpl[])children;
    }
    if (index >= c.length) {
        NodeImpl[] kids = new NodeImpl[c.length * 2];
        System.arraycopy(c, 0, kids, 0, c.length);
        c = kids;
    }
    c[index] = node;
    node.parent = this;
    node.index = index;
    children = c;
}
```

/\*\*

\* Insert copies of a sequence of nodes as children of this node.

\* <p/>

\* <p>This method takes no action unless the target node is a document node or element node. It also

\* takes no action in respect of any supplied nodes that are not elements, text nodes, comments, or

\* processing instructions.</p>

\* <p/>

\* <p>The supplied nodes will be copied to form the new children. Adjacent text nodes will be merged, and

\* zero-length text nodes removed.</p>

\*

\* @param source the nodes to be inserted

```

* @param atStart true if the new nodes are to be inserted before existing children; false if they are
* @param inherit true if the inserted nodes are to inherit the namespaces that are in-scope for their
* new parent; false if such namespaces should be undeclared on the children
*/

```

```

public void insertChildren(NodeInfo[] source, boolean atStart, boolean inherit) {
    if (atStart) {
        insertChildrenAt(source, 0, inherit);
    } else {
        insertChildrenAt(source, getNumberOfChildren(), inherit);
    }
}

```

```

/**
* Insert children before or after a given existing child
* @param source the children to be inserted
* @param index the position before which they are to be inserted: 0 indicates insertion before the
* first child, 1 insertion before the second child, and so on.
* @param inherit true if the inserted nodes are to inherit the namespaces that are in-scope for their
* new parent; false if such namespaces should be undeclared on the children
*/

```

```

protected synchronized void insertChildrenAt(NodeInfo[] source, int index, boolean inherit) {
    if (source.length == 0) {
        return;
    }
    for (int i=0; i<source.length; i++) {
        NodeImpl child = (NodeImpl)source[i];
        child.parent = this;
        if (child instanceof ElementImpl) {
            // If the child has no xmlns="xxx" declaration, then add an xmlns="" to prevent false inheritance
            // from the new parent
            ((ElementImpl)child).fixupInsertedNamespaces(inherit);
        }
    }
    if (children == null) {
        if (source.length == 1) {
            children = source[0];
        } else {
            NodeImpl[] n2 = new NodeImpl[source.length];
            System.arraycopy(source, 0, n2, 0, source.length);
            children = n2;
        }
    } else if (children instanceof NodeImpl) {
        int adjacent = (index==0 ? 0 : source.length - 1);
        if (children instanceof TextImpl && source[adjacent] instanceof TextImpl) {
            if (index == 0) {
                ((TextImpl)source[adjacent]).replaceStringValue(

```

```

        source[adjacent].getStringValue() + ((TextImpl)children).getStringValue());
    } else {
        ((TextImpl)source[adjacent]).replaceStringValue(
            ((TextImpl)children).getStringValue() + source[adjacent].getStringValue());
    }
    NodeImpl[] n2 = new NodeImpl[source.length];
    System.arraycopy(source, 0, n2, 0, source.length);
    children = n2;
} else {
    NodeImpl[] n2 = new NodeImpl[source.length + 1];
    if (index == 0) {
        System.arraycopy(source, 0, n2, 0, source.length);
        n2[source.length] = (NodeImpl)children;
    } else {
        n2[0] = (NodeImpl)children;
        System.arraycopy(source, 0, n2, 1, source.length);
    }
    children = cleanUpChildren(n2);
}
} else {
    NodeImpl[] n0 = (NodeImpl[])children;
    NodeImpl[] n2 = new NodeImpl[n0.length + source.length];
    System.arraycopy(n0, 0, n2, 0, index);
    System.arraycopy(source, 0, n2, index, source.length);
    System.arraycopy(n0, index, n2, index+source.length, n0.length - index);
    children = cleanUpChildren(n2);
}
}

/**
 * Replace child at a given index by new children
 * @param source the children to be inserted
 * @param index the position at which they are to be inserted: 0 indicates replacement of the
 * first child, replacement of the second child, and so on. The effect is undefined if index
 * is out of range
 * @param inherit set to true if the new child elements are to inherit the in-scope namespaces
 * of their new parent
 * @throws IllegalArgumentException if any of the replacement nodes is not an element, text,
 * comment, or processing instruction node
 */
protected synchronized void replaceChildrenAt(NodeInfo[] source, int index, boolean inherit) {
    if (children == null) {
        return;
    }
    for (int i=0; i<source.length; i++) {
        NodeImpl child = (NodeImpl)source[i];
        child.parent = this;
    }
}

```

```

int kind = child.getNodeKind();
switch (kind) {
    case Type.ELEMENT:
        // If the child has no xmlns="xxx" declaration, then add an xmlns="" to prevent false inheritance
        // from the new parent
        ((ElementImpl)child).fixupInsertedNamespaces(inherit);
        break;
    case Type.COMMENT:
    case Type.TEXT:
    case Type.PROCESSING_INSTRUCTION:
        break;
    default:
        throw new IllegalArgumentException(
            "Replacement child node is not an element, text, comment, or PI");
}
}
if (children instanceof NodeImpl) {
    if (source.length == 0) {
        children = null;
    } else if (source.length == 1) {
        children = source[0];
    } else {
        NodeImpl[] n2 = new NodeImpl[source.length];
        System.arraycopy(source, 0, n2, 0, source.length);
        children = cleanUpChildren(n2);
    }
} else {
    NodeImpl[] n0 = (NodeImpl[])children;
    NodeImpl[] n2 = new NodeImpl[n0.length + source.length - 1];
    System.arraycopy(n0, 0, n2, 0, index);
    System.arraycopy(source, 0, n2, index, source.length);
    System.arraycopy(n0, index + 1, n2, index+source.length, n0.length - index - 1);
    children = cleanUpChildren(n2);
}
}

/**
 * Compact the space used by this node
 * @param size the number of actual children
 */

public synchronized void compact(int size) {
    if (size==0) {
        children = null;
    } else if (size==1) {
        if (children instanceof NodeImpl[]) {

```

```

        children = ((NodeImpl[])children)[0];
    }
} else {
    NodeImpl[] kids = new NodeImpl[size];
    System.arraycopy(children, 0, kids, 0, size);
    children = kids;
}
}

}

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//
package net.sf.saxon.tree;
import net.sf.saxon.Configuration;
import net.sf.saxon.value.Whitespace;
import net.sf.saxon.event.Receiver;
import net.sf.saxon.event.Builder;
import net.sf.saxon.om.*;
import net.sf.saxon.trans.XPathException;
import net.sf.saxon.type.Type;

import java.util.ArrayList;
import java.util.HashMap;
import java.util.Iterator;
import java.util.Collections;

/**
 * A node in the XML parse tree representing the Document itself (or equivalently, the root
 * node of the Document).

```



```
*
* <p>A DocumentImpl object may either represent a real document node, or it may represent an imaginary
* container for a parentless element.</p>
* @author Michael H. Kay
*/
```

```
public final class DocumentImpl extends ParentNodeImpl implements DocumentInfo {
```

```
    //private static int nextDocumentNumber = 0;
```

```
    private ElementImpl documentElement;
```

```
    private HashMap idTable = null;
```

```
    private int documentNumber;
```

```
    private String baseURI;
```

```
    private HashMap entityTable = null;
```

```
    private HashMap elementList = null;
```

```
    //private StringBuffer characterBuffer;
```

```
    private Configuration config;
```

```
    private LineNumberMap lineNumberMap;
```

```
    private SystemIdMap systemIdMap = new SystemIdMap();
```

```
    private boolean imaginary = false;
```

```
    /**
```

```
     * Create a DocumentImpl
```

```
     */
```

```
    public DocumentImpl() {
```

```
        parent = null;
```

```
    }
```

```
    /**
```

```
     * Set the Configuration that contains this document
```

```
     * @param config the Saxon configuration
```

```
     */
```

```
    public void setConfiguration(Configuration config) {
```

```
        this.config = config;
```

```
        documentNumber = config.getDocumentNumberAllocator().allocateDocumentNumber();
```

```
    }
```

```
    /**
```

```
     * Get the configuration previously set using setConfiguration
```

```
     * @return the Saxon configuration
```

```
     */
```

```
    public Configuration getConfiguration() {
```

```
        return config;
```

```

    }

    /**
     * Get the name pool used for the names in this document
     */

    public NamePool getNamePool() {
        return config.getNamePool();
    }

    /**
     * Get a Builder suitable for building nodes that can be attached to this document.
     * @return a new TreeBuilder
     */

    public Builder newBuilder() {
        TreeBuilder builder = new TreeBuilder();
        builder.setAllocateSequenceNumbers(false);
        return builder;
    }

    /**
     * Set whether this is an imaginary document node
     * @param imaginary if true, this is an imaginary node - the tree is really rooted at the topmost element
     */

    public void setImaginary(boolean imaginary) {
        this.imaginary = imaginary;
    }

    /**
     * Ask whether this is an imaginary document node
     * @return true if this is an imaginary node - the tree is really rooted at the topmost element
     */

    public boolean isImaginary() {
        return imaginary;
    }

    /**
     * Get the unique document number
     */

    public int getDocumentNumber() {
        return documentNumber;
    }

    /**

```

```

* Set the top-level element of the document (variously called the root element or the
* document element). Note that a DocumentImpl may represent the root of a result tree
* fragment, in which case there is no document element.
* @param e the top-level element
*/

void setDocumentElement(ElementImpl e) {
    documentElement = e;
}

/**
 * Copy the system ID and line number map from another document
 * (used when grafting a simplified stylesheet)
 * @param original the document whose system ID and line number maps are to be grafted
 * onto this tree
 */

public void graftLocationMap(DocumentImpl original) {
    systemIdMap = original.systemIdMap;
    lineNumberMap = original.lineNumberMap;
}

/**
 * Set the system id (base URI) of this node
 */

public void setSystemId(String uri) {
    if (uri==null) {
        uri = "";
    }
    systemIdMap.setSystemId(sequence, uri);
}

/**
 * Get the system id of this root node
 */

public String getSystemId() {
    return systemIdMap.getSystemId(sequence);
}

/**
 * Set the base URI of this document node
 * @param uri the new base URI
 */

public void setBaseURI(String uri) {
    baseURI = uri;
}

```

```

}

/**
 * Get the base URI of this root node.
 * @return the base URI
 */

public String getBaseURI() {
    if (baseURI != null) {
        return baseURI;
    }
    return getSystemId();
}

/**
 * Set the system id of an element in the document
 * @param seq the sequence number of the element
 * @param uri the system identifier (base URI) of the element
 */

void setSystemId(int seq, String uri) {
    if (uri==null) {
        uri = "";
    }
    systemIdMap.setSystemId(seq, uri);
}

/**
 * Get the system id of an element in the document
 * @param seq the sequence number of the element
 * @return the systemId (base URI) of the element
 */

String getSystemId(int seq) {
    return systemIdMap.getSystemId(seq);
}

/**
 * Set line numbering on
 */

public void setLineNumbering() {
    lineNumberMap = new LineNumberMap();
    lineNumberMap.setLineAndColumn(sequence, 0, -1);
}

```

```

/**
 * Set the line number for an element. Ignored if line numbering is off.
 * @param sequence the sequence number of the element
 * @param line the line number of the element
 * @param column the column number of the element
 */

void setLineAndColumn(int sequence, int line, int column) {
    if (lineNumberMap != null && sequence >= 0) {
        lineNumberMap.setLineAndColumn(sequence, line, column);
    }
}

/**
 * Get the line number for an element.
 * @param sequence the sequence number of the element
 * @return the line number for an element. Return -1 if line numbering is off, or if
 * the element was added subsequent to document creation by use of XQuery update
 */

int getLineNumber(int sequence) {
    if (lineNumberMap != null && sequence >= 0) {
        return lineNumberMap.getLineNumber(sequence);
    }
    return -1;
}

/**
 * Get the column number for an element.
 * @param sequence the sequence number of the element
 * @return the column number for an element. Return -1 if line numbering is off, or if
 * the element was added subsequent to document creation by use of XQuery update
 */

int getColumnNumber(int sequence) {
    if (lineNumberMap != null && sequence >= 0) {
        return lineNumberMap.getColumnNumber(sequence);
    }
    return -1;
}

/**
 * Get the line number of this root node.
 * @return 0 always
 */

```

```

public int getLineNumber() {
    return 0;
}

/**
 * Return the type of node.
 * @return Type.DOCUMENT (always)
 */

public final int getNodeKind() {
    return Type.DOCUMENT;
}

/**
 * Get next sibling - always null
 * @return null
 */

public final NodeInfo getNextSibling() {
    return null;
}

/**
 * Get previous sibling - always null
 * @return null
 */

public final NodeInfo getPreviousSibling() {
    return null;
}

/**
 * Get the root (outermost) element.
 * @return the Element node for the outermost element of the document.
 */

public ElementImpl getDocumentElement() {
    return documentElement;
}

/**
 * Get the root node
 * @return the NodeInfo representing the root of this tree
 */

public NodeInfo getRoot() {
    return this;
}

```

```

/**
 * Get the root (document) node
 * @return the DocumentInfo representing this document
 */

public DocumentInfo getDocumentRoot() {
    return this;
}

/**
 * Get the physical root of the tree. This may be an imaginary document node: this method
 * should be used only when control information held at the physical root is required
 * @return the document node, which may be imaginary
 */

public DocumentImpl getPhysicalRoot() {
    return this;
}

/**
 * Get a character string that uniquely identifies this node
 * @param buffer a buffer into which will be placed a string based on the document number
 *
 */

public void generateId(FastStringBuffer buffer) {
    buffer.append('d');
    buffer.append(Integer.toString(documentNumber));
}

/**
 * Get a list of all elements with a given name fingerprint
 * @param fingerprint the fingerprint of the required element name
 * @return an iterator over all the elements with this name
 */

AxisIterator getAllElements(int fingerprint) {
    Integer elkey = new Integer(fingerprint);
    if (elementList==null) {
        elementList = new HashMap(500);
    }
    ArrayList list = (ArrayList)elementList.get(elkey);
    if (list==null) {
        list = new ArrayList(500);
        NodeImpl next = getNextInDocument(this);
        while (next!=null) {
            if (next.getNodeKind()==Type.ELEMENT &&

```

```

        next.getFingerprint() == fingerprint) {
            list.add(next);
        }
        next = next.getNextInDocument(this);
    }
    elementList.put(elkey, list);
}
return new NodeListIterator(list);
}

/**
 * Remove a node from any indexes when it is detached from the tree
 * @param node the node to be removed from all indexes
 */

public void deIndex(NodeImpl node) {
    // TODO: remove from xsl:key indexes (can exist in XQuery as a result of optimization!)
    if (node instanceof ElementImpl) {
        if (elementList!=null) {
            Integer elkey = new Integer(node.getFingerprint());
            ArrayList list = (ArrayList)elementList.get(elkey);
            if (list==null) {
                return;
            }
            list.remove(node);
        }
        if (node.isId()) {
            deregisterID(node.getStringValue());
        }
    } else if (node instanceof AttributeImpl) {
        if (node.isId()) {
            deregisterID(node.getStringValue());
        }
    }
}

/**
 * Index all the ID attributes. This is done the first time the id() function
 * is used on this document, or the first time that id() is called after a sequence of updates
 */

private void indexIDs() {
    if (idTable!=null) {
        return; // ID's are already indexed
    }
    idTable = new HashMap(256);
    NameChecker checker = getConfiguration().getNameChecker();

```



```

NodeImpl curr = this;
NodeImpl root = curr;
while(curr!=null) {
    if (curr.getNodeKind()==Type.ELEMENT) {
        //noinspection ConstantConditions
        ElementImpl e = (ElementImpl)curr;
        AttributeCollection atts = e.getAttributeList();
        for (int i=0; i<atts.getLength(); i++) {
            if (atts.isId(i) && checker.isValidNCName(Whitespace.trim(atts.getValue(i)))) {
                // don't index any invalid IDs - these can arise when using a non-validating parser
                registerID(e, Whitespace.trim(atts.getValue(i)));
            }
        }
    }
    curr = curr.getNextInDocument(root);
}
}

/**
 * Register a unique element ID. Does nothing if there is already an element with that ID.
 * @param e The Element having a particular unique ID value
 * @param id The unique ID value
 */

protected void registerID(NodeInfo e, String id) {
    // the XPath spec (5.2.1) says ignore the second ID if it's not unique
    if (idTable == null) {
        idTable = new HashMap(256);
    }
    Object old = idTable.get(id);
    if (old==null) {
        idTable.put(id, e);
    }
}

/**
 * Get the element with a given ID.
 * @param id The unique ID of the required element, previously registered using registerID()
 * @return The NodeInfo for the given ID if one has been registered, otherwise null.
 */

public NodeInfo selectID(String id) {
    if (idTable==null) indexIDs();
    return (NodeInfo)idTable.get(id);
}

/**
 * Remove the entry for a given ID (when nodes are deleted). Does nothing if the id value is not

```

```

* present in the index.
* @param id The id value
*/

protected void deregisterID(String id) {
    id = Whitespace.trim(id);
    if (idTable != null) {
        idTable.remove(id);
    }
}

/**
 * Set an unparsed entity URI associated with this document. For system use only, while
 * building the document.
 * @param name the entity name
 * @param uri the system identifier of the unparsed entity
 * @param publicId the public identifier of the unparsed entity
 */

void setUnparsedEntity(String name, String uri, String publicId) {
    // System.err.println("setUnparsedEntity( " + name + ", " + uri + ")");
    if (entityTable==null) {
        entityTable = new HashMap(10);
    }
    String[] ids = new String[2];
    ids[0] = uri;
    ids[1] = publicId;
    entityTable.put(name, ids);
}

/**
 * Get the list of unparsed entities defined in this document
 * @return an Iterator, whose items are of type String, containing the names of all
 * unparsed entities defined in this document. If there are no unparsed entities or if the
 * information is not available then an empty iterator is returned
 */

public Iterator getUnparsedEntityNames() {
    if (entityTable == null) {
        return Collections.EMPTY_LIST.iterator();
    } else {
        return entityTable.keySet().iterator();
    }
}

/**
 * Get the unparsed entity with a given name
 * @param name the name of the entity

```

```

* @return if the entity exists, return an array of two Strings, the first holding the system ID
* of the entity, the second holding the public ID if there is one, or null if not. If the entity
* does not exist, return null. * @return the URI of the entity if there is one, or empty string if not
*/

public String[] getUnparsedEntity(String name) {
    if (entityTable==null) {
        return null;
    }
    return (String[])entityTable.get(name);
}

/**
 * Copy this node to a given outputter
 */

public void copy(Receiver out, int whichNamespaces, boolean copyAnnotations, int locationId) throws
XPathException {
    out.startDocument(0);
    NodeImpl next = (NodeImpl)getFirstChild();
    while (next!=null) {
        next.copy(out, whichNamespaces, copyAnnotations, locationId);
        next = (NodeImpl)next.getNextSibling();
    }
    out.endDocument();
}

/**
 * Replace the string-value of this node
 *
 * @param stringValue the new string value
 */

public void replaceStringValue(CharSequence stringValue) {
    throw new UnsupportedOperationException("Cannot replace the value of a document node");
}

}

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```

```

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//
package net.sf.saxon.tree;
import net.sf.saxon.event.Receiver;
import net.sf.saxon.trans.XPathException;
import net.sf.saxon.type.Type;
import net.sf.saxon.om.SequenceIterator;
import net.sf.saxon.om.SingletonIterator;
import net.sf.saxon.value.StringValue;
import net.sf.saxon.value.Value;

/**
 * ProcInstImpl is an implementation of ProcInstInfo used by the Propagator to construct
 * its trees.
 * @author Michael H. Kay
 */

class ProcInstImpl extends NodeImpl {

    String content;
    int nameCode;
    String systemId;
    int lineNumber = -1;

    public ProcInstImpl(int nameCode, String content) {
        this.nameCode = nameCode;
        this.content = content;
    }

    /**
     * Get the nameCode of the node. This is used to locate the name in the NamePool
     */

    public int getNameCode() {
        return nameCode;
    }

    public String getStringValue() {
        return content;
    }

    /**
     * Get the typed value of this node.
     * Returns the string value, as an instance of xs:string

```

```

*/

public SequenceIterator getTypedValue() {
    return SingletonIterator.makeIterator(new StringValue(getStringValue()));
}

/**
 * Get the typed value of this node.
 * Returns the string value, as an instance of xs:string
 */

public Value atomize() {
    return new StringValue(getStringValue());
}

public final int getNodeKind() {
    return Type.PROCESSING_INSTRUCTION;
}

/**
 * Set the system ID and line number
 * @param uri the system identifier
 * @param lineNumber the line number
 */

public void setLocation(String uri, int lineNumber) {
    this.systemId = uri;
    this.lineNumber = lineNumber;
}

/**
 * Get the system ID for the entity containing this node.
 * @return the system identifier
 */

public String getSystemId() {
    return systemId;
}

/**
 * Get the line number of the node within its source entity
 */

public int getLineNumber() {
    return lineNumber;
}

/**

```

```

* Copy this node to a given outputter
*/

public void copy(Receiver out, int whichNamespaces, boolean copyAnnotations, int locationId) throws
XPathException {
    out.processingInstruction(getLocalPart(), content, locationId, 0);
}

// DOM methods

/**
 * The target of this processing instruction. XML defines this as being
 * the first token following the markup that begins the processing
 * instruction.
 * @return the processing instruction name
 */

public String getTarget() {
    return getLocalPart();
}

/**
 * The content of this processing instruction. This is from the first non
 * white space character after the target to the character immediately
 * preceding the <code>?&gt;</code> .
 * @return the string value of the processing instruction node
 */

public String getData() {
    return content;
}

/**
 * Rename this node
 *
 * @param newNameCode the NamePool code of the new name
 */

public void rename(int newNameCode) {
    nameCode = newNameCode;
}

/**
 * Replace the string-value of this node
 *
 * @param stringValue the new string value

```

```

*/

public void replaceStringValue(CharSequence stringValue) {
    content = stringValue.toString();
}
}

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//
package net.sf.saxon.tree;
import net.sf.saxon.event.Receiver;
import net.sf.saxon.trans.XPathException;
import net.sf.saxon.type.Type;

/**
 * A node in the XML parse tree representing character content<P>
 * @author Michael H. Kay
 */

final class TextImpl extends NodeImpl {

    private String content;

    public TextImpl(ParentNodeImpl parent, String content) {
        this.parent = parent;
        this.content = content;
    }

    /**
     * Return the character value of the node.
     * @return the string value of the node
     */
}

```

```

public String getStringValue() {
return content;
}

/**
 * Return the type of node.
 * @return Type.TEXT
 */

public final int getNodeKind() {
return Type.TEXT;
}

/**
 * Copy this node to a given outputter
 */

public void copy(Receiver out, int whichNamespaces, boolean copyAnnotations, int locationId) throws
XPathException {
out.characters(content, locationId, 0);
}

/**
 * Replace the string-value of this node
 *
 * @param stringValue the new string value
 */

public void replaceStringValue(CharSequence stringValue) {
if (stringValue.length() == 0) {
delete();
} else {
content = stringValue.toString();
}
}
}

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```



```

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//
package net.sf.saxon.s9api;

import net.sf.saxon.om.Item;
import net.sf.saxon.value.AtomicValue;

/**
 * The class XdmItem represents an item in a sequence, as defined by the XDM data model.
 * An item is either an atomic value or a node.
 *
 * <p>An item is a member of a sequence, but it can also be considered as a sequence
 * (of length one) in its own right. <tt>XdmItem</tt> is a subtype of <tt>XdmValue</tt> because every
 * Item in the XDM data model is also a value.</p>
 *
 * <p>It cannot be assumed that every sequence of length one will be represented by
 * an <tt>XdmItem</tt>. It is quite possible for an <tt>XdmValue</tt> that is not an <tt>XdmItem</tt> to hold
 * a singleton sequence.</p>
 *
 * <p>Saxon provides two concrete subclasses of <code>XdmItem</code>, namely
 * { @link XdmNode } and { @link XdmAtomicValue }. Users must not attempt to create
 * additional subclasses.</p>
 */

public abstract class XdmItem extends XdmValue {

    // internal protected constructors

    protected XdmItem() { }

    protected XdmItem(Item item) {
        super(item);
    }

    // internal factory method to wrap an Item

    protected static XdmItem wrapItem(Item item) {
        return item == null ? null : (XdmItem)XdmValue.wrap(item);
    }
}

```

```

/**
 * Factory method to construct an atomic value given its lexical representation and the
 * required item type
 * @param value the lexical representation of the required value
 * @param type the item type of the required value
 * @return the constructed item
 * @throws SaxonApiException if the supplied string is not in the lexical space of the target type, or
 * if the target type is not atomic
 * @deprecated since 9.1. This factory method duplicates the constructor
 * {@link XdmAtomicValue#XdmAtomicValue(String, ItemType)} which should be used in preference
 */

public static XdmItem newAtomicValue(String value, ItemType type) throws SaxonApiException {
    return new XdmAtomicValue(value, type);
}

/**
 * Get the string value of the item. For a node, this gets the string value
 * of the node. For an atomic value, it has the same effect as casting the value
 * to a string. In all cases the result is the same as applying the XPath string()
 * function.
 *
 * <p>For atomic values, the result is the same as the result of calling
 * <code>toString</code>. This is not the case for nodes, where <code>toString</code>
 * returns an XML serialization of the node.</p>
 *
 * @return the result of converting the item to a string.
 */

public String getStringValue() {
    //noinspection RedundantCast
    return ((Item)getUnderlyingValue()).getStringValue();
}

/**
 * Determine whether the item is an atomic value or a node
 * @return true if the item is an atomic value, false if it is a node
 */

public boolean isAtomicValue() {
    return ((Item)getUnderlyingValue()) instanceof AtomicValue;
}

/**
 * Get the number of items in the sequence
 * @return the number of items in the value - always one
 */

```

```

@Override
public int size() {
    return 1;
}

}

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//
package net.sf.saxon.s9api;

/**
 * WhitespaceStrippingPolicy is an enumeration class defining the possible policies for handling
 * whitespace text nodes in a source document.
 */

public enum WhitespaceStrippingPolicy {
    /**
     * The value NONE indicates that all whitespace text nodes are retained
     */
    NONE,
    /**
     * The value IGNOREABLE indicates that whitespace text nodes in element-only content are
     * discarded. Content is element-only if it is defined by a schema or DTD definition that
     * does not allow mixed or PCDATA content.
     */
    IGNOREABLE,
    /**
     * The value ALL indicates that all whitespace-only text nodes are discarded.
     */
    ALL,
    /**
     * UNSPECIFIED means that no other value has been specifically requested.
     */
    UNSPECIFIED
}

```

```

}

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package net.sf.saxon.event;

import net.sf.saxon.trans.XPathException;
import net.sf.saxon.charcode.UnicodeCharacterSet;

import javax.xml.transform.OutputKeys;

/**
 * This class generates TEXT output
 * @author Michael H. Kay
 */

public class TEXTEmitter extends XMLEmitter {

    /**
     * Start of the document.
     */

    public void open () throws XPathException {}

    protected void openDocument() throws XPathException {

        if (writer==null) {
            makeWriter();
        }
        if (characterSet==null) {
            characterSet = UnicodeCharacterSet.getInstance();
        }
        // Write a BOM if requested
        String encoding = outputProperties.getProperty(OutputKeys.ENCODING);
        if (encoding==null || encoding.equalsIgnoreCase("utf8")) {

```

```

        encoding = "UTF-8";
    }
    String byteOrderMark = outputProperties.getProperty(SaxonOutputKeys.BYTE_ORDER_MARK);

    if ("yes".equals(byteOrderMark) && (
        "UTF-8".equalsIgnoreCase(encoding) ||
        "UTF-16LE".equalsIgnoreCase(encoding) ||
        "UTF-16BE".equalsIgnoreCase(encoding))) {
        try {
            writer.write("\uFEFF");
            empty = false;
        } catch (java.io.IOException err) {
            // Might be an encoding exception; just ignore it
        }
    }
}

/**
 * Output the XML declaration. This implementation does nothing.
 */

public void writeDeclaration() throws XPathException { }

/**
 * Produce output using the current Writer. <BR>
 * Special characters are not escaped.
 * @param chars Character sequence to be output
 * @param properties bit fields holding special properties of the characters
 * @exception XPathException for any failure
 */

public void characters(CharSequence chars, int locationId, int properties) throws XPathException {
    if (empty) {
        openDocument();
    }
    if ((properties & ReceiverOptions.NO_SPECIAL_CHARS) == 0) {
        int badchar = testCharacters(chars);
        if (badchar != 0) {
            throw new XPathException(
                "Output character not available in this encoding (decimal " + badchar + ")");
        }
    }
    try {
        writer.write(chars.toString());
    } catch (java.io.IOException err) {
        throw new XPathException(err);
    }
}

```

```

/**
 * Output an element start tag. <br>
 * Does nothing with this output method.
 * @param nameCode The element name (tag)
 * @param typeCode The type annotation
 * @param properties Bit fields holding any special properties of the element
 */

public void startElement(int nameCode, int typeCode, int locationId, int properties) {
    // no-op
}

public void namespace(int namespaceCode, int properties) {}

public void attribute(int nameCode, int typeCode, CharSequence value, int locationId, int properties) {}

/**
 * Output an element end tag. <br>
 * Does nothing with this output method.
 */

public void endElement() {
    // no-op
}

/**
 * Output a processing instruction. <br>
 * Does nothing with this output method.
 */

public void processingInstruction(String name, CharSequence value, int locationId, int properties) throws
XPathException {}

/**
 * Output a comment. <br>
 * Does nothing with this output method.
 */

public void comment(CharSequence chars, int locationId, int properties) throws XPathException {}

}

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//
package net.sf.saxon.event;
import net.sf.saxon.Configuration;
import net.sf.saxon.charcode.CharacterSet;
import net.sf.saxon.charcode.CharacterSetFactory;
import net.sf.saxon.charcode.PluggableCharacterSet;
import net.sf.saxon.charcode.UnicodeCharacterSet;
import net.sf.saxon.om.NamePool;
import net.sf.saxon.trans.XPathException;

import javax.xml.transform.OutputKeys;
import javax.xml.transform.Result;
import javax.xml.transform.TransformerException;
import javax.xml.transform.stream.StreamResult;
import java.io.*;
import java.net.URI;
import java.net.URISyntaxException;
import java.util.Properties;

/**
 * Emitter: This abstract class defines methods that must be implemented by
 * components that format SAXON output. There is one emitter for XML,
 * one for HTML, and so on. Additional methods are concerned with
 * setting options and providing a Writer.<p>
 *
 * The interface is deliberately designed to be as close as possible to the
 * standard SAX2 ContentHandler interface, however, it allows additional
 * information to be made available.
 *
 * An Emitter is a Receiver, specifically it is a Receiver that can direct output
 * to a Writer or OutputStream, using serialization properties defined in a Properties
 * object.
 */

public abstract class Emitter implements Result, Receiver

```

```

{
    protected PipelineConfiguration pipelineConfig;
    protected NamePool namePool;
    protected String systemId;
    protected StreamResult streamResult;
    protected Writer writer;
    protected OutputStream outputStream;
    protected Properties outputProperties;
    protected CharacterSet characterSet = null;
    protected boolean allCharactersEncodable = false;

    /**
     * Set the pipelineConfiguration
     */

    public void setPipelineConfiguration(PipelineConfiguration pipe) {
        pipelineConfig = pipe;
        namePool = pipe.getConfiguration().getNamePool();
    }

    /**
     * Get the pipeline configuration used for this document
     */

    public PipelineConfiguration getPipelineConfiguration() {
        return pipelineConfig;
    }

    /**
     * Get the configuration used for this document
     * @return the configuration
     */

    public Configuration getConfiguration() {
        return pipelineConfig.getConfiguration();
    }

    /**
     * Set the System ID
     * @param systemId the system identifier (=base URI)
     */

    public void setSystemId(String systemId) {
        this.systemId = systemId;
    }

    /**
     * Get the System ID

```



```

*/

public String getSystemId() {
    return systemId;
}

/**
 * Set output properties
 * @param details the output serialization properties
 */

public void setOutputProperties(Properties details) throws XPathException {
    if (characterSet==null) {
        characterSet = CharacterSetFactory.getCharacterSet(details, getPipelineConfiguration());
        allCharactersEncodable = (characterSet instanceof UnicodeCharacterSet);
    }
    outputProperties = details;
}

/**
 * Get the output properties
 * @return the output serialization properties
 */

public Properties getOutputProperties() {
    return outputProperties;
}

/**
 * Set the StreamResult acting as the output destination of the Emitter
 * @param result the output destination
 */

public void setStreamResult(StreamResult result) throws XPathException {
    streamResult = result;
    if (systemId == null) {
        systemId = result.getSystemId();
    }
}

/**
 * Make a Writer for this Emitter to use, given a StreamResult.
 */

protected void makeWriter() throws XPathException {
    if (writer != null) {
        return;
    }
}

```

```

if (streamResult == null) {
    throw new IllegalStateException("Emitter must have either a Writer or a StreamResult to write to");
}
writer = streamResult.getWriter();
if (writer == null) {
    OutputStream os = streamResult.getOutputStream();
    if (os != null) {
        setOutputStream(os);
    }
}
if (writer == null) {
    String uriString = streamResult.getSystemId();
    if (uriString == null) {
        throw new XPathException("No system ID supplied for result file");
    }

    try {
        URI uri = new URI(uriString);
        if (!uri.isAbsolute()) {
            try {
                uri = new File(uriString).getAbsolutePath().toURI();
            } catch (Exception e) {
                // if we fail, we'll get another exception
            }
        }
        File file = new File(uri);
        setOutputStream(new FileOutputStream(file));
        // Set the outputstream in the StreamResult object so that the
        // call on OutputURIResolver.close() can close it
        streamResult.setOutputStream(outputStream);
    } catch (FileNotFoundException fnf) {
        throw new XPathException(fnf);
    } catch (URISyntaxException use) {
        throw new XPathException(use);
    } catch (IllegalArgumentException iae) {
        // for example, the system ID doesn't use the file: scheme
        throw new XPathException(iae);
    }
}
}
/**
 * Determine whether the Emitter wants a Writer for character output or
 * an OutputStream for binary output. The standard Emitters all use a Writer, so
 * this returns true; but a subclass can override this if it wants to use an OutputStream
 * @return true if a Writer is needed, as distinct from an OutputStream
 */
public boolean usesWriter() {

```

```

    return true;
}

/**
 * Set the output destination as a character stream
 * @param writer the Writer to use as an output destination
 */

public void setWriter(Writer writer) throws XPathException {
    this.writer = writer;

    // If the writer uses a known encoding, change the encoding in the XML declaration
    // to match. Any encoding actually specified in xsl:output is ignored, because encoding
    // is being done by the user-supplied Writer, and not by Saxon itself.

    if (writer instanceof OutputStreamWriter && outputProperties != null) {
        String enc = ((OutputStreamWriter)writer).getEncoding();
        //System.err.println("Java encoding: " + enc);
        outputProperties.setProperty(OutputKeys.ENCODING, enc);
        characterSet = CharacterSetFactory.getCharacterSet(outputProperties, getPipelineConfiguration());
        allCharactersEncodable = (characterSet instanceof UnicodeCharacterSet);
    }
}

/**
 * Get the output writer
 * @return the Writer being used as an output destination, if any
 */

public Writer getWriter() {
    return writer;
}

/**
 * Set the output destination as a byte stream.
 * <p>Note that if a specific encoding (other than the default, UTF-8) is required, then
 * { @link #setOutputProperties(java.util.Properties)} must be called <i>before</i> calling
 * this method.</p>
 * @param stream the OutputStream being used as an output destination
 */

public void setOutputStream(OutputStream stream) throws XPathException {
    outputStream = stream;

    // If the user supplied an OutputStream, but the Emitter is written to
    // use a Writer (this is the most common case), then we create a Writer
    // to wrap the supplied OutputStream; the complications are to ensure that
    // the character encoding is correct.

```

```

if (usesWriter()) {

    if (outputProperties == null) {
        outputProperties = new Properties();
    }

    String encoding = outputProperties.getProperty(OutputKeys.ENCODING);
    if (encoding==null) {
        encoding = "UTF8";
        allCharactersEncodable = true;
    } else if (encoding.equalsIgnoreCase("UTF-8")) {
        encoding = "UTF8";
        allCharactersEncodable = true;
    } else if (encoding.equalsIgnoreCase("UTF-16")) {
        encoding = "UTF16";
    }

    String byteOrderMark = outputProperties.getProperty(SaxonOutputKeys.BYTE_ORDER_MARK);
    if ("no".equals(byteOrderMark) && "UTF16".equals(encoding)) {
        // Java always writes a bom for UTF-16, so if the user doesn't want one, use utf16-be
        encoding = "UTF-16BE";
    }

    if (characterSet instanceof PluggableCharacterSet) {
        encoding = ((PluggableCharacterSet)characterSet).getEncodingName();
    }

    while (true) {
        try {
            String javaEncoding = encoding;
            if (encoding.equalsIgnoreCase("iso-646") || encoding.equalsIgnoreCase("iso646")) {
                javaEncoding = "US-ASCII";
            }
            writer = new BufferedWriter(
                new OutputStreamWriter(
                    outputStream, javaEncoding));
            break;
        } catch (Exception err) {
            if (encoding.equalsIgnoreCase("UTF8")) {
                throw new XPathException("Failed to create a UTF8 output writer");
            }
            XPathException de = new XPathException("Encoding " + encoding + " is not supported: using UTF8");
            de.setErrorCode("SESU0007");
            try {
                getPipelineConfiguration().getErrorListener().error(de);
            } catch (TransformerException e) {
                throw XPathException.makeXPathException(e);
            }
        }
    }
}

```

```

    }
    encoding = "UTF8";
    characterSet = UnicodeCharacterSet.getInstance();
    allCharactersEncodable = true;
    outputProperties.setProperty(OutputKeys.ENCODING, "UTF-8");
  }
}

}

/**
 * Get the output stream
 * @return the OutputStream being used as an output destination, if any
 */

public OutputStream getOutputStream() {
    return outputStream;
}

/**
 * Set unparsed entity URI. Needed to satisfy the Receiver interface, but not used,
 * because unparsed entities can occur only in input documents, not in output documents.
 * @param name the entity name
 * @param uri the entity system ID
 * @param publicId the entity public ID
 */

public void setUnparsedEntity(String name, String uri, String publicId) throws XPathException {}

}

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//

```

```

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//
package net.sf.saxon.event;
import net.sf.saxon.tinytree.CompressedWhitespace;
import net.sf.saxon.trans.XPathException;
import net.sf.saxon.value.Whitespace;

import javax.xml.transform.OutputKeys;

/**
 * This class generates HTML output
 * @author Michael H. Kay
 */

public class HTMLEmitter extends XMLEmitter {

    /**
     * Preferred character representations
     */

    private static final int REP_NATIVE = 0;
    private static final int REP_ENTITY = 1;
    private static final int REP_DECIMAL = 2;
    private static final int REP_HEX = 3;

    private int nonASCIIRepresentation = REP_NATIVE;
    private int excludedRepresentation = REP_ENTITY;

    private int inScript;
    private boolean started = false;
    private String elementName;
    private short uriCode;

    /**
     * Decode preferred representation
     * @param rep string containing preferred representation (native, entity, decimal, or hex)
     * @return integer code for the preferred representation
     */

    private static int representationCode(String rep) {
        if (rep.equalsIgnoreCase("native")) return REP_NATIVE;
        if (rep.equalsIgnoreCase("entity")) return REP_ENTITY;
        if (rep.equalsIgnoreCase("decimal")) return REP_DECIMAL;
        if (rep.equalsIgnoreCase("hex")) return REP_HEX;
        return REP_ENTITY;
    }

    /**

```

```

* Table of HTML tags that have no closing tag
*/

static HTMLTagHashSet emptyTags = new HTMLTagHashSet(31);

static {
    setEmptyTag("area");
    setEmptyTag("base");
    setEmptyTag("basefont");
    setEmptyTag("br");
    setEmptyTag("col");
    setEmptyTag("frame");
    setEmptyTag("hr");
    setEmptyTag("img");
    setEmptyTag("input");
    setEmptyTag("isindex");
    setEmptyTag("link");
    setEmptyTag("meta");
    setEmptyTag("param");
}

private static void setEmptyTag(String tag) {
    emptyTags.add(tag);
}

protected static boolean isEmptyTag(String tag) {
    return emptyTags.contains(tag);
}

/**
* Table of boolean attributes
*/

// we use two HashMaps to avoid unnecessary string concatenations

private static HTMLTagHashSet booleanAttributes = new HTMLTagHashSet(31);
private static HTMLTagHashSet booleanCombinations = new HTMLTagHashSet(53);

static {
    setBooleanAttribute("area", "nohref");
    setBooleanAttribute("button", "disabled");
    setBooleanAttribute("dir", "compact");
    setBooleanAttribute("dl", "compact");
    setBooleanAttribute("frame", "noresize");
    setBooleanAttribute("hr", "noshade");
    setBooleanAttribute("img", "ismap");
    setBooleanAttribute("input", "checked");
    setBooleanAttribute("input", "disabled");
}

```

```

setBooleanAttribute("input", "readonly");
setBooleanAttribute("menu", "compact");
setBooleanAttribute("object", "declare");
setBooleanAttribute("ol", "compact");
setBooleanAttribute("optgroup", "disabled");
setBooleanAttribute("option", "selected");
setBooleanAttribute("option", "disabled");
setBooleanAttribute("script", "defer");
setBooleanAttribute("select", "multiple");
setBooleanAttribute("select", "disabled");
setBooleanAttribute("td", "nowrap");
setBooleanAttribute("textarea", "disabled");
setBooleanAttribute("textarea", "readonly");
setBooleanAttribute("th", "nowrap");
setBooleanAttribute("ul", "compact");
}

private static void setBooleanAttribute(String element, String attribute) {
    booleanAttributes.add(attribute);
    booleanCombinations.add(element + '+' + attribute);
}

private static boolean isBooleanAttribute(String element, String attribute, String value) {
    return attribute.equalsIgnoreCase(value) &&
        booleanAttributes.contains(attribute) &&
        booleanCombinations.contains(element + '+' + attribute);
}

/**
 * Constructor
 */

public HTMLewriter() {

}

/**
 * Output start of document
 */

public void open() throws XPathException { }

protected void openDocument() throws XPathException {
    if (writer==null) {
        makeWriter();
    }
    if (started) return;
    started = true;
}

```



```

// This method is sometimes called twice, especially during an identity transform
// This check stops two DOCTYPE declarations being output.

String version = outputProperties.getProperty(OutputKeys.VERSION);
if (version != null && !(version.equals("4.0") || version.equals("4.01"))) {
    XPathException err = new XPathException("Unsupported HTML version: " + version);
    err.setErrorCode("SESU0013");
    throw err;
}

String byteOrderMark = outputProperties.getProperty(SaxonOutputKeys.BYTE_ORDER_MARK);

if ("yes".equals(byteOrderMark) &&
    "UTF-8".equalsIgnoreCase(outputProperties.getProperty(OutputKeys.ENCODING))) {
    try {
        writer.write("\uFEFF");
    } catch (java.io.IOException err) {
        // Might be an encoding exception; just ignore it
    }
}

String systemId = outputProperties.getProperty(OutputKeys.DOCTYPE_SYSTEM);
String publicId = outputProperties.getProperty(OutputKeys.DOCTYPE_PUBLIC);

if (systemId!=null || publicId!=null) {
    writeDocType("html", systemId, publicId);
}

empty = false;
inScript = -1000000;

// Handle saxon:character-representation

String representation = outputProperties.getProperty(
    SaxonOutputKeys.CHARACTER_REPRESENTATION);
if (representation != null) {
    String nonASCIIrep;
    String excludedRep;
    int semi = representation.indexOf(';');
    if (semi < 0) {
        nonASCIIrep = Whitespace.trim(representation);
        excludedRep = nonASCIIrep;
    } else {
        nonASCIIrep = Whitespace.trim(representation.substring(0, semi));
        excludedRep = Whitespace.trim(representation.substring(semi+1));
    }
    nonASCIIRepresentation = representationCode(nonASCIIrep);
    excludedRepresentation = representationCode(excludedRep);
}

```

```

        if (excludedRepresentation == REP_NATIVE) {
            excludedRepresentation = REP_ENTITY;
        }
    }

}

/**
 * Output element start tag
 */

public void startElement(int nameCode, int typeCode, int locationId, int properties) throws XPathException {

    super.startElement(nameCode, typeCode, locationId, properties);
    uriCode = namePool.getURICode(nameCode);
    elementName = (String)elementStack.peek();

    if (uriCode==0 &&
        ( elementName.equalsIgnoreCase("script") ||
          elementName.equalsIgnoreCase("style"))) {
        inScript = 0;
    }
    inScript++;
}

public void startContent() throws XPathException {
    closeStartTag();          // prevent <xxx/> syntax
}

/**
 * Write attribute name=value pair. Overrides the XML behaviour if the name and value
 * are the same (we assume this is a boolean attribute to be minimised), or if the value is
 * a URL.
 */

protected void writeAttribute(int elCode, String attname, CharSequence value, int properties) throws
XPathException {
    try {
        if (uriCode==0) {
            if (isBooleanAttribute(elementName, attname, value.toString())) {
                writer.write(attname);
                return;
            }
        }
        super.writeAttribute(elCode, attname, value, properties);
    } catch (java.io.IOException err) {
        throw new XPathException(err);
    }
}

```

```

}

/**
 * Escape characters. Overrides the XML behaviour
 */

protected void writeEscape(final CharSequence chars, final boolean inAttribute)
throws java.io.IOException, XPathException {

    int segstart = 0;
    final boolean[] specialChars = (inAttribute ? specialInAtt : specialInText);

    if (chars instanceof CompressedWhitespace) {
        ((CompressedWhitespace)chars).writeEscape(specialChars, writer);
        return;
    }
    boolean disabled = false;

    while (segstart < chars.length()) {
        int i = segstart;

        // find a maximal sequence of "ordinary" characters

        if (nonASCIIRepresentation == REP_NATIVE) {
            char c;
            while (i < chars.length() &&
                ((c = chars.charAt(i)) < 127 ? !specialChars[c] : (characterSet.inCharset(c) && c > 160))
            ) {
                i++;
            }
        } else {
            char c;
            while (i < chars.length() && (c = chars.charAt(i)) < 127 && !specialChars[c]) {
                i++;
            }
        }

        // if this was the whole string, output the string and quit

        if (i == chars.length()) {
            if (segstart == 0) {
                writeCharSequence(chars);
            } else {
                writeCharSequence(chars.subSequence(segstart, i));
            }
        }
    }
}

```

```

    }
    return;
}

// otherwise, output this sequence and continue
if (i > segstart) {
    writeCharSequence(chars.subSequence(segstart, i));
}

final char c = chars.charAt(i);

if (c==0) {
    // used to switch escaping on and off
    disabled = !disabled;
} else if (disabled) {
    writer.write(c);
} else if (c<=127) {

    // handle a special ASCII character

    if (inAttribute) {
        if (c=='<') {
            writer.write('<');           // not escaped
        } else if (c=='>') {
            writer.write("&gt;");         // recommended for older browsers
        } else if (c=='&') {
            if (i+1<chars.length() && chars.charAt(i+1)=='{') {
                writer.write('&');       // not escaped if followed by '{'
            } else {
                writer.write("&");
            }
        } else if (c=="") {
            writer.write("&#34;");
        } else if (c=='\n') {
            writer.write("&#xA;");
        } else if (c=='\t') {
            writer.write("&#x9;");
        } else if (c=='\r') {
            writer.write("&#xD;");
        }
    } else {
        if (c=='<') {
            writer.write("&lt;");
        } else if (c=='>') {
            writer.write("&gt;"); // changed to allow for "]]>"
        } else if (c=='&') {
            writer.write("&");
        } else if (c=='\r') {

```

```

        writer.write("&#xD;");
    }
}

} else if (c==160) {
// always output NBSP as an entity reference
writer.write("&nbsp;");

} else if (c>=127 && c<160) {
// these control characters are illegal in HTML
XPathException err = new XPathException("Illegal HTML character: decimal " + (int)c);
err.setErrorCode("SERE0014");
throw err;

} else if (c>=55296 && c<=56319) { //handle surrogate pair

//A surrogate pair is two consecutive Unicode characters. The first
//is in the range D800 to DBFF, the second is in the range DC00 to DFFF.
//To compute the numeric value of the character corresponding to a surrogate
//pair, use this formula (all numbers are hex):
//(FirstChar - D800) * 400 + (SecondChar - DC00) + 10000

// we'll trust the data to be sound
int charval = (((int)c - 55296) * 1024) + ((int)chars.charAt(i+1) - 56320) + 65536;
outputCharacterReference(charval);
i++;

} else if (characterSet.inCharset(c)) {
switch(nonASCIIRepresentation) {
case REP_NATIVE:
writer.write(c);
break;
case REP_ENTITY:
if (c>160 && c<=255) {

// if character in iso-8859-1, use an entity reference

writer.write('&');
writer.write(latin1Entities[(int)c-160]);
writer.write(';');
break;
}
// else fall through
case REP_DECIMAL:
preferHex = false;
outputCharacterReference(c);
break;

```

```

    case REP_HEX:
        preferHex = true;
        // fall through
    default:
        outputCharacterReference(c);
        break;
}

} else {
    // Character not present in encoding
    switch(excludedRepresentation) {
    case REP_ENTITY:
        if (c>160 && c<=255) {

            // if character in iso-8859-1, use an entity reference

            writer.write('&');
            writer.write(latin1Entities[(int)c-160]);
            writer.write(';');
            break;
        }
        // else fall through
        case REP_NATIVE:
        case REP_DECIMAL:
            preferHex = false;
            outputCharacterReference(c);
            break;
        case REP_HEX:
            preferHex = true;
            // fall through
        default:
            outputCharacterReference(c);
            break;
    }
}

    segstart = ++i;
}

}

/**
 * Output an element end tag.
 */

public void endElement() throws XPathException {
    String name = (String)elementStack.peek();
    inScript--;
}

```

```

    if (inScript==0) {
        inScript = -1000000;
    }

    if (isEmptyTag(name) && uriCode==0) {
        // no end tag required
        elementStack.pop();
    } else {
        super.endElement();
    }

}

/**
 * Character data.
 */

public void characters (CharSequence chars, int locationId, int properties)
throws XPathException {
    int options = properties;
    if (inScript>0) {
        options |= ReceiverOptions.DISABLE_ESCAPING;
    }
    super.characters(chars, locationId, options);
}

/**
 * Handle a processing instruction.
 */

public void processingInstruction (String target, CharSequence data, int locationId, int properties)
throws XPathException
{
    if (empty) {
        openDocument();
    }
    for (int i=0; i<data.length(); i++) {
        if (data.charAt(i) == '>') {
            XPathException err = new XPathException("A processing instruction in HTML must not contain a >
character");
            err.setErrorCode("SERE0015");
            throw err;
        }
    }
    try {
        writer.write("<?");
        writer.write(target);
        writer.write(' ');

```

```

        writeCharSequence(data);
        writer.write('>');
    } catch (java.io.IOException err) {
        throw new XPathException(err);
    }
}

```

```

private static final String[] latin1Entities = {

    "nbsp", // "&#160;" -- no-break space = non-breaking space,
           //          U+00A0 ISOnum -->
    "iexcl", // "&#161;" -- inverted exclamation mark, U+00A1 ISOnum -->
    "cent", // "&#162;" -- cent sign, U+00A2 ISOnum -->
    "pound", // "&#163;" -- pound sign, U+00A3 ISOnum -->
    "curren", // "&#164;" -- currency sign, U+00A4 ISOnum -->
    "yen", // "&#165;" -- yen sign = yuan sign, U+00A5 ISOnum -->
    "brvbar", // "&#166;" -- broken bar = broken vertical bar,
           //          U+00A6 ISOnum -->
    "sect", // "&#167;" -- section sign, U+00A7 ISOnum -->
    "uml", // "&#168;" -- diaeresis = spacing diaeresis,
           //          U+00A8 ISODia -->
    "copy", // "&#169;" -- copyright sign, U+00A9 ISOnum -->
    "ordf", // "&#170;" -- feminine ordinal indicator, U+00AA ISOnum -->
    "laquo", // "&#171;" -- left-pointing double angle quotation mark
           //          = left pointing guillemet, U+00AB ISOnum -->
    "not", // "&#172;" -- not sign, U+00AC ISOnum -->
    "shy", // "&#173;" -- soft hyphen = discretionary hyphen,
           //          U+00AD ISOnum -->
    "reg", // "&#174;" -- registered sign = registered trade mark sign,
           //          U+00AE ISOnum -->
    "macr", // "&#175;" -- macron = spacing macron = overline
           //          = APL overbar, U+00AF ISODia -->
    "deg", // "&#176;" -- degree sign, U+00B0 ISOnum -->
    "plusmn", // "&#177;" -- plus-minus sign = plus-or-minus sign,
           //          U+00B1 ISOnum -->
    "sup2", // "&#178;" -- superscript two = superscript digit two
           //          = squared, U+00B2 ISOnum -->
    "sup3", // "&#179;" -- superscript three = superscript digit three
           //          = cubed, U+00B3 ISOnum -->
    "acute", // "&#180;" -- acute accent = spacing acute,
           //          U+00B4 ISODia -->
    "micro", // "&#181;" -- micro sign, U+00B5 ISOnum -->
    "para", // "&#182;" -- pilcrow sign = paragraph sign,
           //          U+00B6 ISOnum -->
    "middot", // "&#183;" -- middle dot = Georgian comma
           //          = Greek middle dot, U+00B7 ISOnum -->
    "cedil", // "&#184;" -- cedilla = spacing cedilla, U+00B8 ISODia -->

```



"sup1", // "¹" -- superscript one = superscript digit one,  
// U+00B9 ISOnum -->

"ordm", // "º" -- masculine ordinal indicator,  
// U+00BA ISOnum -->

"raquo", // "»" -- right-pointing double angle quotation mark  
// = right pointing guillemet, U+00BB ISOnum -->

"frac14", // "¼" -- vulgar fraction one quarter  
// = fraction one quarter, U+00BC ISOnum -->

"frac12", // "½" -- vulgar fraction one half  
// = fraction one half, U+00BD ISOnum -->

"frac34", // "¾" -- vulgar fraction three quarters  
// = fraction three quarters, U+00BE ISOnum -->

"iquest", // "¿" -- inverted question mark  
// = turned question mark, U+00BF ISOnum -->

"Agrave", // "À" -- latin capital letter A with grave  
// = latin capital letter A grave,  
// U+00C0 ISolat1 -->

"Aacute", // "Á" -- latin capital letter A with acute,  
// U+00C1 ISolat1 -->

"Acirc", // "Â" -- latin capital letter A with circumflex,  
// U+00C2 ISolat1 -->

"Atilde", // "Ã" -- latin capital letter A with tilde,  
// U+00C3 ISolat1 -->

"Auml", // "Ä" -- latin capital letter A with diaeresis,  
// U+00C4 ISolat1 -->

"Aring", // "Å" -- latin capital letter A with ring above  
// = latin capital letter A ring,  
// U+00C5 ISolat1 -->

"AElig", // "Æ" -- latin capital letter AE  
// = latin capital ligature AE,  
// U+00C6 ISolat1 -->

"Ccedil", // "Ç" -- latin capital letter C with cedilla,  
// U+00C7 ISolat1 -->

"Egrave", // "È" -- latin capital letter E with grave,  
// U+00C8 ISolat1 -->

"Eacute", // "É" -- latin capital letter E with acute,  
// U+00C9 ISolat1 -->

"Ecirc", // "Ê" -- latin capital letter E with circumflex,  
// U+00CA ISolat1 -->

"Euml", // "Ë" -- latin capital letter E with diaeresis,  
// U+00CB ISolat1 -->

"Igrave", // "Ì" -- latin capital letter I with grave,  
// U+00CC ISolat1 -->

"Iacute", // "Í" -- latin capital letter I with acute,  
// U+00CD ISolat1 -->

"Icirc", // "Î" -- latin capital letter I with circumflex,  
// U+00CE ISolat1 -->

"Iuml", // "Ï" -- latin capital letter I with diaeresis,

```

//          U+00CF ISolat1 -->
"ETH", // "Ð" -- latin capital letter ETH, U+00D0 ISolat1 -->
"Ntilde", // "Ñ" -- latin capital letter N with tilde,
//          U+00D1 ISolat1 -->
"Ograve", // "Ò" -- latin capital letter O with grave,
//          U+00D2 ISolat1 -->
"Oacute", // "Ó" -- latin capital letter O with acute,
//          U+00D3 ISolat1 -->
"Ocirc", // "Ô" -- latin capital letter O with circumflex,
//          U+00D4 ISolat1 -->
"Otilde", // "Õ" -- latin capital letter O with tilde,
//          U+00D5 ISolat1 -->
"Ouml", // "Ö" -- latin capital letter O with diaeresis,
//          U+00D6 ISolat1 -->
"times", // "×" -- multiplication sign, U+00D7 ISOnum -->
"Oslash", // "Ø" -- latin capital letter O with stroke
//          = latin capital letter O slash,
//          U+00D8 ISolat1 -->
"Ugrave", // "Ù" -- latin capital letter U with grave,
//          U+00D9 ISolat1 -->
"Uacute", // "Ú" -- latin capital letter U with acute,
//          U+00DA ISolat1 -->
"Ucirc", // "Û" -- latin capital letter U with circumflex,
//          U+00DB ISolat1 -->
"Uuml", // "Ü" -- latin capital letter U with diaeresis,
//          U+00DC ISolat1 -->
"Yacute", // "Ý" -- latin capital letter Y with acute,
//          U+00DD ISolat1 -->
"THORN", // "Þ" -- latin capital letter THORN,
//          U+00DE ISolat1 -->
"szlig", // "ß" -- latin small letter sharp s = ess-zed,
//          U+00DF ISolat1 -->
"agrave", // "à" -- latin small letter a with grave
//          = latin small letter a grave,
//          U+00E0 ISolat1 -->
"aacute", // "á" -- latin small letter a with acute,
//          U+00E1 ISolat1 -->
"acirc", // "â" -- latin small letter a with circumflex,
//          U+00E2 ISolat1 -->
"atilde", // "ã" -- latin small letter a with tilde,
//          U+00E3 ISolat1 -->
"auml", // "ä" -- latin small letter a with diaeresis,
//          U+00E4 ISolat1 -->
"aring", // "å" -- latin small letter a with ring above
//          = latin small letter a ring,
//          U+00E5 ISolat1 -->
"aelig", // "æ" -- latin small letter ae
//          = latin small ligature ae, U+00E6 ISolat1 -->

```

"ccedil", // "ç" -- latin small letter c with cedilla,  
// U+00E7 ISolat1 -->

"egrave", // "è" -- latin small letter e with grave,  
// U+00E8 ISolat1 -->

"eacute", // "é" -- latin small letter e with acute,  
// U+00E9 ISolat1 -->

"ecirc", // "ê" -- latin small letter e with circumflex,  
// U+00EA ISolat1 -->

"euml", // "ë" -- latin small letter e with diaeresis,  
// U+00EB ISolat1 -->

"igrave", // "ì" -- latin small letter i with grave,  
// U+00EC ISolat1 -->

"iacute", // "í" -- latin small letter i with acute,  
// U+00ED ISolat1 -->

"icirc", // "î" -- latin small letter i with circumflex,  
// U+00EE ISolat1 -->

"iuml", // "ï" -- latin small letter i with diaeresis,  
// U+00EF ISolat1 -->

"eth", // "ð" -- latin small letter eth, U+00F0 ISolat1 -->

"ntilde", // "ñ" -- latin small letter n with tilde,  
// U+00F1 ISolat1 -->

"ograve", // "ò" -- latin small letter o with grave,  
// U+00F2 ISolat1 -->

"oacute", // "ó" -- latin small letter o with acute,  
// U+00F3 ISolat1 -->

"ocirc", // "ô" -- latin small letter o with circumflex,  
// U+00F4 ISolat1 -->

"otilde", // "õ" -- latin small letter o with tilde,  
// U+00F5 ISolat1 -->

"ouml", // "ö" -- latin small letter o with diaeresis,  
// U+00F6 ISolat1 -->

"divide", // "÷" -- division sign, U+00F7 ISOnum -->

"oslash", // "ø" -- latin small letter o with stroke,  
// = latin small letter o slash,  
// U+00F8 ISolat1 -->

"ugrave", // "ù" -- latin small letter u with grave,  
// U+00F9 ISolat1 -->

"uacute", // "ú" -- latin small letter u with acute,  
// U+00FA ISolat1 -->

"ucirc", // "û" -- latin small letter u with circumflex,  
// U+00FB ISolat1 -->

"uuml", // "ü" -- latin small letter u with diaeresis,  
// U+00FC ISolat1 -->

"yacute", // "ý" -- latin small letter y with acute,  
// U+00FD ISolat1 -->

"thorn", // "þ" -- latin small letter thorn,  
// U+00FE ISolat1 -->

"yuml" // "ÿ" -- latin small letter y with diaeresis,

```

        //          U+00FF ISOlat1 -->
    };

}

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//
package net.sf.saxon.event;
import net.sf.saxon.charcode.UnicodeCharacterSet;
import net.sf.saxon.charcode.UTF16;
import net.sf.saxon.om.FastStringBuffer;
import net.sf.saxon.sort.IntHashMap;
import net.sf.saxon.tinytree.CharSlice;
import net.sf.saxon.tinytree.CompressedWhitespace;

import net.sf.saxon.trans.XPathException;
import net.sf.saxon.value.Whitespace;

import javax.xml.transform.OutputKeys;
import java.util.Properties;
import java.util.Stack;

/**
 * XMLEmitter is an Emitter that generates XML output
 * to a specified destination.
 */

public class XMLEmitter extends Emitter {

    // NOTE: we experimented with XMLUTF8Emitter which combines XML escaping and UTF8 encoding
    // into a single loop. Scrapped it because we couldn't measure any benefits - but there
    // ought to be, in theory. Perhaps we weren't buffering the writes carefully enough.

```

```

protected boolean empty = true;
protected boolean openStartTag = false;
protected boolean declarationIsWritten = false;
protected int elementCode;

protected boolean preferHex = false;
protected boolean undeclareNamespaces = false;
//private boolean warningIssued = false;

// The element stack holds the display names (lexical QNames) of elements that
// have been started but not finished. It is used to obtain the element name
// for the end tag.

protected Stack elementStack = new Stack();

// Getting a display name for a namecode can be expensive because it involves string
// concatenation, and more importantly, checking of the name against the encoding. So
// we keep a local cache of names we have seen before.

private IntHashMap nameLookup = new IntHashMap(100);

// For other names we use a hashtable. It

private boolean indenting = false;
private int indentSpaces = 3;
private String indentChars = "\n                ";
private int totalAttributeLength = 0;
private boolean requireWellFormed = false;

static boolean[] specialInText;    // lookup table for special characters in text
static boolean[] specialInAtt;    // lookup table for special characters in attributes
// create look-up table for ASCII characters that need special treatment

static {
    specialInText = new boolean[128];
    for (int i=0; i<=31; i++) specialInText[i] = true; // allowed in XML 1.1 as character references
    for (int i=32; i<=127; i++) specialInText[i] = false;
    // note, 0 is used to switch escaping on and off for mapped characters
    specialInText['\n'] = false;
    specialInText['\t'] = false;
    specialInText['\r'] = true;
    specialInText['<'] = true;
    specialInText['>'] = true;
    specialInText['&'] = true;

    specialInAtt = new boolean[128];

```

```

for (int i=0; i<=31; i++) specialInAtt[i] = true; // allowed in XML 1.1 as character references
for (int i=32; i<=127; i++) specialInAtt[i] = false;
specialInAtt[(char)0] = true;
    // used to switch escaping on and off for mapped characters
specialInAtt['\r'] = true;
specialInAtt['\n'] = true;
specialInAtt['\t'] = true;
specialInAtt['<'] = true;
specialInAtt['>'] = true;
specialInAtt['&'] = true;
specialInAtt['"'] = true;
}

/**
 * Start of the event stream. Nothing is done at this stage: the opening of the output
 * file is deferred until some content is written to it.
 */

public void open() throws XPathException { }

/**
 * Start of a document node. Nothing is done at this stage: the opening of the output
 * file is deferred until some content is written to it.
 */

public void startDocument(int properties) throws XPathException { }

/**
 * Notify the end of a document node
 */

public void endDocument() throws XPathException {
    if (!elementStack.isEmpty()) {
        throw new IllegalStateException("Attempt to end document in serializer when elements are unclosed");
    }
}

/**
 * Do the real work of starting the document. This happens when the first
 * content is written.
 * @throws XPathException
 */

protected void openDocument () throws XPathException
{
    if (writer==null) {
        makeWriter();
    }
}

```

```

if (characterSet==null) {
    characterSet = UnicodeCharacterSet.getInstance();
}
if (outputProperties==null) {
    outputProperties = new Properties();
}
String rep = outputProperties.getProperty(SaxonOutputKeys.CHARACTER_REPRESENTATION);
rep = Whitespace.trim(rep);
if (rep != null) {
    preferHex = (rep.equalsIgnoreCase("hex"));
}
rep = outputProperties.getProperty(SaxonOutputKeys.UNDECLARE_PREFIXES);
if (rep!=null) {
    undeclareNamespaces = (rep.equalsIgnoreCase("yes"));
}
writeDeclaration();
}

/**
 * Output the XML declaration
 */

public void writeDeclaration() throws XPathException {
    if (declarationIsWritten) return;
    declarationIsWritten = true;
    try {
        indenting = "yes".equals(outputProperties.getProperty(OutputKeys.INDENT));
        String s = outputProperties.getProperty(SaxonOutputKeys.INDENT_SPACES);
        if (s!=null) {
            try {
                indentSpaces = Integer.parseInt(Whitespace.trim(s));
            } catch (NumberFormatException err) {
                indentSpaces = 3;
            }
        }
    }

    String byteOrderMark = outputProperties.getProperty(SaxonOutputKeys.BYTE_ORDER_MARK);
    String encoding = outputProperties.getProperty(OutputKeys.ENCODING);
    if (encoding==null || encoding.equalsIgnoreCase("utf8")) {
        encoding = "UTF-8";
    }

    if ("yes".equals(byteOrderMark) && (
        "UTF-8".equalsIgnoreCase(encoding) ||
        "UTF-16LE".equalsIgnoreCase(encoding) ||
        "UTF-16BE".equalsIgnoreCase(encoding))) {
        writer.write("\uFEFF");
    }
}

```

```

String omitXMLDeclaration = outputProperties.getProperty(OutputKeys.OMIT_XML_DECLARATION);
if (omitXMLDeclaration==null) {
    omitXMLDeclaration = "no";
}

String version = outputProperties.getProperty(OutputKeys.VERSION);
if (version==null) {
    version = getConfiguration().getNameChecker().getXMLVersion();
} else {
    if (!version.equals("1.0") && !version.equals("1.1")) {
        XPathException err = new XPathException("XML version must be 1.0 or 1.1");
        err.setErrorCode("SESU0006");
        throw err;
    }
    if (!version.equals("1.0") && omitXMLDeclaration.equals("yes") &&
        outputProperties.getProperty(OutputKeys.DOCTYPE_SYSTEM) != null) {
        XPathException err = new XPathException("Values of 'version', 'omit-xml-declaration', and 'doctype-
system' conflict");
        err.setErrorCode("SEPM0009");
        throw err;
    }
}

if (version.equals("1.0") && undeclareNamespaces) {
    XPathException err = new XPathException("Cannot undeclare namespaces with XML version 1.0");
    err.setErrorCode("SEPM0010");
    throw err;
}

String standalone = outputProperties.getProperty(OutputKeys.STANDALONE);
if ("omit".equals(standalone)) {
    standalone = null;
}

if (standalone != null) {
    requireWellFormed = true;
    if (omitXMLDeclaration.equals("yes")) {
        XPathException err = new XPathException("Values of 'standalone' and 'omit-xml-declaration'
conflict");
        err.setErrorCode("SEPM0009");
        throw err;
    }
}

if (omitXMLDeclaration.equals("no")) {
    writer.write("<?xml version=\"" + version + "\" " + "encoding=\"" + encoding + "\" +
(standalone != null ? \" standalone=\"" + standalone + "\" : \"\") + \"?>");
}

```



```

        // don't write a newline character: it's wrong if the output is an
        // external general parsed entity
    }
} catch (java.io.IOException err) {
    throw new XPathException(err);
}
}

/**
 * Output the document type declaration
 * @param type The element name
 * @param systemId The DOCTYPE system identifier
 * @param publicId The DOCTYPE public identifier
 */

protected void writeDocType(String type, String systemId, String publicId) throws XPathException {
    try {
        if (declarationIsWritten && !indenting) {
            // don't add a newline if indenting, because the indenter will already have done so
            writer.write("\n");
        }
        writer.write("<!DOCTYPE " + type + "\n");
        if (systemId!=null && publicId==null) {
            writer.write(" SYSTEM \"" + systemId + "\">\n");
        } else if (systemId==null && publicId!=null) { // handles the HTML case
            writer.write(" PUBLIC \"" + publicId + "\">\n");
        } else {
            writer.write(" PUBLIC \"" + publicId + "\" \"" + systemId + "\">\n");
        }
    } catch (java.io.IOException err) {
        throw new XPathException(err);
    }
}

/**
 * End of the document.
 */

public void close() throws XPathException {
    // if nothing has been written, we should still create the file and write an XML declaration
    if (empty) {
        openDocument();
    }
    try {
        if (writer != null) {
            writer.flush();
        }
    } catch (java.io.IOException err) {

```

```

        throw new XPathException(err);
    }
}

/**
 * Start of an element. Output the start tag, escaping special characters.
 */

public void startElement (int nameCode, int typeCode, int locationId, int properties) throws XPathException
{
    if (empty) {
        openDocument();
    } else if (requireWellFormed && elementStack.isEmpty()) {
        XPathException err = new XPathException("When 'standalone' or 'doctype-system' is specified, the
document must be well-formed; " +
        "but this document contains more than one top-level element");
        err.setErrorCode("SEPM0004");
        throw err;
    }
    String displayName;

    // See if we've seen this name before
    displayName = getCachedName(nameCode);

    // Otherwise, look it up in the namepool and check that it's encodable
    if (displayName == null) {
        displayName = namePool.getDisplayName(nameCode);
        if (!allCharactersEncodable) {
            int badchar = testCharacters(displayName);
            if (badchar!=0) {
                XPathException err = new XPathException("Element name contains a character (decimal + " +
                badchar + ") not available in the selected encoding");
                err.setErrorCode("SERE0008");
                throw err;
            }
        }
        putCachedName(nameCode, displayName);
    }

    elementStack.push(displayName);
    elementCode = nameCode;

    try {
        if (empty) {
            String systemId = outputProperties.getProperty(OutputKeys.DOCTYPE_SYSTEM);
            String publicId = outputProperties.getProperty(OutputKeys.DOCTYPE_PUBLIC);
            if (systemId!=null) {
                requireWellFormed = true;
            }
        }
    }
}

```

```

        writeDocType(displayName, systemId, publicId);
    }
    empty = false;
}
if (openStartTag) {
    closeStartTag();
}
writer.write('<');
writer.write(displayName);
openStartTag = true;
totalAttributeLength = 0;

} catch (java.io.IOException err) {
    throw new XPathException(err);
}
}

public void namespace(int namespaceCode, int properties) throws XPathException {
    try {
        String nsprefix = namePool.getPrefixFromNamespaceCode(namespaceCode);
        String nsuri = namePool.getURIFromNamespaceCode(namespaceCode);

        int len = nsuri.length() + nsprefix.length() + 8;
        String sep = " ";
        if (indenting && (totalAttributeLength + len) > 80 && totalAttributeLength != 0) {
            sep = getAttributeIndentString();
        }
        totalAttributeLength += len;

        if (nsprefix.length() == 0) {
            writer.write(sep);
            writeAttribute(elementCode, "xmlns", nsuri, 0);
        } else if (nsprefix.equals("xml")) {
            //return;
        } else {
            int badchar = testCharacters(nsprefix);
            if (badchar != 0) {
                XPathException err = new XPathException("Namespace prefix contains a character (decimal + " +
                    badchar + ") not available in the selected encoding");
                err.setErrorCode("SERE0008");
                throw err;
            }
            if (undeclareNamespaces || nsuri.length() != 0) {
                writer.write(sep);
                writeAttribute(elementCode, "xmlns:" + nsprefix, nsuri, 0);
            }
        }
    } catch (java.io.IOException err) {

```

```

        throw new XPathException(err);
    }
}

public void attribute(int nameCode, int typeCode, CharSequence value, int locationId, int properties)
throws XPathException {
    String displayName;

    // See if we've seen this name before
    displayName = getCachedName(nameCode);

    // Otherwise, look it up in the namepool and check that it's encodable
    if (displayName == null) {
        displayName = namePool.getDisplayName(nameCode);
        if (!allCharactersEncodable) {
            int badchar = testCharacters(displayName);
            if (badchar!=0) {
                XPathException err = new XPathException("Attribute name contains a character (decimal + " +
                    badchar + ") not available in the selected encoding");
                err.setErrorCode("SERE0008");
                throw err;
            }
        }
        putCachedName(nameCode, displayName);
    }

    final int len = displayName.length() + value.length() + 4;
    String sep = " ";
    if (indenting && (totalAttributeLength + len) > 80 && totalAttributeLength != 0) {
        sep = getAttributeIndentString();
    }
    totalAttributeLength += len;

    try {
        writer.write(sep);
        writeAttribute(
            elementCode,
            displayName,
            value,
            properties );
    } catch (java.io.IOException err) {
        throw new XPathException(err);
    }
}

private String getAttributeIndentString() {
    int indent = (elementStack.size()-1) * indentSpaces + ((String)elementStack.peek()).length() + 3;
}

```

```

    while (indent >= indentChars.length()) {
        indentChars += "        ";
    }
    return indentChars.substring(0, indent);
}

public void startContent() throws XPathException {
    // don't add ">" to the start tag until we know whether the element has content
}

/**
 * Mark the end of the start tag
 * @throws XPathException if an IO exception occurs
 */

public void closeStartTag() throws XPathException {
    try {
        if (openStartTag) {
            writer.write('>');
            openStartTag = false;
        }
    } catch (java.io.IOException err) {
        throw new XPathException(err);
    }
}

/**
 * Close an empty element tag. (This is overridden in XHTMLEmitter).
 * @param displayName the name of the empty element
 * @param nameCode the fingerprint of the name of the empty element
 * @return the string used to close an empty element tag.
 */

protected String emptyElementTagCloser(String displayName, int nameCode) {
    return ">";
}

/**
 * Write attribute name=value pair.
 * @param elCode The element name is not used in this version of the
 * method, but is used in the HTML subclass.
 * @param attname The attribute name, which has already been validated to ensure
 * it can be written in this encoding
 * @param value The value of the attribute
 * @param properties Any special properties of the attribute
 */

protected void writeAttribute(int elCode, String attname, CharSequence value, int properties) throws

```

```

XPathException {
    try {
        String val = value.toString();
        writer.write(AttributeName);
        if ((properties & ReceiverOptions.NO_SPECIAL_CHARS) != 0) {
            writer.write('=');
            writer.write("");
            writer.write(val);
            writer.write("");
        } else if ((properties & ReceiverOptions.USE_NULL_MARKERS) != 0) {
            // null (0) characters will be used before and after any section of
            // the value generated from a character map
            writer.write('=');
            char delimiter = (val.indexOf("") >= 0 && val.indexOf("\") < 0 ? "\" : "");
            writer.write(delimiter);
            writeEscape(value, true);
            writer.write(delimiter);
        } else {
            writer.write("=\\");
            writeEscape(value, true);
            writer.write("\\");
        }
    } catch (java.io.IOException err) {
        throw new XPathException(err);
    }
}

/**
 * Test that all characters in a name (for example) are supported in the target encoding.
 * @param chars the characters to be tested
 * @return zero if all the characters are available, or the value of the
 * first offending character if not
 */

protected int testCharacters(CharSequence chars) throws XPathException {
    for (int i=0; i<chars.length(); i++) {
        char c = chars.charAt(i);
        if (c > 127) {
            if (UTF16.isHighSurrogate(c)) {
                int cc = UTF16.combinePair(c, chars.charAt(++i));
                if (!CharacterSet.inCharset(cc)) {
                    return cc;
                }
            } else if (!CharacterSet.inCharset(c)) {
                return c;
            }
        }
    }
}

```

```

    }
    return 0;
}

/**
 * End of an element.
 */

public void endElement () throws XPathException
{
    String displayName = (String)elementStack.pop();
    try {
        if (openStartTag) {
            writer.write(emptyElementTagCloser(displayName, elementCode));
            openStartTag = false;
        } else {
            writer.write("</");
            writer.write(displayName);
            writer.write('>');
        }
    } catch (java.io.IOException err) {
        throw new XPathException(err);
    }
}

/**
 * Character data.
 */

public void characters (CharSequence chars, int locationId, int properties) throws XPathException
{
    if (empty) {
        openDocument();
        if (!Whitespace.isWhite(chars)) {
            if (requireWellFormed || outputProperties.getProperty(OutputKeys.DOCTYPE_SYSTEM)!=null) {
                XPathException err = new XPathException("When 'standalone' or 'doctype-system' is specified, the
document must be well-formed; " +
                    "but this document contains a top-level text node");
                err.setErrorCode("SEPM0004");
                throw err;
            }
        }
    }

    if (requireWellFormed && elementStack.isEmpty() && !Whitespace.isWhite(chars)) {
        XPathException err = new XPathException("When 'standalone' or 'doctype-system' is specified, the
document must be well-formed; " +
            "but this document contains a top-level text node");
    }
}

```

```

err.setErrorCode("SEPM0004");
throw err;
}

try {
    if (openStartTag) {
        closeStartTag();
    }

    if ((properties & ReceiverOptions.NO_SPECIAL_CHARS) != 0) {
        writeCharSequence(chars);
    } else if ((properties & ReceiverOptions.DISABLE_ESCAPING) == 0) {
        writeEscape(chars, false);
    } else {
        // disable-output-escaping="yes"
        if (testCharacters(chars) == 0) {
            if ((properties & ReceiverOptions.USE_NULL_MARKERS) == 0) {
                // null (0) characters will be used before and after any section of
                // the value generated from a character map
                writeCharSequence(chars);
            } else {
                // Need to strip out any null markers. See test output-html109
                final int len = chars.length();
                for (int i=0; i<len; i++) {
                    char c = chars.charAt(i);
                    if (c != 0) {
                        writer.write(c);
                    }
                }
            }
        } else {
            // Using disable output escaping with characters
            // that are not available in the target encoding
            // The required action is to ignore d-o-e in respect of those characters that are
            // not available in the encoding. This is slow...
            final int len = chars.length();
            for (int i=0; i<len; i++) {
                char c = chars.charAt(i);
                if (c != 0) {
                    if (c > 127 && UTF16.isHighSurrogate(c)) {
                        char[] pair = new char[2];
                        pair[0] = c;
                        pair[1] = chars.charAt(++i);
                        int cc = UTF16.combinePair(c, pair[1]);
                        if (!characterSet.inCharset(cc)) {
                            writeEscape(new CharSlice(pair), false);
                        } else {
                            writeCharSequence(new CharSlice(pair));
                        }
                    }
                }
            }
        }
    }
}

```



```

        }
    } else {
        char[] ca = {c};
        if (!CharacterSet.inCharset(c)) {
            writeEscape(new CharSlice(ca), false);
        } else {
            writeCharSequence(new CharSlice(ca));
        }
    }
}
}
}
} catch (java.io.IOException err) {
    throw new XPathException(err);
}
}

/**
 * Write a CharSequence (without any escaping of special characters): various implementations
 * @param s the character sequence to be written
 */

public void writeCharSequence(CharSequence s) throws java.io.IOException {
    if (s instanceof String) {
        writer.write((String)s);
    } else if (s instanceof CharSlice) {
        ((CharSlice)s).write(writer);
    } else if (s instanceof FastStringBuffer) {
        ((FastStringBuffer)s).write(writer);
    } else if (s instanceof CompressedWhitespace) {
        ((CompressedWhitespace)s).write(writer);
    } else {
        writer.write(s.toString());
    }
}

/**
 * Handle a processing instruction.
 */

public void processingInstruction (String target, CharSequence data, int locationId, int properties)
    throws XPathException {
    if (empty) {
        openDocument();
    }
    int x = testCharacters(target);

```

```

    if (x != 0) {
        XPathException err = new XPathException("Character in processing instruction name cannot be represented
" +
        "in the selected encoding (code " + x + ')');
        err.setErrorCode("SERE0008");
        throw err;
    }
    x = testCharacters(data);
    if (x != 0) {
        XPathException err = new XPathException("Character in processing instruction data cannot be represented "
+
        "in the selected encoding (code " + x + ')');
        err.setErrorCode("SERE0008");
        throw err;
    }
    try {
        if (openStartTag) {
            closeStartTag();
        }
        writer.write("<?" + target + (data.length()>0 ? ' ' + data.toString() : "") + ">");
    } catch (java.io.IOException err) {
        throw new XPathException(err);
    }
}

/**
 * Write contents of array to current writer, after escaping special characters.
 * This method converts the XML special characters (such as < and &) into their
 * predefined entities.
 * @param chars The character sequence containing the string
 * @param inAttribute Set to true if the text is in an attribute value
 */

protected void writeEscape(final CharSequence chars, final boolean inAttribute)
throws java.io.IOException, XPathException {
    int segstart = 0;
    boolean disabled = false;
    final boolean[] specialChars = (inAttribute ? specialInAtt : specialInText);

    if (chars instanceof CompressedWhitespace) {
        ((CompressedWhitespace)chars).writeEscape(specialChars, writer);
        return;
    }

    final int clength = chars.length();
    while (segstart < clength) {
        int i = segstart;
        // find a maximal sequence of "ordinary" characters

```

```

while (i < clength) {
    final char c = chars.charAt(i);
    if (c < 127) {
        if (specialChars[c]) {
            break;
        } else {
            i++;
        }
    } else if (c < 160) {
        break;
    } else if (c == 0x2028) {
        break;
    } else if (UTF16.isHighSurrogate(c)) {
        break;
    } else if (!characterSet.inCharset(c)) {
        break;
    } else {
        i++;
    }
}

// if this was the whole string write it out and exit
if (i >= clength) {
    if (segstart == 0) {
        writeCharSequence(chars);
    } else {
        writeCharSequence(chars.subSequence(segstart, i));
    }
    return;
}

// otherwise write out this sequence
if (i > segstart) {
    writeCharSequence(chars.subSequence(segstart, i));
}

// examine the special character that interrupted the scan
final char c = chars.charAt(i);
if (c==0) {
    // used to switch escaping on and off
    disabled = !disabled;
} else if (disabled) {
    if (c > 127) {
        if (UTF16.isHighSurrogate(c)) {
            int cc = UTF16.combinePair(c, chars.charAt(i+1));
            if (!characterSet.inCharset(cc)) {
                XPathException de = new XPathException("Character x" + Integer.toHexString(cc) +
                    " is not available in the chosen encoding");
            }
        }
    }
}

```

```

        de.setErrorCode("SERE0008");
        throw de;
    }
} else if (!characterSet.inCharset(c)) {
    XPathException de = new XPathException("Character " + c + " (x" + Integer.toHexString((int)c) +
        ") is not available in the chosen encoding");
    de.setErrorCode("SERE0008");
    throw de;
}
}
writer.write(c);
} else if (c >= 127 && c < 160) {
    // XML 1.1 requires these characters to be written as character references
    outputCharacterReference(c);
} else if (c >= 160) {
    if (c == 0x2028) {
        outputCharacterReference(c);
    } else if (UTF16.isHighSurrogate(c)) {
        char d = chars.charAt(++i);
        int charval = UTF16.combinePair(c, d);
        if (characterSet.inCharset(charval)) {
            writer.write(c);
            writer.write(d);
        } else {
            outputCharacterReference(charval);
        }
    } else {
        // process characters not available in the current encoding
        outputCharacterReference(c);
    }
} else {

    // process special ASCII characters

    if (c == '<') {
        writer.write("&lt;");
    } else if (c == '>') {
        writer.write("&gt;");
    } else if (c == '&') {
        writer.write("&");
    } else if (c == "\"") {
        writer.write("&#34;");
    } else if (c == "\n") {
        writer.write("&#xA;");
    } else if (c == "\r") {
        writer.write("&#xD;");
    } else if (c == "\t") {

```

```

        writer.write("&#x9;");
    } else {
        // C0 control characters
        outputCharacterReference(c);
    }
}
segstart = ++i;
}
}

/**
 * Output a decimal or hexadecimal character reference
 */

private char[] charref = new char[10];
protected void outputCharacterReference(int charval) throws java.io.IOException {
if (preferHex) {
    int o = 0;
    charref[o++]='&';
    charref[o++]='#';
    charref[o++]='x';
    String code = Integer.toHexString(charval);
    int len = code.length();
    for (int k=0; k<len; k++) {
        charref[o++] = code.charAt(k);
    }
    charref[o++]=': ';
    writer.write(charref, 0, o);
} else {
    int o = 0;
    charref[o++]='&';
    charref[o++]='#';
    String code = Integer.toString(charval);
    int len = code.length();
    for (int k=0; k<len; k++) {
        charref[o++] = code.charAt(k);
    }
    charref[o++]=': ';
    writer.write(charref, 0, o);
}
}

/**
 * Handle a comment.
 */

public void comment (CharSequence chars, int locationId, int properties) throws XPathException
{

```

```

if (empty) {
    openDocument();
}
int x = testCharacters(chars);
if (x != 0) {
    XPathException err = new XPathException("Character in comment cannot be represented " +
        "in the selected encoding (code " + x + ')');
    err.setErrorCode("SERE0008");
    throw err;
}
try {
    if (openStartTag) {
        closeStartTag();
    }
    writer.write("<!--");
    writer.write(chars.toString());
    writer.write("-->");
} catch (java.io.IOException err) {
    throw new XPathException(err);
}
}

/**
 * Get a name from the local name cache
 * @param nameCode the integer name code
 * @return a lexical QName if the name is in the cache; otherwise, null
 */

protected String getCachedName(int nameCode) {
    return (String)nameLookup.get(nameCode);
}

/**
 * Add a name to the local name cache
 * @param nameCode the integer name code
 * @param displayName the corresponding lexical QName
 */

protected void putCachedName(int nameCode, String displayName) {
    nameLookup.put(nameCode, displayName);
}

}

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```

```

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//
package net.sf.saxon.event;

import net.sf.saxon.trans.XPathException;
import net.sf.saxon.Controller;

/**
 * This filter is inserted into the serializer pipeline when serializing an implicit XSLT result tree, that
 * is, one that is created without use of xsl:result-document. Its main purpose is to check, if and only if
 * the result destination is actually written to, that it does not conflict with an explicit result destination
 * with the same URI. It also ensures that the output destination is opened before it is first written to.
 */
public class ImplicitResultChecker extends ProxyReceiver {

    private boolean clean = true;
    private boolean open = false;
    private Controller controller;

    /**
     * Create an ImplicitResultChecker. This is a filter on the output pipeline.
     * @param next the next receiver on the pipeline
     * @param controller the controller of the XSLT transformation
     */

    public ImplicitResultChecker(Receiver next, Controller controller) {
        setUnderlyingReceiver(next);
        this.controller = controller;
    }

    public void open() throws XPathException {
        super.open();
        open = true;
    }

    public void startDocument(int properties) throws XPathException {
        if (!open) {

```

```

        open();
    }
    nextReceiver.startDocument(properties);
}

public void startElement(int nameCode, int typeCode, int locationId, int properties) throws XPathException {
    if (clean) {
        firstContent();
    }
    nextReceiver.startElement(nameCode, typeCode, locationId, properties);
}

public void characters(CharSequence chars, int locationId, int properties) throws XPathException {
    if (clean) {
        firstContent();
    }
    nextReceiver.characters(chars, locationId, properties);
}

public void processingInstruction(String target, CharSequence data, int locationId, int properties) throws
XPathException {
    if (clean) {
        firstContent();
    }
    nextReceiver.processingInstruction(target, data, locationId, properties);
}

public void comment(CharSequence chars, int locationId, int properties) throws XPathException {
    if (clean) {
        firstContent();
    }
    nextReceiver.comment(chars, locationId, properties);
}

/**
 * This method does the real work. It is called when the first output is written to the implicit output
 * destination, and checks that no explicit result document has been written to the same URI
 * as the implicit result document
 * @throws XPathException
 */

private void firstContent() throws XPathException {
    controller.checkImplicitResultTree();
    if (!open) {
        open();
        startDocument(0);
    }
    clean = false;
}

```



```

}

public void close() throws XPathException {
    // If we haven't written any output, do the close only if no explicit result document has been written.
    // This will cause a file to be created and perhaps an XML declaration to be written
    if (!clean || !controller.hasThereBeenAnExplicitResultDocument()) {
        if (!open) {
            open();
        }
        nextReceiver.close();
    }
}
}

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//
package net.sf.saxon.event;
import net.sf.saxon.trans.XPathException;

/**
 * MessageEmitter is the default Receiver for xsl:message output.
 * It is the same as XMLEmitter except for an extra newline at the end of the message
 */

public class MessageEmitter extends XMLEmitter
{
    public void endDocument() throws XPathException {
        try {
            writer.write('\n');
        } catch (java.io.IOException err) {
            throw new XPathException(err);
        }
        super.close();
    }
}

```

```

public void close() throws XPathException {
    try {
        if (writer != null) {
            writer.flush();
        }
    } catch (java.io.IOException err) {
        throw new XPathException(err);
    }
}

}

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//
package net.sf.saxon.event;
import net.sf.saxon.om.NamespaceConstant;
import net.sf.saxon.om.NamePool;
import net.sf.saxon.trans.XPathException;
import net.sf.saxon.type.Type;
import net.sf.saxon.value.Whitespace;

import javax.xml.transform.OutputKeys;
import javax.xml.transform.Result;
import java.util.ArrayList;
import java.util.List;
import java.util.Properties;

/**
 * This class is used when the decision on which serialization method to use has to be delayed until the first
 * element is read. It buffers comments and processing instructions until that happens; then when the first
 * element arrives it creates a real serialization pipeline and uses that for future output.
 * @author Michael H. Kay

```

```

*/

public class UncommittedSerializer extends ProxyReceiver {

    boolean committed = false;
    List pending = null;
    Result finalResult;
    Properties outputProperties;

    /**
     * Create an uncommitted Serializer
     * @param finalResult the output destination
     * @param outputProperties the serialization properties
     */

    public UncommittedSerializer(Result finalResult, Properties outputProperties) {
        this.finalResult = finalResult;
        this.outputProperties = outputProperties;
        setUnderlyingReceiver(new Sink());
    }

    public void open() throws XPathException {
        committed = false;
    }

    /**
     * End of document
     */

    public void close() throws XPathException {
        // empty output: must send a beginDocument()/endDocument() pair to the content handler
        if (!committed) {
            switchToMethod("xml");
        }
        getUnderlyingReceiver().close();
    }

    /**
     * Produce character output using the current Writer. <BR>
     */

    public void characters(CharSequence chars, int locationId, int properties) throws XPathException {
        if (committed) {
            getUnderlyingReceiver().characters(chars, locationId, properties);
        } else {
            if (pending==null) {
                pending = new ArrayList(10);
            }
        }
    }
}

```

```

PendingNode node = new PendingNode();
node.kind = Type.TEXT;
node.name = null;
node.content = chars.toString(); // needs to be immutable
node.locationId = locationId;
node.properties = properties;
pending.add(node);
if (!Whitespace.isWhite(chars)) {
    switchToMethod("xml");
}
}
}

/**
 * Processing Instruction
 */

public void processingInstruction(String target, CharSequence data, int locationId, int properties) throws
XPathException {
    if (committed) {
        getUnderlyingReceiver().processingInstruction(target, data, locationId, properties);
    } else {
        if (pending==null) {
            pending = new ArrayList(10);
        }
        PendingNode node = new PendingNode();
        node.kind = Type.PROCESSING_INSTRUCTION;
        node.name = target;
        node.content = data;
        node.locationId = locationId;
        node.properties = properties;
        pending.add(node);
    }
}

/**
 * Output a comment
 */

public void comment (CharSequence chars, int locationId, int properties) throws XPathException {
    if (committed) {
        getUnderlyingReceiver().comment(chars, locationId, properties);
    } else {
        if (pending==null) {
            pending=new ArrayList(10);
        }
        PendingNode node = new PendingNode();
        node.kind = Type.COMMENT;

```

```

        node.name = null;
        node.content = chars;
        node.locationId = locationId;
        node.properties = properties;
        pending.add(node);
    }
}

/**
 * Output an element start tag. <br>
 * This can only be called once: it switches to a substitute output generator for XML, XHTML, or HTML,
 * depending on the element name.
 * @param nameCode The element name (tag)
 * @param typeCode The type annotation
 * @param properties Bit field holding special properties of the element
 */

public void startElement(int nameCode, int typeCode, int locationId, int properties) throws XPathException {
    if (!committed) {
        NamePool namePool = getNamePool();
        String name = namePool.getLocalName(nameCode);
        short uriCode = namePool.getURICode(nameCode);
        if (name.equalsIgnoreCase("html") && uriCode==NamespaceConstant.NULL_CODE) {
            switchToMethod("html");
        } else if (name.equals("html") &&
namePool.getURIFromURICode(uriCode).equals(NamespaceConstant.XHTML)) {
            String version = outputProperties.getProperty(SaxonOutputKeys.STYLESHEET_VERSION);
            if ("1".equals(version)) {
                switchToMethod("xml");
            } else {
                switchToMethod("xhtml");
            }
        } else {
            switchToMethod("xml");
        }
    }
    getUnderlyingReceiver().startElement(nameCode, typeCode, locationId, properties);
}

/**
 * Switch to a specific emitter once the output method is known
 * @param method the method to switch to (xml, html, xhtml)
 */

private void switchToMethod(String method) throws XPathException {
    Properties newProperties = new Properties(outputProperties);
    newProperties.setProperty(OutputKeys.METHOD, method);
    SerializerFactory sf = getConfiguration().getSerializerFactory();

```

```

Receiver target = sf.getReceiver(finalResult, getPipelineConfiguration(), newProperties);
committed = true;
target.open();
target.startDocument(0);
if (pending!=null) {
    for (int i = 0; i < pending.size(); i++) {
        PendingNode node = (PendingNode)pending.get(i);
        switch (node.kind) {
            case Type.COMMENT:
                target.comment(node.content, node.locationId, node.properties);
                break;
            case Type.PROCESSING_INSTRUCTION:
                target.processingInstruction(node.name, node.content, node.locationId, node.properties);
                break;
            case Type.TEXT:
                target.characters(node.content, node.locationId, node.properties);
                break;
        }
    }
    pending = null;
}
setUnderlyingReceiver(target);
}

/**
 * A text, comment, or PI node that hasn't been output yet because we don't yet know what output
 * method to use
 */

private static final class PendingNode {
    int kind;
    String name;
    CharSequence content;
    int properties;
    int locationId;
}

}

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```

```

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//
package net.sf.saxon.event;

import net.sf.saxon.trans.XPathException;
import net.sf.saxon.om.FastStringBuffer;

import java.io.IOException;

/**
 * The XQueryEmitter is designed to serialize an XQuery that was originally embedded in an
 * XML document. It is a variant of the XMLEmitter, and differs in that the operators <, >, <=, >=, <<, and >>
 * are output without escaping. They are recognized by virtue of the fact that they appear in text or attribute
 * content between curly braces but not in quotes.
 */

public class XQueryEmitter extends XMLEmitter {

    /**
     * Write contents of array to current writer, after escaping special characters.
     * This method converts the XML special characters (such as < and &) into their
     * predefined entities.
     *
     * @param chars    The character sequence containing the string
     * @param inAttribute Set to true if the text is in an attribute value
     */

    protected void writeEscape(final CharSequence chars, final boolean inAttribute) throws IOException,
XPathException {
        boolean inBraces = false;
        FastStringBuffer buff = new FastStringBuffer(chars.length());
        for (int i=0; i<chars.length(); i++) {
            char c = chars.charAt(i);
            if (!inBraces && c=='{' && chars.charAt(i+1)!='}') {
                inBraces = true;
                buff.append((char)0); // switch disable-output-escaping on
            } else if (inBraces && c==}')' {
                inBraces = false;
                buff.append((char)0); // switch disable-output-escaping off
            } else if (inBraces && c=="") {
                buff.append((char)0);
                i++;
            }
        }
    }
}

```

```

        do {
            buff.append(c);
            c = chars.charAt(i++);
        } while (c != "");
        buff.append((char)0);
        i--;
    } else if (inBraces && c=="\") {
        buff.append((char)0);
        i++;
        do {
            buff.append(c);
            c = chars.charAt(i++);
        } while (c != "\");
        buff.append((char)0);
        i--;
    }
    buff.append(c);
}
super.writeEscape(buff, inAttribute);
}
}

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//
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//
package net.sf.saxon.event;
import net.sf.saxon.Configuration;
import net.sf.saxon.trans.Err;
import net.sf.saxon.expr.ExpressionLocation;
import net.sf.saxon.om.*;
import net.sf.saxon.trans.XPathException;
import net.sf.saxon.type.Type;
import net.sf.saxon.value.AtomicValue;

/**
 * This class is used for generating complex content, that is, the content of an

```



```

* element or document node. It enforces the rules on the order of events within
* complex content (attributes and namespaces must come first), and it implements
* part of the namespace fixup rules, in particular, it ensures that there is a
* namespace node for the namespace used in the element name and in each attribute
* name.
*
* <p>The same ComplexContentOutputter may be used for generating an entire XML
* document; it is not necessary to create a new outputter for each element node.</p>
*
* @author Michael H. Kay
*/

```

```

public final class ComplexContentOutputter extends SequenceReceiver {

    private Receiver nextReceiver;
        // the next receiver in the output pipeline

    private int pendingStartTag = -2;
        // -2 means we are at the top level, or immediately within a document node
        // -1 means we are in the content of an element node whose start tag is complete
    private int level = -1; // records the number of startDocument or startElement events
        // that have not yet been closed. Note that startDocument and startElement
        // events may be arbitrarily nested; startDocument and endDocument
        // are ignored unless they occur at the outermost level, except that they
        // still change the level number

    private boolean[] currentLevelIsDocument = new boolean[20];
    private Boolean elementIsInNullNamespace;
    private int[] pendingAttCode = new int[20];
    private int[] pendingAttType = new int[20];
    private String[] pendingAttValue = new String[20];
    private int[] pendingAttLocation = new int[20];
    private int[] pendingAttProp = new int[20];
    private int pendingAttListSize = 0;

    private int[] pendingNSList = new int[20];
    private int pendingNSListSize = 0;

    private int currentSimpleType = -1; // any other value means we are currently writing an
        // element of a particular simple type

    private int startElementProperties;
    private int startElementLocationId;
    private boolean declaresDefaultNamespace;
    private int hostLanguage = Configuration.XSLT;
    private boolean started = false;

    /**
     * Create a ComplexContentOutputter

```

```

*/

public ComplexContentOutputter() {}

public void setPipelineConfiguration(PipelineConfiguration pipe) {
    if (pipelineConfiguration != pipe) {
        pipelineConfiguration = pipe;
        if (nextReceiver != null) {
            nextReceiver.setPipelineConfiguration(pipe);
        }
    }
}

/**
 * Set the host language
 * @param language the host language, for example { @link Configuration#XQUERY }
 */

public void setHostLanguage(int language) {
    hostLanguage = language;
}

/**
 * Set the receiver (to handle the next stage in the pipeline) directly
 * @param receiver the receiver to handle the next stage in the pipeline
 */

public void setReceiver(Receiver receiver) {
    this.nextReceiver = receiver;
}

/**
 * Test whether any content has been written to this ComplexContentOutputter
 * @return true if content has been written
 */

public boolean contentHasBeenWritten() {
    return started;
}

/**
 * Start the output process
 */

public void open() throws XPathException {
    nextReceiver.open();
    previousAtomic = false;
}

```

```

/**
 * Start of a document node.
 */

public void startDocument(int properties) throws XPathException {
    level++;
    if (level == 0) {
        nextReceiver.startDocument(properties);
    } else if (pendingStartTag >= 0) {
        startContent();
        pendingStartTag = -2;
    }
    previousAtomic = false;
    if (currentLevelIsDocument.length < level+1) {
        boolean[] b2 = new boolean[level*2];
        System.arraycopy(currentLevelIsDocument, 0, b2, 0, level);
        currentLevelIsDocument = b2;
    }
    currentLevelIsDocument[level] = true;
}

/**
 * Notify the end of a document node
 */

public void endDocument() throws XPathException {
    if (level == 0) {
        nextReceiver.endDocument();
    }
    level--;
}

/**
 * Produce text content output. <BR>
 * Special characters are escaped using XML/HTML conventions if the output format
 * requires it.
 * @param s The String to be output
 * @exception XPathException for any failure
 */

public void characters(CharSequence s, int locationId, int properties) throws XPathException {
    previousAtomic = false;
    if (s==null) return;
    int len = s.length();
    if (len==0) return;

```

```

    if (pendingStartTag >= 0) {
        startContent();
    }
    nextReceiver.characters(s, locationId, properties);
}

/**
 * Output an element start tag. <br>
 * The actual output of the tag is deferred until all attributes have been output
 * using attribute().
 * @param nameCode The element name code
 */

public void startElement(int nameCode, int typeCode, int locationId, int properties) throws XPathException {
    // System.err.println("StartElement " + nameCode);
    level++;
    started = true;
    if (pendingStartTag >= 0) {
        startContent();
    }
    startElementProperties = properties;
    startElementLocationId = locationId;
    pendingAttListSize = 0;
    pendingNSListSize = 0;
    pendingStartTag = nameCode;
    elementIsNullNamespace = null; // meaning not yet computed
    declaresDefaultNamespace = false;
    currentSimpleType = typeCode;
    previousAtomic = false;
    if (currentLevelIsDocument.length < level+1) {
        boolean[] b2 = new boolean[level*2];
        System.arraycopy(currentLevelIsDocument, 0, b2, 0, level);
        currentLevelIsDocument = b2;
    }
    currentLevelIsDocument[level] = false;
}

/**
 * Output a namespace declaration. <br>
 * This is added to a list of pending namespaces for the current start tag.
 * If there is already another declaration of the same prefix, this one is
 * ignored, unless the REJECT_DUPLICATES flag is set, in which case this is an error.
 * Note that unlike SAX2 startPrefixMapping(), this call is made AFTER writing the start tag.
 * @param nscope The namespace code
 * @throws XPathException if there is no start tag to write to (created using writeStartTag),
 * or if character content has been written since the start tag was written.
 */

```

```

public void namespace(int nscope, int properties)
throws XPathException {

    // System.err.println("Write namespace prefix=" + (nscode>>16) + " uri=" + (nscode&0xffff));
    NamePool pool = getNamePool();
    if (pendingStartTag < 0) {
        throw NoOpenStartTagException.makeNoOpenStartTagException(
            Type.NAMESPACE,
            pool.getPrefixFromNamespaceCode(nscode),
            hostLanguage,
            pendingStartTag == -2,
            getPipelineConfiguration().isSerializing()
        );
    }

    // elimination of namespaces already present on an outer element of the
    // result tree is done by the NamespaceReducer.

    // Handle declarations whose prefix is duplicated for this element.

    boolean rejectDuplicates = (properties & ReceiverOptions.REJECT_DUPLICATES) != 0;

    for (int i=0; i<pendingNSListSize; i++) {
        if (nscode == pendingNSList[i]) {
            // same prefix and URI: ignore this duplicate
            return;
        }
        if ((nscode>>16) == (pendingNSList[i]>>16)) {
            if (rejectDuplicates) {
                String prefix = pool.getPrefixFromNamespaceCode(nscode);
                String uri1 = pool.getURIFromNamespaceCode(nscode);
                String uri2 = pool.getURIFromNamespaceCode(pendingNSList[i]);
                XPathException err = new XPathException("Cannot create two namespace nodes with the same prefix
mapped to different URIs (prefix=" +
                    (prefix.length() == 0 ? "\\\" : prefix) + ", URI=" +
                    (uri1.length() == 0 ? "\\\" : uri1) + ", URI=" +
                    (uri2.length() == 0 ? "\\\" : uri2) + ")");
                err.setErrorCode("XTDE0430");
                throw err;
            } else {
                // same prefix, do a quick exit
                return;
            }
        }
    }
}

// It is an error to output a namespace node for the default namespace if the element

```

```

// itself is in the null namespace, as the resulting element could not be serialized

if (((nscode>>16) == 0) && ((nscode&0xffff)!=0)) {
    declaresDefaultNamespace = true;
    if (elementIsInNullNamespace == null) {
        elementIsInNullNamespace = Boolean.valueOf(
            pool.getURI(pendingStartTag).equals(NamespaceConstant.NULL));
    }
    if (elementIsInNullNamespace.booleanValue()) {
        XPathException err = new XPathException("Cannot output a namespace node for the default namespace
when the element is in no namespace");
        err.setErrorCode("XTDE0440");
        throw err;
    }
}

// if it's not a duplicate namespace, add it to the list for this start tag

if (pendingNSListSize+1 > pendingNSList.length) {
    int[] newlist = new int[pendingNSListSize * 2];
    System.arraycopy(pendingNSList, 0, newlist, 0, pendingNSListSize);
    pendingNSList = newlist;
}
pendingNSList[pendingNSListSize++] = nscode;
previousAtomic = false;
}

/**
 * Output an attribute value. <br>
 * This is added to a list of pending attributes for the current start tag, overwriting
 * any previous attribute with the same name. <br>
 * This method should NOT be used to output namespace declarations.<br>
 * @param nameCode The name of the attribute
 * @param value The value of the attribute
 * @param properties Bit fields containing properties of the attribute to be written
 * @throws XPathException if there is no start tag to write to (created using writeStartTag),
 * or if character content has been written since the start tag was written.
 */

public void attribute(int nameCode, int typeCode, CharSequence value, int locationId, int properties) throws
XPathException {
    //System.err.println("Write attribute " + nameCode + "=" + value + " to Outputter " + this);

    if (pendingStartTag < 0) {
        // The complexity here is in identifying the right error message and error code

        XPathException err = NoOpenStartTagException.makeNoOpenStartTagException(

```

```

        Type.ATTRIBUTE,
        getNamePool().getDisplayName(nameCode),
        hostLanguage,
        level<0 || currentLevelIsDocument[level],
        getPipelineConfiguration().isSerializing());
LocationProvider lp = getPipelineConfiguration().getLocationProvider();
if (lp != null) {
    err.setLocator(new ExpressionLocation(lp, locationId));
}
throw err;
}

// if this is a duplicate attribute, overwrite the original, unless
// the REJECT_DUPLICATES option is set.

for (int a=0; a<pendingAttListSize; a++) {
    if ((pendingAttCode[a] & 0xffff) == (nameCode & 0xffff)) {
        if (hostLanguage == Configuration.XSLT) {
            pendingAttType[a] = typeCode;
            pendingAttValue[a] = value.toString();
            // we have to copy the CharSequence, because some kinds of CharSequence are mutable.
            pendingAttLocation[a] = locationId;
            pendingAttProp[a] = properties;
            return;
        } else {
            XPathException err = new XPathException("Cannot create an element having two attributes with the
same name: " +
                Err.wrap(getNamePool().getDisplayName(nameCode), Err.ATTRIBUTE));
            err.setErrorCode("XQDY0025");
            throw err;
        }
    }
}

// otherwise, add this one to the list

if (pendingAttListSize >= pendingAttCode.length) {
    int[] attCode2 = new int[pendingAttListSize*2];
    int[] attType2 = new int[pendingAttListSize*2];
    String[] attValue2 = new String[pendingAttListSize*2];
    int[] attLoc2 = new int[pendingAttListSize*2];
    int[] attProp2 = new int[pendingAttListSize*2];
    System.arraycopy(pendingAttCode, 0, attCode2, 0, pendingAttListSize);
    System.arraycopy(pendingAttType, 0, attType2, 0, pendingAttListSize);
    System.arraycopy(pendingAttValue, 0, attValue2, 0, pendingAttListSize);
    System.arraycopy(pendingAttLocation, 0, attLoc2, 0, pendingAttListSize);
    System.arraycopy(pendingAttProp, 0, attProp2, 0, pendingAttListSize);
    pendingAttCode = attCode2;

```

```

        pendingAttType = attType2;
        pendingAttValue = attValue2;
        pendingAttLocation = attLoc2;
        pendingAttProp = attProp2;
    }

    pendingAttCode[pendingAttListSize] = nameCode;
    pendingAttType[pendingAttListSize] = typeCode;
    pendingAttValue[pendingAttListSize] = value.toString();
    pendingAttLocation[pendingAttListSize] = locationId;
    pendingAttProp[pendingAttListSize] = properties;
    pendingAttListSize++;
    previousAtomic = false;
}

/**
 * Check that the prefix for an element or attribute is acceptable, allocating a substitute
 * prefix if not. The prefix is acceptable unless a namespace declaration has been
 * written that assigns this prefix to a different namespace URI. This method
 * also checks that the element or attribute namespace has been declared, and declares it
 * if not.
 * @param nameCode the proposed name, including proposed prefix
 * @param seq sequence number, used for generating a substitute prefix when necessary
 * @return a nameCode to use in place of the proposed nameCode (or the original nameCode
 * if no change is needed)
 */
private int checkProposedPrefix(int nameCode, int seq) throws XPathException {
    NamePool namePool = getNamePool();
    int nscore = namePool.getNamespaceCode(nameCode);
    if (nscore == -1) {
        // avoid calling allocate where possible, because it's synchronized
        nscore = namePool.allocateNamespaceCode(nameCode);
    }
    int nsprefix = nscore>>16;

    for (int i=0; i<pendingNSListSize; i++) {
        if (nsprefix == (pendingNSList[i]>>16)) {
            // same prefix
            if ((nscore & 0xffff) == (pendingNSList[i] & 0xffff)) {
                // same URI
                return nameCode; // all is well
            } else {
                String prefix = getSubstitutePrefix(nscore, seq);

                int newCode = namePool.allocate(
                    prefix,
                    namePool.getURI(nameCode),

```



```

        namePool.getLocalName(nameCode));
    namespace(namePool.allocateNamespaceCode(newCode), 0);
    return newCode;
}
}
}
// no declaration of this prefix: declare it now
namespace(nscore, 0);
return nameCode;
}

/**
 * It is possible for a single output element to use the same prefix to refer to different
 * namespaces. In this case we have to generate an alternative prefix for uniqueness. The
 * one we generate is based on the sequential position of the element/attribute: this is
 * designed to ensure both uniqueness (with a high probability) and repeatability
 * @param nscode the proposed namespace code
 * @param seq sequence number for use in the substitute prefix
 * @return a prefix to use in place of the one originally proposed
 */

private String getSubstitutePrefix(int nscode, int seq) {
    String prefix = getNamePool().getPrefixFromNamespaceCode(nscore);
    return prefix + '_' + seq;
}

/**
 * Output an element end tag.
 */

public void endElement() throws XPathException {
    //System.err.println("Write end tag " + this + " : " + name);
    if (pendingStartTag >= 0) {
        startContent();
    } else {
        pendingStartTag = -2;
    }

    // write the end tag

    nextReceiver.endElement();
    level--;
    previousAtomic = false;
}

/**
 * Write a comment
 */

```

```

public void comment(CharSequence comment, int locationId, int properties) throws XPathException {
    if (pendingStartTag >= 0) {
        startContent();
    }
    nextReceiver.comment(comment, locationId, properties);
    previousAtomic = false;
}

/**
 * Write a processing instruction
 */

public void processingInstruction(String target, CharSequence data, int locationId, int properties) throws
XPathException {
    if (pendingStartTag >= 0) {
        startContent();
    }
    nextReceiver.processingInstruction(target, data, locationId, properties);
    previousAtomic = false;
}

/**
 * Append an arbitrary item (node or atomic value) to the output
 * @param item the item to be appended
 * @param locationId the location of the calling instruction, for diagnostics
 * @param copyNamespaces if the item is an element node, this indicates whether its namespaces
 * need to be copied. Values are { @link net.sf.saxon.om.NodeInfo#ALL_NAMESPACES }, { @link
net.sf.saxon.om.NodeInfo#LOCAL_NAMESPACES },
 * { @link net.sf.saxon.om.NodeInfo#NO_NAMESPACES }
 */

public void append(Item item, int locationId, int copyNamespaces) throws XPathException {
    if (item == null) {
        //return;
    } else if (item instanceof AtomicValue) {
        if (previousAtomic) {
            characters(" ", locationId, 0);
        }
        characters(item.getStringValueCS(), locationId, 0);
        previousAtomic = true;
    } else if (((NodeInfo)item).getNodeKind() == Type.DOCUMENT) {
        startDocument(0);
        SequenceIterator iter = ((NodeInfo)item).iterateAxis(Axis.CHILD);
        while (true) {
            Item it = iter.next();
            if (it == null) break;
            append(it, locationId, copyNamespaces);
        }
    }
}

```

```

    }
    endDocument();
    previousAtomic = false;
} else {
    try {
        ((NodeInfo)item).copy(this, copyNamespaces, true, locationId);
    } catch (CopyNamespaceSensitiveException e) {
        e.setErrorCode((hostLanguage == Configuration.XSLT ? "XTTE0950" : "XQTY0086"));
        throw e;
    }
    previousAtomic = false;
}
}

/**
 * Close the output
 */

public void close() throws XPathException {
    // System.err.println("Close " + this + " using emitter " + emitter.getClass());
    nextReceiver.close();
    previousAtomic = false;
}

/**
 * Flush out a pending start tag
 */

public void startContent() throws XPathException {

    if (pendingStartTag < 0) {
        // this can happen if the method is called from outside,
        // e.g. from a SequenceOutputter earlier in the pipeline
        return;
    }

    started = true;
    int props = startElementProperties;
    int elcode = pendingStartTag;
    if (declaresDefaultNamespace || NamePool.getPrefixIndex(elcode) != 0) {
        // skip this check if the element is unprefixed and no xmlns="abc" declaration has been encountered
        elcode = checkProposedPrefix(pendingStartTag, 0);
        props = startElementProperties | ReceiverOptions.NAMESPACE_OK;
    }
    nextReceiver.startElement(elcode, currentSimpleType, startElementLocationId, props);

    for (int a=0; a<pendingAttListSize; a++) {

```

```

        int attcode = pendingAttCode[a];
        if (NamePool.getPrefixIndex(attcode) != 0) { // non-null prefix
            pendingAttCode[a] = checkProposedPrefix(attcode, a+1);
        }
    }

    for (int n=0; n<pendingNSListSize; n++) {
        nextReceiver.namespace(pendingNSList[n], 0);
    }

    for (int a=0; a<pendingAttListSize; a++) {
        nextReceiver.attribute( pendingAttCode[a],
                                pendingAttType[a],
                                pendingAttValue[a],
                                pendingAttLocation[a],
                                pendingAttProp[a]);
    }

    nextReceiver.startContent();

    pendingAttListSize = 0;
    pendingNSListSize = 0;
    pendingStartTag = -1;
    previousAtomic = false;
}

}

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//
package net.sf.saxon.event;

import net.sf.saxon.om.NamePool;

```

```

import net.sf.saxon.om.NamespaceConstant;
import net.sf.saxon.sort.IntHashSet;
import net.sf.saxon.trans.XPathException;

/**
 * XHTMLEmitter is an Emitter that generates XHTML output.
 * It is the same as XMLEmitter except that it follows the legacy HTML browser
 * compatibility rules: for example, generating empty elements such as [BR /], and
 * using [p][p] for empty paragraphs rather than [p/]
 */

public class XHTMLEmitter extends XMLEmitter {

    /**
     * Table of XHTML tags that have no closing tag
     */

    IntHashSet emptyTags = new IntHashSet(31);

    private static String[] emptyTagNameNames = {
        "area", "base", "basefont", "br", "col", "frame", "hr", "img", "input", "isindex", "link", "meta", "param"
    };

    /**
     * Do the real work of starting the document. This happens when the first
     * content is written.
     *
     * @throws net.sf.saxon.trans.XPathException
     */

    protected void openDocument() throws XPathException {
        NamePool pool = getPipelineConfiguration().getConfiguration().getNamePool();
        for (int i=0; i<emptyTagNameNames.length; i++) {
            emptyTags.add(pool.allocate("", NamespaceConstant.XHTML, emptyTagNameNames[i]) &
NamePool.FP_MASK);
        }
        super.openDocument();
    }

    /**
     * Close an empty element tag.
     */

    protected String emptyElementTagCloser(String displayName, int nameCode) {
        if (emptyTags.contains(nameCode & NamePool.FP_MASK)) {
            return " />";
        }
    }
}

```

```

    } else {
        return "><" + displayName + '>';
    }
}

}

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//
package net.sf.saxon.type;

import net.sf.saxon.expr.Expression;
import net.sf.saxon.expr.StaticContext;
import net.sf.saxon.om.*;
import net.sf.saxon.om.StandardNames;
import net.sf.saxon.value.UntypedAtomicValue;
import net.sf.saxon.value.Value;
import net.sf.saxon.value.Whitespace;

/**
 * This class has a singleton instance which represents the XML Schema built-in type xs:anySimpleType
 */

public final class AnySimpleType implements SimpleType {

    private static AnySimpleType theInstance = new AnySimpleType();

    /**
     * Private constructor
     */
    private AnySimpleType() {
    }
}

```

```

/**
 * Get the local name of this type
 *
 * @return the local name of this type definition, if it has one. Return null in the case of an
 *         anonymous type.
 */

public String getName() {
    return "anySimpleType";
}

/**
 * Get the target namespace of this type
 *
 * @return the target namespace of this type definition, if it has one. Return null in the case
 *         of an anonymous type, and in the case of a global type defined in a no-namespace schema.
 */

public String getTargetNamespace() {
    return NamespaceConstant.SCHEMA;
}

/**
 * Return true if this is an external object type, that is, a Saxon-defined type for external
 * Java or .NET objects
 */

public boolean isExternalType() {
    return false;
}

/**
 * Determine whether this is a built-in type or a user-defined type
 */

public boolean isBuiltInType() {
    return true;
}

/**
 * Get the URI of the schema document containing the definition of this type
 * @return null for a built-in type
 */

public String getSystemId() {
    return null;
}

```

```

/**
 * Get the most specific possible atomic type that all items in this SimpleType belong to
 * @return the lowest common supertype of all member types
 */

public AtomicType getCommonAtomicType() {
    return BuiltInAtomicType.ANY_ATOMIC;
}

/**
 * Get the singular instance of this class
 * @return the singular object representing xs:anyType
 */

public static AnySimpleType getInstance() {
    return theInstance;
}

/**
 * Get the validation status - always valid
 */
public int getValidationStatus() {
    return VALIDATED;
}

/**
 * Get the base type
 * @return AnyType
 */

public SchemaType getBaseType() {
    return AnyType.getInstance();
}

/**
 * Returns the base type that this type inherits from. This method can be used to get the
 * base type of a type that is known to be valid.
 * @return the base type.
 */

public SchemaType getKnownBaseType() throws IllegalStateException {
    return getBaseType();
}

/**
 * Test whether this SchemaType is a complex type
 *
 * @return true if this SchemaType is a complex type

```



```

*/

public boolean isComplexType() {
    return false;
}

/**
 * Test whether this SchemaType is a simple type
 * @return true if this SchemaType is a simple type
 */

public boolean isSimpleType() {
    return true;
}

/**
 * Get the fingerprint of the name of this type
 * @return the fingerprint.
 */

public int getFingerprint() {
    return StandardNames.XS_ANY_SIMPLE_TYPE;
}

/**
 * Get the namecode of the name of this type. This includes the prefix from the original
 * type declaration: in the case of built-in types, there may be a conventional prefix
 * or there may be no prefix.
 */

public int getNameCode() {
    return StandardNames.XS_ANY_SIMPLE_TYPE;
}

/**
 * Get a description of this type for use in diagnostics
 * @return the string "xs:anyType"
 */

public String getDescription() {
    return "xs:anySimpleType";
}

/**
 * Get the display name of the type: that is, a lexical QName with an arbitrary prefix
 *
 * @return a lexical QName identifying the type
 */

```

```

public String getDisplayName() {
    return "xs:anySimpleType";
}

/**
 * Test whether this is the same type as another type. They are considered to be the same type
 * if they are derived from the same type definition in the original XML representation (which
 * can happen when there are multiple includes of the same file)
 */

public boolean isSameType(SchemaType other) {
    return (other instanceof AnySimpleType);
}

/**
 * Get the typed value of a node that is annotated with this schema type. This shouldn't happen: nodes
 * are never annotated as xs:anySimpleType; but if it does happen, we treat it as if it were
 * untypedAtomic.
 * @param node the node whose typed value is required
 * @return an iterator returning a single untyped atomic value, equivalent to the string value of the node.
 */

public SequenceIterator getTypedValue(NodeInfo node) {
    return SingletonIterator.makeIterator(new UntypedAtomicValue(node.getStringValueCS()));
}

/**
 * Get the typed value of a node that is annotated with this schema type. The result of this method will always be
 consistent with the method
 * { @link #getTypedValue}. However, this method is often more convenient and may be
 * more efficient, especially in the common case where the value is expected to be a singleton.
 *
 * @param node the node whose typed value is required
 * @return the typed value.
 * @since 8.5
 */

public Value atomize(NodeInfo node) {
    return new UntypedAtomicValue(node.getStringValueCS());
}

/**
 * Check that this type is validly derived from a given type
 *
 * @param type the type from which this type is derived
 * @param block the derivations that are blocked by the relevant element declaration
 * @throws SchemaException

```

```

*     if the derivation is not allowed
*/

public void checkTypeDerivationIsOK(SchemaType type, int block) throws SchemaException {
    if (type == this) {
        return;
    }
    throw new SchemaException("Cannot derive xs:anySimpleType from another type");
}

/**
 * Test whether this Simple Type is an atomic type
 * @return false, this is not (necessarily) an atomic type
 */

public boolean isAtomicType() {
    return false;
}

public boolean isAnonymousType() {
    return false;
}

/**
 * Determine whether this is a list type
 * @return false (it isn't a list type)
 */

public boolean isListType() {
    return false;
}

/**
 * Determin whether this is a union type
 * @return false (it isn't a union type)
 */

public boolean isUnionType() {
    return false;
}

/**
 * Get the built-in ancestor of this type in the type hierarchy
 * @return this type itself
 */

public SchemaType getBuiltInBaseType() {
    return this;
}

```

```

/**
 * Get the typed value corresponding to a given string value, assuming it is
 * valid against this type
 *
 * @param value the string value
 * @param resolver a namespace resolver used to resolve any namespace prefixes appearing
 * in the content of values. Can supply null, in which case any namespace-sensitive content
 * will be rejected.
 * @param nameChecker
 * @return an iterator over the atomic sequence comprising the typed value. The objects
 * returned by this SequenceIterator will all be of type {@link net.sf.saxon.value.AtomicValue}
 */

public SequenceIterator getTypedValue(CharSequence value, NamespaceResolver resolver, NameChecker
nameChecker) {
    return SingletonIterator.makeIterator(new UntypedAtomicValue(value));
}

/**
 * Check whether a given input string is valid according to this SimpleType
 * @param value the input string to be checked
 * @param nsResolver a namespace resolver used to resolve namespace prefixes if the type
 * is namespace sensitive. The value supplied may be null; in this case any namespace-sensitive
 * content will throw an UnsupportedOperationException.
 * @param nameChecker
 * @return null if validation succeeds (which it always does for this implementation)
 * @throws UnsupportedOperationException if the type is namespace-sensitive and no namespace
 * resolver is supplied
 */
public ValidationFailure validateContent(CharSequence value, NamespaceResolver nsResolver, NameChecker
nameChecker) {
    return null;
}

/**
 * Test whether this type represents namespace-sensitive content
 * @return false
 */
public boolean isNamespaceSensitive() {
    return false;
}

/**
 * Returns the value of the 'block' attribute for this type, as a bit-significant
 * integer with fields such as {@link SchemaType#DERIVATION_LIST} and {@link
SchemaType#DERIVATION_EXTENSION}
 *
 * @return the value of the 'block' attribute for this type

```

```

*/

public int getBlock() {
    return 0;
}

/**
 * Gets the integer code of the derivation method used to derive this type from its
 * parent. Returns zero for primitive types.
 *
 * @return a numeric code representing the derivation method, for example {@link
SchemaType#DERIVATION_RESTRICTION}
 */

public int getDerivationMethod() {
    return SchemaType.DERIVATION_RESTRICTION;
}

/**
 * Determines whether derivation (of a particular kind)
 * from this type is allowed, based on the "final" property
 *
 * @param derivation the kind of derivation, for example {@link SchemaType#DERIVATION_LIST}
 * @return true if this kind of derivation is allowed
 */

public boolean allowsDerivation(int derivation) {
    return true;
}

/**
 * Determine how values of this simple type are whitespace-normalized.
 *
 * @return one of {@link net.sf.saxon.value.Whitespace#PRESERVE}, {@link
net.sf.saxon.value.Whitespace#COLLAPSE},
 *      {@link net.sf.saxon.value.Whitespace#REPLACE}.
 * @param th the type hierarchy cache
 */

public int getWhitespaceAction(TypeHierarchy th) {
    return Whitespace.COLLAPSE;
}

/**
 * Analyze an expression to see whether the expression is capable of delivering a value of this
 * type.
 *
 * @param expression the expression that delivers the content

```

```

* @param kind    the node kind whose content is being delivered: {@link net.sf.saxon.type.Type#ELEMENT},
*                {@link net.sf.saxon.type.Type#ATTRIBUTE}, or {@link net.sf.saxon.type.Type#DOCUMENT}
* @param env
*/

public void analyzeContentExpression(Expression expression, int kind, StaticContext env) {
    //return;
}
}

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//
package net.sf.saxon.type;

import net.sf.saxon.sort.IntHashSet;

/**
 * A complex type as defined in XML Schema: either a user-defined complex type, or xs:anyType, or xs:untyped.
 * In the non-schema-aware version of the Saxon product, the only complex type encountered is xs:untyped.
 */

public interface ComplexType extends SchemaType {

    /**
     * Test whether this complex type has been marked as abstract. This corresponds to
     * the {abstract} property in the schema component model.
     *
     * @return true if this complex type is abstract.
     */

    public boolean isAbstract();
}

```

```
/**
 * Test whether this complex type has complex content. This represents one aspect of the
 * {content type} property in the schema component model.
 *
 * @return true if this complex type has a complex content model, false if it has a simple content model
 */
```

```
public boolean isComplexContent();
```

```
/**
 * Test whether this complexType has simple content. This represents one aspect of the
 * {content type} property in the schema component model.
 *
 * @return true if this complex type has a simple content model, false if it has a complex content model
 */
```

```
public boolean isSimpleContent();
```

```
/**
 * Test whether this complex type has "all" content, that is, a content model
 * using an xs:all compositor
 * @return true if the type has an "all" content model
 */
```

```
public boolean isAllContent();
```

```
/**
 * Get the simple content type. This represents one aspect of the
 * {content type} property in the schema component model.
 *
 * @return For a complex type with simple content, returns the simple type of the content.
 * Otherwise, returns null.
 */
```

```
public SimpleType getSimpleContentType();
```

```
/**
 * Test whether this complex type is derived by restriction. This corresponds to one
 * aspect of the {derivation method} property in the schema component model.
 *
 * @return true if this complex type is derived by restriction
 */
```

```
public boolean isRestricted();
```

```
/**
 * Test whether the content model of this complex type is empty. This represents one aspect of the
```

```

* {content type} property in the schema component model.
*
* @return true if the content model is defined as empty
*/

public boolean isEmptyContent();

/**
 * Test whether the content model of this complex type allows empty content. This property applies only if
 * this is a complex type with complex content.
 *
 * @return true if empty content is valid
 */

public boolean isEmptyable() throws SchemaException;

/**
 * Test whether this complex type allows mixed content. This represents one aspect of the
 * {content type} property in the schema component model. This property applies only if
 * this is a complex type with complex content.
 *
 * @return true if mixed content is allowed
 */

public boolean isMixedContent();

/**
 * Test whether this complex type subsumes another complex type. The algorithm
 * used is as published by Thompson and Tobin, XML Europe 2003.
 * @param sub the other type (the type that is derived by restriction, validly or otherwise)
 * @param compiler used for error reporting
 * @return null indicating that this type does indeed subsume the other; or a string indicating
 * why it doesn't.
 */

//public String subsumes(ComplexType sub, ISchemaCompiler compiler) throws SchemaException;

/**
 * Find an element particle within this complex type definition having a given element name
 * (identified by fingerprint), and return the schema type associated with that element particle.
 * If there is no such particle, return null. If the fingerprint matches an element wildcard,
 * return the type of the global element declaration with the given name if one exists, or AnyType
 * if none exists and lax validation is permitted by the wildcard.
 * @param fingerprint Identifies the name of the child element within this content model
 * @param considerExtensions
 * @return the schema type associated with the child element particle with the given name.
 * If there is no such particle, return null.
 */

```



```

public SchemaType getElementParticleType(int fingerprint, boolean considerExtensions) throws
SchemaException, ValidationException;

/**
 * Find an element particle within this complex type definition having a given element name
 * (identified by fingerprint), and return the cardinality associated with that element particle,
 * that is, the number of times the element can occur within this complex type. The value is one of
 * {@link net.sf.saxon.expr.StaticProperty#EXACTLY_ONE}, {@link
net.sf.saxon.expr.StaticProperty#ALLOWS_ZERO_OR_ONE},
 * {@link net.sf.saxon.expr.StaticProperty#ALLOWS_ZERO_OR_MORE}, {@link
net.sf.saxon.expr.StaticProperty#ALLOWS_ONE_OR_MORE},
 * If there is no such particle, return {@link net.sf.saxon.expr.StaticProperty#EMPTY}.
 * @param fingerprint Identifies the name of the child element within this content model
 * @param searchExtensionTypes
 * @return the cardinality associated with the child element particle with the given name.
 * If there is no such particle, return {@link net.sf.saxon.expr.StaticProperty#EMPTY}.
 */

public int getElementParticleCardinality(int fingerprint, boolean searchExtensionTypes) throws SchemaException,
ValidationException;

/**
 * Find an attribute use within this complex type definition having a given attribute name
 * (identified by fingerprint), and return the schema type associated with that attribute.
 * If there is no such attribute use, return null. If the fingerprint matches an attribute wildcard,
 * return the type of the global attribute declaration with the given name if one exists, or AnySimpleType
 * if none exists and lax validation is permitted by the wildcard.
 * <p>
 * If there are types derived from this type by extension, search those too.
 * @param fingerprint Identifies the name of the child element within this content model
 * @return the schema type associated with the attribute use identified by the fingerprint.
 * If there is no such attribute use, return null.
 */

public SchemaType getAttributeUseType(int fingerprint) throws SchemaException, ValidationException;

/**
 * Return true if this type (or any known type derived from it by extension) allows the element
 * to have one or more attributes.
 * @return true if attributes are allowed
 */

public boolean allowsAttributes();

/**
 * Get a list of all the names of elements that can appear as children of an element having this
 * complex type, as integer fingerprints. If the list is unbounded (because of wildcards or the use

```

```

* of xs:anyType), return null.
* @param children an integer set, initially empty, which on return will hold the fingerprints of all permitted
* child elements; if the result contains the value -1, this indicates that it is not possible to enumerate
* all the children, typically because of wildcards. In this case the other contents of the set should
* be ignored.
*/

public void gatherAllPermittedChildren(IntHashSet children) throws SchemaException;

/**
* Get a list of all the names of elements that can appear as descendants of an element having this
* complex type, as integer fingerprints. If the list is unbounded (because of wildcards or the use
* of xs:anyType), include a -1 in the result.
* @param descendants an integer set, initially empty, which on return will hold the fingerprints of all permitted
* descendant elements; if the result contains the value -1, this indicates that it is not possible to enumerate
* all the descendants, typically because of wildcards. In this case the other contents of the set should
* be ignored.
*/

public void gatherAllPermittedDescendants(IntHashSet descendants) throws SchemaException;

}

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//
package net.sf.saxon.type;

import net.sf.saxon.om.NameChecker;
import net.sf.saxon.om.NamespaceResolver;
import net.sf.saxon.om.SequenceIterator;

/**

```

```
* This interface represents a simple type, which may be a built-in simple type, or
* a user-defined simple type.
*/
```

```
public interface SimpleType extends SchemaType {
```

```
/**
```

```
 * Test whether this Simple Type is an atomic type
 * @return true if this is an atomic type
 */
```

```
boolean isAtomicType();
```

```
/**
```

```
 * Test whether this Simple Type is a list type
 * @return true if this is a list type
 */
```

```
boolean isListType();
```

```
/**
```

```
 * Test whether this Simple Type is a union type
 * @return true if this is a union type
 */
```

```
boolean isUnionType();
```

```
/**
```

```
 * Return true if this is an external object type, that is, a Saxon-defined type for external
 * Java or .NET objects
 * @return true if this is an external type
 */
```

```
boolean isExternalType();
```

```
/**
```

```
 * Get the most specific possible atomic type that all items in this SimpleType belong to
 * @return the lowest common supertype of all member types
 */
```

```
AtomicType getCommonAtomicType();
```

```
/**
```

```
 * Determine whether this is a built-in type or a user-defined type
 * @return true if this is a built-in type
 */
```

```
boolean isBuiltInType();
```

```

/**
 * Get the built-in type from which this type is derived by restriction
 * @return the built-in type from which this type is derived by restriction. This will not necessarily
 * be a primitive type.
 */

SchemaType getBuiltInBaseType();

/**
 * Get the typed value corresponding to a given string value, assuming it is
 * valid against this type
 * @param value the string value
 * @param resolver a namespace resolver used to resolve any namespace prefixes appearing
 * in the content of values. Can supply null, in which case any namespace-sensitive content
 * will be rejected.
 * @param nameChecker a NameChecker used in the case of types that are defined in terms of the
 * XML NCName syntax: this is used to check conformance to XML 1.0 or XML 1.1 naming rules, as
 * appropriate
 * @return an iterator over the atomic sequence comprising the typed value. The objects
 * returned by this SequenceIterator will all be of type {@link net.sf.saxon.value.AtomicValue},
 * The next() method on the iterator throws no checked exceptions, although it is not actually
 * declared as an UnfailingIterator.
 * @throws ValidationException if the supplied value is not in the lexical space of the data type
 */

public SequenceIterator getTypedValue(CharSequence value, NamespaceResolver resolver, NameChecker
nameChecker)
    throws ValidationException;

/**
 * Check whether a given input string is valid according to this SimpleType
 * @param value the input string to be checked
 * @param nsResolver a namespace resolver used to resolve namespace prefixes if the type
 * is namespace sensitive. The value supplied may be null; in this case any namespace-sensitive
 * content will throw an UnsupportedOperationException.
 * @param nameChecker XML 1.0 or 1.1 name checker, needed when types such as xs:NCName are used
 * @return null if validation succeeds; return a ValidationFailure describing the validation failure
 * if validation fails. Note that the exception is returned rather than being thrown.
 * @throws UnsupportedOperationException if the type is namespace-sensitive and no namespace
 * resolver is supplied
 */

ValidationFailure validateContent(CharSequence value, NamespaceResolver nsResolver, NameChecker
nameChecker);

/**
 * Test whether this type is namespace sensitive, that is, if a namespace context is needed
 * to translate between the lexical space and the value space. This is true for types derived

```

```

* from, or containing, QNames and NOTATIONs
* @return true if the type is namespace-sensitive
*/

boolean isNamespaceSensitive();

/**
 * Determine how values of this simple type are whitespace-normalized.
 * @return one of { @link net.sf.saxon.value.Whitespace#PRESERVE}, { @link
net.sf.saxon.value.Whitespace#COLLAPSE},
 * { @link net.sf.saxon.value.Whitespace#REPLACE}.
 * @param th the type hierarchy cache. Not needed in the case of a built-in type
 */

public int getWhitespaceAction(TypeHierarchy th);
}

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```

## 1.718 Saxon-HE-9.4 9.4

## 1.719 saxon9-jdom 9.1

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Contributor(s): Integrated into Saxon by Michael Kay. Removed code to perform dynamic initialization of the boolean array, replaced it with generated static data.

\*\*\*\*\*

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Revision:

1.0 - Initial creation

## 1.720 saxon9-xpath 9.1

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Contributor(s): Integrated into Saxon by Michael Kay. Removed code to perform dynamic initialization of the boolean array, replaced it with generated static data.

\*\*\*\*\*

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February 01, 2006

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Revision:

1.0 - Initial creation

## 1.721 saxpath.jar 1.0

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 * %W% %E%  
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```

```
*
*/
```

```
package org.slf4j;
```

```
import org.slf4j.helpers.BasicMarkerFactory;
```

```
import org.slf4j.helpers.Util;
```

```
import org.slf4j.impl.StaticMarkerBinder;
```

```
/**
```

```
* MarkerFactory is a utility class producing { @link Marker } instances as
* appropriate for the logging system currently in use.
```

```
*
```

```
* <p>
```

```
* This class is essentially implemented as a wrapper around an
```

```
* { @link IMarkerFactory } instance bound at compile time.
```

```
*
```

```
* <p>
```

```
* Please note that all methods in this class are static.
```

```
*
```

```
* @author Ceki G&uuml;lc&uuml;l;
```

```
*/
```

```
public class MarkerFactory {
```

```
    static IMarkerFactory markerFactory;
```

```
    private MarkerFactory() {
```

```
    }
```

```
    static {
```

```
        try {
```

```
            markerFactory = StaticMarkerBinder.SINGLETON.getMarkerFactory();
```

```
        } catch (NoClassDefFoundError e) {
```

```
            markerFactory = new BasicMarkerFactory();
```

```
        } catch (Exception e) {
```

```
            // we should never get here
```

```
            Util.report("Unexpected failure while binding MarkerFactory", e);
```

```
        }
```

```
    }
```

```
/**
```

```
* Return a Marker instance as specified by the name parameter using the
```

```
* previously bound { @link IMarkerFactory } instance.
```

```
*
```

```

* @param name
*     The name of the {@link Marker} object to return.
* @return marker
*/
public static Marker getMarker(String name) {
    return markerFactory.getMarker(name);
}

/**
* Create a marker which is detached (even at birth) from the MarkerFactory.
*
* @param name the name of the marker
* @return a dangling marker
* @since 1.5.1
*/
public static Marker getDetachedMarker(String name) {
    return markerFactory.getDetachedMarker(name);
}

/**
* Return the {@link IMarkerFactory} instance in use.
*
* <p>The IMarkerFactory instance is usually bound with this class at
* compile time.
*
* @return the IMarkerFactory instance in use
*/
public static IMarkerFactory getIMarkerFactory() {
    return markerFactory;
}
}

```

## 1.743 slf4j-api-jdk15 1.5.5

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## 1.3

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## 3.2.10.RELEASE

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# 1.771 Spring TestContext Framework

## 3.2.10.RELEASE

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 */
```

## 1.778 spring-asm 3.0.0.RELEASE

### 1.778.1 Available under license :

Link to license in SpringSource repository broken. Opened a case with SpringSource support:

Linda Shonk (lshonk)

From: Yathiraj Udupi (yudupi)

Sent: Friday, August 06, 2010 7:14 AM

To: Yathiraj Udupi (yudupi); Linda Shonk (lshonk)

Subject: RE: Incident (case 9815) - URGENT: License files missing for Springframework modules in Springsource Enterprise Repository

Also Linda,

Just to clarify, what they mean by Spring projects is that - all `?org.springframework.XXXX?` modules, such as `org.springframework.beans`, `org.springframework.asm`, etc.

All the other third party jars distributed by springsource in the enterprise repository



are named with a prefix ?org.springframework.XXXX? for e.g. org.springframework.org.antlr ?  
and they have their own separate licenses.

Thanks,  
Yathi.

From: Yathiraj Udipi (yudupi)

Sent: Friday, August 06, 2010 7:00 AM

To: Linda Shonk (lshonk)

Subject: RE: Incident (case 9815) - URGENT: License files missing for Springframework modules in Springsource

Enterprise Repository

Hi Linda,

It should be the same Apache license for all Spring framework modules for all versions. So you should be fine. But in

the shipping XMP platform, we don't have any 3.0.1.RELEASE versions for any spring components.

message from springsource ?

?All Spring projects are licensed under the terms of the Apache License, Version 2.0. You may download the Apache License using the link below:

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For more info with regards to the Apache license:

<http://www.apache.org/licenses/>

Let me know if you have further questions.

Regards,

Lou-ann

?

2

Thanks,

Yathi.

From: Linda Shonk (lshonk)

Sent: Thursday, August 05, 2010 12:37 PM

To: Yathiraj Udipi (yudupi)

Subject: FW: Incident (case 9815) - URGENT: License files missing for Springframework modules in Springsource

Enterprise Repository

Got it okay for the 3.0.0 release. The 3.0.1 Release is also missing license information in the repository.

Linda

From: SpringSource Support [mailto:support@springsource.com]

Sent: Thursday, August 05, 2010 8:03 AM

To: Yathiraj Udipi (yudupi)

Cc: Linda Shonk (lshonk); Andrew Ballantyne (aballant)

Subject: Incident (case 9815) - URGENT: License files missing for Springframework modules in Springsource

Enterprise

Repository

Please do not reply to this email, login to [http://support.springsource.com/spring\\_account](http://support.springsource.com/spring_account) and update your incident at [http://support.springsource.com/spring\\_support\\_client\\_getIncidentById/9815](http://support.springsource.com/spring_support_client_getIncidentById/9815)

Reference # 9815

Subject: URGENT: License files missing for Springframework modules in Springsource Enterprise Repository

-----  
Product: Spring Modules  
Sub product: Other  
Severity: Development  
Date Created: 2010-08-03 21:19:19  
Last Updated: 2010-08-05 03:27:03  
Status: Pending Customer FB  
Version: 3.0.0.RELE  
Platform: Other  
CC: lshonk@cisco.com, aballant@cisco.com  
Discussion Thread  
-----

Yathiraj Udupi on 2010-08-05 15:03:27:

Thanks Lou-ann for your response.

on 2010-08-05 05:36:54:

Hi Yathiraj,

Were you able check the link to the Apache license? I am coordinating with repository admin to fix the licenses  
3

on the SpringSource repository. For the mean time, you may use the link that I sent in my last response to get the license for Spring 3.0.x

Let me know if you have further questions.

Regards,

Lou-ann

on 2010-08-04 12:00:17:

Hi Yathiraj,

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Let me know if you have further questions.

Regards,

Lou-ann

on 2010-08-04 00:14:46:

Hi Yathiraj,

I will look into this and will get back to you.

Regards,

Lou-ann

Yathiraj Udupi on 2010-08-03 21:19:19:

Hi,

We need to update the license information in our company License portal, for the Spring bundles that are shipped in Springsource dm Server 2.0, in the repository/ext folder.

This is required URGENTLY, so that we can ship our release.

When we look for the license file link from the Springsource enterprise repository, we get an error.

For example,

<http://www.springframework.com/repository/app/bundle/version/detail?name=org.springframework.asm&version=3.0.0.RELEASE>

.0.0.RELEASE

In the above link, the License hyperlink gives an error. Similarly we need the licence for all 3.0.0.RELEASE versioned Springframework module jars such as ASM, Beans, Context, Expression, JDBC, Test, Web, and others included in the repository/ext folder. All the "License" links for all of these modules throw an error like this -

```
<Error>
<Code>NoSuchKey</Code>
<Message>The specified key does not exist.</Message>
?
<Key>
ivy/bundles/release/org.springframework/org.springframework.asm/3.0.0.RELEASE/license-
3.0.0.RELEASE.txt
</Key>
<RequestId>C36AA496B452C999</RequestId>
?
<HostId>
fdPz4L7hLvTnc8Do+aiWkb2Ck1Y6yu5ela3EueZ5p1ySr5w6Gcp0FgutiZxERJSp
</HostId>
</Error>
```

Can you please provide the license files for all of the Springframework modules in the repository/ext ?

Thanks,

Yathi.

Incident update link:

login to [http://support.springsource.com/spring\\_account](http://support.springsource.com/spring_account) and update your incident at [http://support.springsource.com/spring\\_support\\_client\\_getIncidentById/9815](http://support.springsource.com/spring_support_client_getIncidentById/9815)

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## 1.779 spring-asm 3.0.0.RELEASE

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## 4.2.5.RELEASE :4.2

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# 1.830 spring-webmvc 3.0.0

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## version-0.8

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## 1.840 state\_machine 1.2.0

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Wed, 2010-03-31 14:02 administrator

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***/
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## 1.868 tftp4java-server 0.8-patch

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## 1.870 tiddlywiki 2.8

## 1.871 Tomcat 5.5.23

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# 1.876 tomcat-http 7.0.37

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  - web-app\_3\_0.xsd
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```
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```
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```

```
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## 1.885 UUID 3.2

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 *
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Version 2.1, February 1999

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Version 3, 29 June 2007

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\* L. Peter Deutsch

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BSD, like in\_cksum.c, according to wireshark-dev@, message-id:  
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\*

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## 1.896 woodstox-core-asl 4.4.1

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# 1.897 WSDL4j 1.6.2

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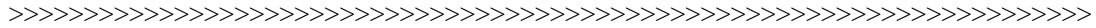
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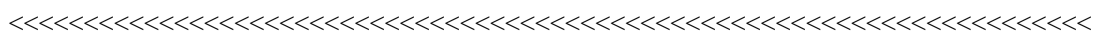
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```

```
package zipcompare;
```

```
import java.util.zip.ZipFile;
import java.util.zip.ZipEntry;
import java.util.*;
import java.io.IOException;
import java.io.InputStream;
```

```
public class ZipCompare
{
    public static void main(String[] args)
    {
        if (args.length != 2)
        {
            System.out.println("Usage: zipcompare [file1] [file2]");
            System.exit(1);
        }

        ZipFile file1;
        try { file1 = new ZipFile(args[0]); }
```



```

    catch (IOException e) { System.out.println("Could not open zip file " + args[0] + ": " + e); System.exit(1);
return; }

    ZipFile file2;
    try { file2 = new ZipFile(args[1]); }
    catch (IOException e) { System.out.println("Could not open zip file " + args[0] + ": " + e); System.exit(1);
return; }

    System.out.println("Comparing " + args[0] + " with " + args[1] + ":");

    Set set1 = new LinkedHashSet();
    for (Enumeration e = file1.entries(); e.hasMoreElements(); )
        set1.add(((ZipEntry)e.nextElement()).getName());

    Set set2 = new LinkedHashSet();
    for (Enumeration e = file2.entries(); e.hasMoreElements(); )
        set2.add(((ZipEntry)e.nextElement()).getName());

    int errcount = 0;
    int filecount = 0;
    for (Iterator i = set1.iterator(); i.hasNext(); )
    {
        String name = (String)i.next();
        if (!set2.contains(name))
        {
            System.out.println(name + " not found in " + args[1]);
            errcount += 1;
            continue;
        }
        try
        {
            set2.remove(name);
            if (!streamsEqual(file1.getInputStream(file1.getEntry(name)), file2.getInputStream(file2.getEntry(name))))
            {
                System.out.println(name + " does not match");
                errcount += 1;
                continue;
            }
        }
        catch (Exception e)
        {
            System.out.println(name + ": IO Error " + e);
            e.printStackTrace();
            errcount += 1;
            continue;
        }
        filecount += 1;
    }
}

```

```

for (Iterator i = set2.iterator(); i.hasNext(); )
{
    String name = (String)i.next();
    System.out.println(name + " not found in " + args[0]);
    errcount += 1;
}
System.out.println(filecount + " entries matched");
if (errcount > 0)
{
    System.out.println(errcount + " entries did not match");
    System.exit(1);
}
System.exit(0);
}

static boolean streamsEqual(InputStream stream1, InputStream stream2) throws IOException
{
    byte[] buf1 = new byte[4096];
    byte[] buf2 = new byte[4096];
    boolean done1 = false;
    boolean done2 = false;

    try
    {
        while (!done1)
        {
            int off1 = 0;
            int off2 = 0;

            while (off1 < buf1.length)
            {
                int count = stream1.read(buf1, off1, buf1.length - off1);
                if (count < 0)
                {
                    done1 = true;
                    break;
                }
                off1 += count;
            }
            while (off2 < buf2.length)
            {
                int count = stream2.read(buf2, off2, buf2.length - off2);
                if (count < 0)
                {
                    done2 = true;
                    break;
                }
                off2 += count;
            }
        }
    }
}

```

```

    }
    if (off1 != off2 || done1 != done2)
        return false;
    for (int i = 0; i < off1; i++)
    {
        if (buf1[i] != buf2[i])
            return false;
    }
}
return true;
}
finally { stream1.close(); stream2.close(); }
}
}

```

## 1.923 xmlbeans 2.4.0

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 */
```

```
package zipcompare;
```

```
import java.util.zip.ZipFile;
import java.util.zip.ZipEntry;
import java.util.*;
```

```

import java.io.IOException;
import java.io.InputStream;

public class ZipCompare
{
    public static void main(String[] args)
    {
        if (args.length != 2)
        {
            System.out.println("Usage: zipcompare [file1] [file2]");
            System.exit(1);
        }

        ZipFile file1;
        try { file1 = new ZipFile(args[0]); }
        catch (IOException e) { System.out.println("Could not open zip file " + args[0] + ": " + e); System.exit(1);
return; }

        ZipFile file2;
        try { file2 = new ZipFile(args[1]); }
        catch (IOException e) { System.out.println("Could not open zip file " + args[0] + ": " + e); System.exit(1);
return; }

        System.out.println("Comparing " + args[0] + " with " + args[1] + ":");

        Set set1 = new LinkedHashSet();
        for (Enumeration e = file1.entries(); e.hasMoreElements(); )
            set1.add(((ZipEntry)e.nextElement()).getName());

        Set set2 = new LinkedHashSet();
        for (Enumeration e = file2.entries(); e.hasMoreElements(); )
            set2.add(((ZipEntry)e.nextElement()).getName());

        int errcount = 0;
        int filecount = 0;
        for (Iterator i = set1.iterator(); i.hasNext(); )
        {
            String name = (String)i.next();
            if (!set2.contains(name))
            {
                System.out.println(name + " not found in " + args[1]);
                errcount += 1;
                continue;
            }
            try
            {
                set2.remove(name);
                if (!StreamsEqual(file1.getInputStream(file1.getEntry(name)), file2.getInputStream(file2.getEntry(name))))

```



```

        {
            System.out.println(name + " does not match");
            errcount += 1;
            continue;
        }
    }
    catch (Exception e)
    {
        System.out.println(name + ": IO Error " + e);
        e.printStackTrace();
        errcount += 1;
        continue;
    }
    filecount += 1;
}
for (Iterator i = set2.iterator(); i.hasNext(); )
{
    String name = (String)i.next();
    System.out.println(name + " not found in " + args[0]);
    errcount += 1;
}
System.out.println(filecount + " entries matched");
if (errcount > 0)
{
    System.out.println(errcount + " entries did not match");
    System.exit(1);
}
System.exit(0);
}

static boolean streamsEqual(InputStream stream1, InputStream stream2) throws IOException
{
    byte[] buf1 = new byte[4096];
    byte[] buf2 = new byte[4096];
    boolean done1 = false;
    boolean done2 = false;

    try
    {
        while (!done1)
        {
            int off1 = 0;
            int off2 = 0;

            while (off1 < buf1.length)
            {
                int count = stream1.read(buf1, off1, buf1.length - off1);
                if (count < 0)

```

```

    {
        done1 = true;
        break;
    }
    off1 += count;
}
while (off2 < buf2.length)
{
    int count = stream2.read(buf2, off2, buf2.length - off2);
    if (count < 0)
    {
        done2 = true;
        break;
    }
    off2 += count;
}
if (off1 != off2 || done1 != done2)
    return false;
for (int i = 0; i < off1; i++)
{
    if (buf1[i] != buf2[i])
        return false;
}
}
return true;
}
finally { stream1.close(); stream2.close(); }
}
}

```

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## 1.926 xmlParserAPIs (Xerces-J) 2.6.2

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\*\*\*\*

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## 1.932 xom 1.0

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## 1.933 xorg-x11-xinit\_scripts 1.0.9 :14.el6

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## 1.935 xstream-1.4.4 1.4.4

# 1.936 xz 4.999.9 :0.5.beta.20091007git.el6

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## 1.937 yecht 1.0

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