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The product also uses the Linux operating system, RedHat Enterprise Linux 6.7 Server 6.7. Information on this distribution is available at https://www.redhat.com/en/technologies/linux-platforms/enterprise-linux. The full source code for this distribution, including copyright and license information, is available on request from opensource-requests@external.cisco.com. Mention that you would like the Linux distribution source archive, and quote the following reference number for this distribution: 113928642-199827583.

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2001-12-12

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-- activemq-web
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2001-12-12

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== For the xstream library  
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-- activemq-web

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--activemq-web-demo

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--activemq-web-console

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--- activemq-web

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*/
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-- activemq-web

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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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David Megginson, david@megginson.com
2000-05-05

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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:

- BinaryCodec: Encodes and decodes binary to and from Strings of 0s and 1s.
  Issue: 27813. Thanks to Alex Karasulu.
- 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.

- BCodec: Identical to the Base64 encoding defined by RFC 1521 and allows a character set to be specified. Issue: 26617. Thanks to Oleg Kalnichevski.
- 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.

Fixed bugs:

- The default URL encoding logic was broken. Issue: 25995. Thanks to Oleg Kalnichevski.
- Base64 chunked encoding not compliant with RFC 2045 section 2.1 CRLF. Issue: 27781. Thanks to Gary D. Gregory.
- Hex converts illegal characters to 255. Issue: 28455.
- 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.
- Added missing tags in Javadoc comments.
- General Javadoc improvements.

Changes:

- This version is released under the Apache License 2.0, please see LICENSE.txt. Previous versions were released under the Apache License 1.1.
- 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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* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:
  Mike Belshe (mbelshe@netscape.com)
  Michael Campanella (campanella@stevms.enet.dec.com)

/*

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The snowball stemmers in
contrib/analyzers/common/src/java/net/sf/snowball
were developed by Martin Porter and Richard Boulton.
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contrib/analyzers/common/src/resources/org/apache/lucene/analysis/snowball
were developed by Martin Porter and Richard Boulton.
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The Arabic, Persian, Romanian, Bulgarian, and Hindi analyzers (common) come with a default
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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

The German, Spanish, Finnish, Hungarian, Italian, Portuguese, Russian and Swedish light stemmers
(common) are based on BSD-licensed reference implementations created by Jacques Savoy and
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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/es/SpanishMinimalStemmer.java
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The class org.apache.lucene.SorterTemplate was inspired by CGLIB's class with
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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.
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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:
- contrib/analyzers/common/src/resources/org/apache/lucene/analysis/ar/stopwords.txt,
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- contrib/analyzers/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,
- contrib/analyzers/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
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- contrib/analyzers/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
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- contrib/analyzers/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
- contrib/analyzers/common/src/java/org/apache/lucene/analysis/es/SpanishMinimalStemmer.java
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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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 */
```

1.78 ASM Util 4.0

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```
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*/

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1.80 AspectJ runtime 1.6.1

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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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*     PARC     initial implementation
* *******************************************************************/

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

import org.aspectj.org.eclipse.jdt.internal.compiler.ATSTVisitor;
//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.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;
//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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 */
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>
 * 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>
 * byte BYTE
 * short SHORT
 * char CHAR
 * int INT
 * long LONG
 * float FLOAT
 * double DOUBLE
 * boolean BOOLEAN
 */

public static class Code {

/**
 * The name of the type.
 */
private String name;

/**
 * Creates a new primitive type code with the given name.
 */
public Code(String name) {
    this.name = name;
}

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

/**
 * 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");

/**
 * 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_DESCRIPTORS;

/**
 * A list of property descriptors (element type: [ @link StructuralPropertyDescriptor ]),
 * or null if uninitialized.
 * @since 3.10
 */
private static final List PROPERTY_DESCRIPTORS_8_0;
static {
    List propertyList = new ArrayList(2);
    createPropertyList(PrimitiveType.class, propertyList);
    addProperty(PRIMITIVE_TYPE_CODE_PROPERTY, propertyList);
    PROPERTY_DESCRIPTORS = reapPropertyList(propertyList);

    propertyList = new ArrayList(3);
    createPropertyList(PrimitiveType.class, propertyList);
    addProperty(ANNOTATIONS_PROPERTY, propertyList);
    addProperty(PRIMITIVE_TYPE_CODE_PROPERTY, propertyList);
    PROPERTY_DESCRIPTORS_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_DESCRIPTORS;
  default :
    return PROPERTY_DESCRIPTORS_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 == ANNOTATIONSPROPERTY) {
        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);
}
int memSize() {
    // treat Code as free
    return BASE_NODE_SIZE + 2 * 4;
}

int treeSize() {
    return memSize()
            + (this.annotations == null ? 0 : this.annotations.listSize());
}

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);

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

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

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

/**
 * 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 getIdentifier();
        } else {
            setIdentifier((String) value);
            return null;
        }
    } else {
        setIdentifier((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 <code>isConstructor</code> is <code>false</code>.</li>
 * <li>The variable name in any type of <code>VariableDeclaration</code>
 *     node.</li>
 * <li>The enum type name in a <code>EnumDeclaration</code> node.</li>
 * <li>The enum constant name in an <code>EnumConstantDeclaration</code>
 *     node.</li>
 * <li>The variable name in an <code>EnhancedForStatement</code></li>
 * <li>The type variable name in a <code>TypeParameter</code>
 *     node.</li>
 * <li>The type name in an <code>AnnotationTypeDeclaration</code> node.</li>
 * <li>The member name in an <code>AnnotationTypeMemberDeclaration</code>
 *     node.</li>
 * </ul>
 * 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 <code>false</code> if this node is unparented.
 * *
 * @return <code>true</code> if this node declares a name, and
 *    <code>false</code> 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();
}
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
 * <code>SingleVariableDeclaration</code>, the modifiers property is <code>int.class</code>
 */
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 valueTypeName the value type of this property
 */

//
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.
 * @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 null if it is mandatory.
 * @return true if the property is mandatory,
 * and false if it is may be null
 */
public boolean isMandatory() {
    return this.mandatory;
}

*******************************************************************************
* Copyright (c) 2000, 2013 IBM Corporation and others.
* 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
* Contributors:
* IBM Corporation - initial API and implementation
*******************************************************************************
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>
 * This kind of node is used to convert a name (@link Name) into a type
 * (@link Type) by wrapping it.
 * </p>
 * @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);
//SNON-NLS-1S

/**
 * A list of property descriptors (element type: @link StructuralPropertyDescriptor),
 * or null if uninitialized.
 */
private static final List PROPERTY_DESCRIPTORS;
/**
 * A list of property descriptors (element type:
 * @link StructuralPropertyDescriptor),
 * or null if uninitialized.
 * @since 3.10
 */
private static final List PROPERTY_DESCRIPTORS_8_0;

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

    propertyList = new ArrayList(3);
    createPropertyList(SimpleType.class, propertyList);
    addProperty(ANNOTATIONS_PROPERTY, propertyList);
    addProperty(NAME_PROPERTY, propertyList);
    PROPERTY_DESCRIPTORS_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_DESCRIPTORS;
    default :
        return PROPERTY_DESCRIPTORS_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 getNodeType0() {
return SIMPLE_TYPE;
}

/* (omit javadoc for this method)
 * Method declared on ASTNode.
 */
ASTNode clone0(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 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);
}
acceptChild(visitor, getName());
/**
 * 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());
}

/*******************************************************************************
 * Copyright (c) 2005, 2013 IBM Corporation and others.
 * 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
 *
 * 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;

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.aspectj.org.eclipse.jdt.jface.text坏LocationException;
import org.eclipse.equinox.text.idocument;
import org.eclipse.equinox.osgi.util.NLS;
import org.eclipse.equinox.text.idocument;
/**
 */

<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";$/SNON-NLS-1$

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
 * @param binding
 *            the object to be inserted into the message
 * @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});
}
* @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);
}
* 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 */
    }
}
}

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, ARGVerbose }
));
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 e) {
}
return null;
}
} 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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*******************************************************************************/

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}.
 *
 * 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.
 *
 * */

import org.eclipse.equinox.app.IApplication;
import org.eclipse.equinox.app.IApplicationContext;
import org.eclipse.osgi.util.NLS;
@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;
        } else if (index == argCount) {
            displayError(Messages.bind(Messages.CommandLineOutputTakesArgs));
            return false;
        }
        this.indexFile = argsArray[index++];
        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
}

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1.85 aspectjrt 1.6.5

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1.86 aspectjrt 1.8.4
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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.

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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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.

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"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.

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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.)

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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.

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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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:

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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.

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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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.

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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.

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6. As an exception to the Sections above, you may also combine or
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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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```
@c Local Variables:
c ispell-local-pdict: "ispell-dict"
c End:
```

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>)
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   id AA16031; Thu, 25 May 95 11:18:23 CDT
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Message-Id: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>
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. :-)

John DuBois

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:

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

John
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

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).

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@c End:

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From specedt@armory.com Wed May 10 10:21:11 1995
Flags: 10
Return-Path: specedt@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-2.1-1.ins)
  id KAA22876; Wed, 10 May 1995 10:21:10 -0400 (from specedt@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 specedt@armory.com for <chet@po.cwru.edu>)
From: John DuBois <specedt@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/~specedt/
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-2.1-1.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
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

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

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

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

John

(Too late to actually discuss the thing, at least for this edition).

--------
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

```
```

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 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: <9505251519.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 spcecdt@armory.com Wed May 10 10:21:11 1995
Flags: 10
Return-Path: spcecdt@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 spcecdt@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 spcecdt@armory.com for <chet@po.cwru.edu>)
From: John DuBois <spcecdt@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/~spcecdt/
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
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

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
>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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2000-05-05
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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

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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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*/
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.imageWritableRaster;

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 <code>RenderedImage</code>
 * interface. Only the <code>getTile()</code> method needs to be
 * implemented by subclasses. The instance variables must also be
 * filled in properly.
 *
 * <p> Normally in JAI <code>PlanarImage</code> is used for this
 * purpose, but in the interest of modularity the
 * use of <code>PlanarImage</code> has been avoided.
 */
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.
*\*/

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.
 * @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]);
        }
    }
    return names.toArray(new String[names.size()]);
}
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 -= tileGridXOffset;
    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,}
/**
 * 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.
 */
This class is not a committed part of the JAI API. It may be removed or changed in future releases of JAI.

@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 <code>ImageDecoder</code> interface
 * useful for subclassing.
 */
@version $Id: ImageDecoderImpl.java 498740 2007-01-22 18:35:57Z dvholten $
public abstract class ImageDecoderImpl implements ImageDecoder {

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

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

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

/**
 * Constructs an <code>ImageDecoderImpl</code> with a given
 * <code>InputStream</code> and <code>ImageDecodeParam</code>
 * instance. The <code>input</code> parameter will be used to
 * construct a <code>ForwardSeekableStream</code>; if the ability
 * to seek backwards is required, the caller should construct
 * an instance of <code>SeekableStream</code> 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
 * <code>ImageDecodeParam</code> interface. Concrete
 * implementations of this interface will return corresponding
 * concrete implementations of the <code>ImageDecodeParam</code>
 * interface. For example, a <code>JPEGImageDecoder</code> will
 * return an instance of <code>JPEGDecodeParam</code>.
 */
public ImageDecodeParam getParam() {
    return param;
}

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

/**
 * Returns the <code>SeekableStream</code> associated with
 * this <code>ImageDecoder</code>.
 */
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 <code>Raster</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 Raster decodeAsRaster() throws IOException {
    return decodeAsRaster(0);
}

/**
 * Returns a <code>Raster</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.
*(firstName)
*
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.
*(firstName)
*/
public abstract RenderedImage decodeAsRenderedImage(int page)
    throws IOException;
}

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go-previous.png
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
The following files are from the Pasodoble Icon Theme
(http://www.jesusda.com/projects/pasodoble/):

<table>
<thead>
<tr>
<th>File</th>
<th>Original filename</th>
</tr>
</thead>
<tbody>
<tr>
<td>zoom-in.png</td>
<td>viewmag+.png</td>
</tr>
<tr>
<td>zoom-out.png</td>
<td>viewmag-.png</td>
</tr>
</tbody>
</table>

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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

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org.mozilla.javascript.tools.debugger.downloaded.TreeTableModel.java
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<th>File</th>
<th>Original filename</th>
</tr>
</thead>
<tbody>
<tr>
<td>zoom-in.png</td>
<td>viewmag+.png</td>
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1.149 bcpkix-jdk15on 1.50
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1.151 bcprov-jdk15 140

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1.152 bcprov-jdk16 144

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*/

```
public class LICENSE {

    public static String licenseText =
        "Copyright (c) 2000-2008 The Legion Of The Bouncy Castle (http://www.bouncycastle.org) "
        + System.getProperty("line.separator")
        + System.getProperty("line.separator")
        + "Permission is hereby granted, free of charge, to any person obtaining a copy of this software "
        + System.getProperty("line.separator")
        + "and associated documentation files (the "Software"), to deal in the Software without restriction, "
        + System.getProperty("line.separator")
        + "including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, "
        + System.getProperty("line.separator")
        + "and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so,"
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        + System.getProperty("line.separator")
        + "OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER"
        + System.getProperty("line.separator")
        + " DEALINGS IN THE SOFTWARE.";
```
public static void main(
    String[] args)
{
    System.out.println(licenseText);
}

1.153 Bean Validation API 1.0.0.GA
1.153.1 Available under license :
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    <xsl:param name="text"/>
    <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
    
    <xsl:value-of select="substring-after($text, '&#10;')"/>
    <xsl:if test="translate($rest, '&#9;&#32;', '')">
      <xsl:call-template name="isc.copyright.format">
        <xsl:with-param name="text" select="$rest"/>
      </xsl:call-template>
    </xsl:if>
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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 3a0982da308228d796df35f98d787c5c7f2bb5b6.

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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* configure.ac, Makefile.am: The original versions were derived from the
one's 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 form 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.

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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.

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* 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.

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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 form the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5cf2bb5b6.

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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* 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>
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They were later adapted to be part of Boost.Process and, during that 
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Author: Julio Merino <jmmv84@gmail.com>

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The development of Dynamically Loadable Zones (DLZ) for Bind 9 was conceived and contributed by Rob Butler.

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

* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5bff2bb56.

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* 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.

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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 form the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5ccf2bb5b6.

  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>

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The development of Dynamically Loadable Zones (DLZ) for Bind 9 was conceived and contributed by Rob Butler.

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* configure.ac, Makefile.am: The original versions were derived from the
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Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-cui.c: The format_paragraph and format_text functions were
derived form the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5cfe2bb5b6.

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
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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 form 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.

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

* atf-c/ui.c: The format_paragraph and format_text functions were
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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.

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vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform" version="1.0">
  <xsl:template name="isc.copyright.format">
    <xsl:param name="text"/>
    <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
    <xsl:text>&#10;</xsl:text>
    <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
    <xsl:if test="translate($rest, '&#9;&#32;', '')">
      <xsl:call-template name="isc.copyright.format">
        <xsl:with-param name="text" select="$rest"/>
      </xsl:call-template>
    </xsl:if>
  </xsl:template>
</xsl:stylesheet>
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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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The development of Dynamically Loadable Zones (DLZ) for Bind 9 was conceived and contributed by Rob Butler.

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* configure.ac, Makefile.am: The original versions were derived from the
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  Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were
derived form the ones in the Monotone project, revision
3a0f982da308228d796df35f98d787c5c7f2bb5b6.
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.

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* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5c6f2bb5b6.

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* 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.

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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 3a0982da308228d796df35f98d787c5cffe2bb5b6.

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>

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++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.
The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon
University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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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
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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.

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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.

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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facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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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.

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We call this license the \texttt{Lesser} General Public License because it does \texttt{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.

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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.)
@end enumerate

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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1.211 castor-xml 1.3.1

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1.224 com.cisco.xmp.osgi.bsf 2.3.0

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b) Use a suitable shared library mechanism for linking with the
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copy of the library already present on the user's computer system,
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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.

one line to give the program’s name and an idea of what it does.
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1.240 com.cisco.xmp.osgi.mondrian 1.0

1.240.1 Available under license :

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   //
   // jhyde, May 10, 2002
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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to
permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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, while the latter only works together with the library.

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1.241 com.cisco.xmp.osgi.pager-taglib 2.0

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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 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.

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1.273 com.springsource.jline 0.9.94

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1.274 com.springsource.junit 3.8.2

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1.275 com.springsource.jxl 2.6.6

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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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1.396 commons-jelly-tags-interaction-1.0 1.1

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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.

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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.

^L

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"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.

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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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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.

e) Verify that the user has already received a copy of these
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Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice
That's all there is to it!
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
collections 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(ace@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.)

BSD on the PA already has ANSI include files which are C++ compatible.

```bash
STMP_FIXPROTO=
# Exactly the same as t-mips, except we must define SYSTEM_HEADER_DIR
# to point to the bsd43 include files.
SYSTEM_HEADER_DIR = /bsd43/usr/include
# Exactly the same as t-mips-gas, except we must define SYSTEM_HEADER_DIR
# to point to the bsd43 include files.
SYSTEM_HEADER_DIR = /bsd43/usr/include
```

1.422 coreutils 8.22-21.el7

1.422.1 Available under license:

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Version 3, 29 June 2007

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<one line to give the program's name and a brief idea of what it does.>
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1.424 cpp 4.8.5 :28.el7_5.1

1.424.1 Available under license:

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Version 3, 29 June 2007

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Version 2.1, February 1999

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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.

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If distribution of object code is made by offering access to copy
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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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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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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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**GCC RUNTIME LIBRARY EXCEPTION**

Version 3.1, 31 March 2009

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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.

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<td>lib/interception/mach_override</td>
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/* Definitions for BSD assembler syntax for Intel 386
   (actually AT&T syntax for insns and operands,
   adapted to BSD conventions for symbol names and debugging.)
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/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using
underscores, we are using prefix `.'s to identify labels that should
be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t" /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line that says to advance the location counter by SIZE bytes. */

#define ASM_OUTPUT_SKIP(FILE, SIZE) 
fprintf (FILE, "\t.space HOST_WIDE_INT_PRINT_UNSIGNED\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED) 
(f fputs (".comm ", (FILE)),
 assemble_name ((FILE), (NAME)),
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED) 
(f fputs (".lcomm ", (FILE)),
 assemble_name ((FILE), (NAME)),
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT) 
(f fputs (".lcomm ", (FILE)),
 assemble_name ((FILE), (NAME)),
 fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line that says to advance the location counter to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE, LOG) 
if ((LOG)!=0) fprintf ((FILE), "\t.align %d\n", (LOG))

/* This is how to store into the string BUF the symbol_ref name of an internal numbered label where PREFIX is the class of label and NUM is the number within the class. This is suitable for output with `assemble_name'. */
#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)\    sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */
#define USER_LABEL_PREFIX "_"

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

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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(agt@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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#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
# import os
# import re
# import sys
# import time
# import subprocess

class Errors:
    def __init__(self):
        self.num_errors = 0

    def report(self, filename, string):
        if filename:
            string = filename + ': ' + string
        sys.stderr.write(string + '
')
        self.num_errors += 1

    def ok(self):
        return self.num_errors == 0

class GenericFilter:
    def __init__(self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set(['
            # Skip licence files.
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
            'COPYING3.LIB',
            'LICENSE',
            'fdl.texi',
            'gpl_v3.texi',
            'fdl-1.3.xml',
            'gpl-3.0.xml',

            # Skip auto- and libtool-related files
            'aclocal.m4',
            'compile',
            'config.guess',
            'config.sub',
            'depcomp',
            'install-sh',
            'libtool.m4',
            'ltmain.sh',
            'ltoptions.m4',
            'ltversion.m4',
            'lt~obsolete.m4',
            'missing',
        ])}
'mkdep',
'mkinstalldirs',
'move-if-change',
'shlibpath.m4',
'symlink-tree',
'ylwrap',

# Skip FSF mission statement, etc.
'gnu.texi',
'funding.texi',
'appendix_free.xml',

# Skip imported texinfo files.
'texinfo.tex',
)


def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile ('\t')

    return None

def skip_file (self, dir, filename):
    if filename in self.skip_files:
        return True

    (base, extension) = os.path.splitext (os.path.join (dir, filename))
    if extension in self.skip_extensions:
        return True

    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists (base + '.am'):
            return True

    # Skip files produced by autogen
    if (os.path.exists (base + '.def')
        and os.path.exists (base + '.tpl')):
        return True

    # Skip configure files produced by autoconf
    if filename == 'configure':
        if os.path.exists (base + '.ac'):
            return True

        if os.path.exists (base + '.in'):
            return True
return False

def skip_dir(self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file(self, dir, filename):
    if filename in self.fossilised_files:
        return True
    # Only touch current current ChangeLogs.
    if filename != 'ChangeLog' and filename.find('ChangeLog') >= 0:
        return True
    return False

def by_package_author(self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__(self, errors):
        self.errors = errors

        # Characters in a range of years. Include '.' for typos.
        ranges = '[0-9]?([-0-9.\s]s+\|s+)*[0-9]'

        # Non-whitespace characters in a copyright holder's name.
        name = '\w...\

        # Matches one year.
        self.year_re = re.compile('^[0-9]+$')

        # Matches part of a year or copyright holder.
        self.continuation_re = re.compile(ranges + '|\w')

        # Matches a full copyright notice:
        self.copyright_re = re.compile(
            '# 1: 'Copyright (C)', etc.
            '^[Cc]op\(y\)\(r\)'\n            '^[Cc]opyright\s+\(\[Cc]\)'\n            '^[Cc]opyright\s+%s'\n            '^[Cc]opyright\s+\&c\opy;'\n            '^[Cc]opyright\s+@copyright\{\}'\n            '@set\s+\copyright[\w-]+\')

        # 2: the years. Include the whitespace in the year, so that
        # we can remove any excess.
        '\s*(?::\s+\s+\s+\s+\s+)'\n        '@value\{[^\{}]*\}\s*'
# 3: 'by', if used
'(by\s+)?'

# 4: the copyright holder. Don't allow multiple consecutive spaces, so that right-margin gloss doesn't get caught
# (e.g. gnat_ugn.texi).
'(' + name + '(?:\s?+name + +')*')?

# A regexp for notices that might have slipped by. Just matching 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of # HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile('copyright.*[0-9][0-9]',
                                     re.IGNORECASE)
self.comment_re = re.compile('#+|[*]+|;+|%+|//+|@c |dnl ')
self.holders = { '@copying': '@copying' }
self.holder_prefixes = set()

# True to 'quilt add' files before changing them.
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be ',', '.
self.separator = ', '

def add_package_author (self, holder, canon_form = None):
    if not canon_form:
        canon_form = holder
    self.holders[holder] = canon_form
    index = holder.find (' ')
    while index >= 0:
        self.holder_prefixes.add (holder[:index])
        index = holder.find (' ', index + 1)

def add_external_author (self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__ (self, year):
        self.year = year

    def __str__ (self):
        return 'unrecognised year: ' + self.year

def parse_year (self, string):
    year = int (string)
    if len (string) == 2:
if year > 70:
    return year + 1900
elif len (string) == 4:
    return year
raise self.BadYear (string)

def year_range (self, years):
    year_list = [self.parse_year (year)
                 for year in self.year_re.findall (years)]
    assert len (year_list) > 0
    return (min (year_list), max (year_list))

def set_use_quilt (self, use_quilt):
    self.use_quilt = use_quilt

def include_year (self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years (self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith ('@value'):
        return years
    (min_year, max_year) = self.year_range (years)
    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file (dir, filename):
        max_year = max (max_year, self.max_year)
    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)

def strip_continuation (self, line):
    line = line.lstrip()
    match = self.comment_re.match (line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete (self, match):
    holder = match.group (4)
    return (holder
            and (holder not in self.holder_prefixes
                 or holder in self.holders))
def update_copyright(self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join(dir, filename)

    intro = match.group(1)
    if intro.startswith('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end(2):].strip()
        if after_years != '':
            self.errors.report(pathname,
                'trailing characters in @set: ' + after_years)
            return (False, orig_line, next_line)
    else:
        # If it looks like the copyright is incomplete, add the next line.
        while not self.is_complete(match):
            try:
                next_line = file.next()
            except StopIteration:
                break
            # If the next line doesn't look like a proper continuation,
            # assume that what we've got is complete.
            continuation = self.strip_continuation(next_line)
            if not self.continuation_re.match(continuation):
                break
            # Merge the lines for matching purposes.
            orig_line += next_line
            line = line.rstrip() + ' ' + continuation
            next_line = None

        # Rematch with the longer line, at the original position.
        match = self.copyright_re.match(line, match.start())
        assert match
        holder = match.group(4)

        # Use the filter to test cases where markup is getting in the way.
        if filter.by_package_author(dir, filename):
            assert holder not in self.holders
        elif not holder:
            self.errors.report(pathname, 'missing copyright holder')
            return (False, orig_line, next_line)
        else:
            return (True, orig_line, next_line)
elif holder not in self.holders:
    self.errors.report (pathname,
                      'unrecognised copyright holder: ' + holder)
    return (False, orig_line, next_line)

else:
    # See whether the copyright is associated with the package
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start (4)]
            + canon_form
            + line[match.end (4):])

    # Remove any 'by'
    line = line[:match.start (3)] + line[match.end (3):]

    # Update the copyright years.
    years = match.group (2).strip()
    try:
        canon_form = self.canonicalise_years (dir, filename, filter, years)
    except self.BadYear as e:
        self.errors.report (pathname, str (e))
        return (False, orig_line, next_line)

    line = (line[:match.start (2)]
            + ' ' + canon_form + self.separator
            + line[match.end (2):])

    # Use the standard (C) form.
    if intro.endswith ('right'):
        intro += ' (C)
    elif intro.endswith ('(c)'):
        intro = intro[:-3] + '(C)
    line = line[:match.start (1)] + intro + line[match.end (1):]

    # Strip trailing whitespace
    line = line.rstrip() + 'n'

    return (line != orig_line, line, next_line)

def process_file (self, dir, filename, filter):
    pathname = os.path.join (dir, filename)
    if filename.endswith ('.tmp'):
        # Looks like something we tried to create before.
try:
    os.remove (pathname)
except OSError:
    pass
return

lines = []
changed = False
line_filter = filter.get_line_filter (dir, filename)
with open (pathname, 'r') as file:
    prev = None
    for line in file:
        while line:
            next_line = None
            # Leave filtered-out lines alone.
            if not (line_filter and line_filter.match (line)):
                match = self.copyright_re.search (line)
                if match:
                    res = self.update_copyright (dir, filename, filter,
                                             file, line, match)
                    (this_changed, line, next_line) = res
                    changed = changed or this_changed
                    # Check for copyright lines that might have slipped by.
                    elif self.other_copyright_re.search (line):
                        self.errors.report (pathname,
                                             'unrecognised copyright: %s'
                                             % line.strip())
                        lines.append (line)
                        line = next_line
            # If something changed, write the new file out.
            if changed and self.errors.ok():
                tmp_pathname = pathname + '.tmp'
                with open (tmp_pathname, 'w') as file:
                    for line in lines:
                        file.write (line)
                if self.use_quilt:
                    subprocess.call (["quilt", 'add', pathname])
                os.rename (tmp_pathname, pathname)

def process_tree (self, tree, filter):
    for (dir, subdirs, filenames) in os.walk (tree):
        # Don't recurse through directories that should be skipped.
        for i in xrange (len (subdirs) - 1, -1, -1):
            if filter.skip_dir (dir, subdirs[i]):
                del subdirs[i]
# Handle the files in this directory.
for filename in filenames:
    if filter.skip_file (dir, filename):
        sys.stdout.write ('Skipping %s
% os.path.join (dir, filename))
    else:
        self.process_file (dir, filename, filter)

class CmdLine:
    def __init__ (self, copyright = Copyright):
        self.errors = Errors()
        self.copyright = copyright (self.errors)
        self.dirs = []
        self.default_dirs = []
        self.chosen_dirs = []
        self.option_handlers = dict()
        self.option_help = []

        self.add_option ('--help', 'Print this help', self.o_help)
        self.add_option ('--quilt', '"quilt add" files before changing them',
                        self.o_quilt)
        self.add_option ('--this-year', 'Add the current year to every notice',
                        self.o_this_year)

    def add_option (self, name, help, handler):
        self.option_help.append ((name, help))
        self.option_handlers[name] = handler

    def add_dir (self, dir, filter = GenericFilter()):
        self.dirs.append ((dir, filter))

    def o_help (self, option = None):
        sys.stdout.write ('Usage: %s [options] dir1 dir2\n
Options:
' % sys.argv[0])
        format = '%-15s %s
'
        for (what, help) in self.option_help:
            sys.stdout.write (format % (what, help))
        sys.stdout.write ('
Directories:
')
        format = '%-25s'
        i = 0
        for (dir, filter) in self.dirs:
            i += 1
            if i % 3 == 0 or i == len (self.dirs):
                sys.stdout.write (dir + '\n')
            else:
                sys.stdout.write (format % dir)
        sys.exit (0)
def o_quilt (self, option):
    self.copyright.set_use_quilt (True)

def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]:
        if arg[1] != '-':
            self.chosen_dirs.append (arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg] (arg)
        else:
            self.errors.report (None, 'unrecognised option: ' + arg)
    if self.errors.ok():
        if len (self.chosen_dirs) == 0:
            self.chosen_dirs = self.default_dirs
        if len (self.chosen_dirs) == 0:
            self.o_help()
        else:
            for chosen_dir in self.chosen_dirs:
                canon_dir = os.path.join (chosen_dir, '')
                count = 0
                for (dir, filter) in self.dirs:
                    if (dir + os.sep).startswith (canon_dir):
                        count += 1
                        self.copyright.process_tree (dir, filter)
                if count == 0:
                    self.errors.report (None, 'unrecognised directory: ' + chosen_dir)
            sys.exit (0 if self.errors.ok() else 1)

#...............................................................................

class TopLevelFilter (GenericFilter):
    def skip_dir (self, dir, subdir):
        return True

class ConfigFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

    def skip_file (self, dir, filename):
        if filename.endswith ('.m4'):
            pathname = os.path.join (dir, filename)
            with open (pathname) as file:
                # Skip files imported from gettext.
if file.readline().find('gettext-') >= 0:
    return True
return GenericFilter.skip_file(self, dir, filename)

class GCCFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_files |= set([
            # Not part of GCC
            'math-68881.h',
        ])

        self.skip_dirs |= set([
            # Better not create a merge nightmare for the GNAT folks.
            'ada',

            # Handled separately.
            'testsuite',
        ])

        self.skip_extensions |= set([
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ])

        self.fossilised_files |= set([
            # Old news won't be updated.
            'ONEWS',
        ])

class TestsuiteFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_extensions |= set([
            # Don't change the tests, which could be woend by anyone.
            '.c',
            '.C',
            '.cc',
            '.h',
            '.hs',
            '.f',
            '.f90',
            '.go',
        ])

Open Source Used In PL 3.5.1 3.5.1
`.inc`,
`.java`,
})

def skip_file(self, dir, filename):
    # g++.niklas/README contains historical copyright information
    # and isn't updated.
    if filename == 'README' and os.path.basename(dir) == 'g++.niklas':
        return True
    return GenericFilter.skip_file(self, dir, filename)

class LibCppFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_extensions |= set([
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ])

class LibGCCFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set([
            # Imported from GLIBC.
            'soft-fp',
        ])

class LibJavaFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set([
            # Handled separately.
            'testsuite',

            # Not really part of the library
            'contrib',

            # Imported from upstream
            'classpath',
            'libltdl',
        ])}
def get_line_filter (self, dir, filename):
    if filename == 'NameDecoder.h':
        return re.compile ('.*NAME_COPYRIGHT')
    if filename == 'ICC_Profile.h':
        return re.compile ('.*icSigCopyrightTag')
    return GenericFilter.get_line_filter (self, dir, filename)

class LibMudflapFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set (
            
            # Handled separately.
            'testsuite',
            )

class LibStdCxxFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set (
            
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
            )

        self.skip_dirs |= set (
            
            # Contains automatically-generated sources.
            'html',

            # The testsuite data files shouldn't be changed.
            'data',

            # Contains imported images
            'images',
            )

        self.own_files |= set (
            
            # Contains markup around the copyright owner.
            'spine.xml',
            )

    def get_line_filter (self, dir, filename):
        if filename == 'boost_concept_check.h':
            return re.compile ('// (C) Copyright Jeremy Siek')
        return GenericFilter.get_line_filter (self, dir, filename)

class GCCCopyright (Copyright):
    def __init__ (self, errors):


```

Copyright.__init__(self, errors)

canon_fsf = 'Free Software Foundation, Inc.'
self.add_package_author('Free Software Foundation', canon_fsf)
self.add_package_author('Free Software Foundation', canon_fsf)
self.add_package_author('Free Software Foundation Inc.', canon_fsf)
self.add_package_author('Free Software Foundation, Inc', canon_fsf)
self.add_package_author('Free Software Foundation, Inc.', canon_fsf)
self.add_package_author('The Free Software Foundation', canon_fsf)
self.add_package_author('The Free Software Foundation, Inc.', canon_fsf)
self.add_package_author('Software Foundation, Inc.', canon_fsf)

self.add_external_author('ARM')
self.add_external_author('AdaCore')
self.add_external_author('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
self.add_external_author('Cavium Networks.')
self.add_external_author('Faraday Technology Corp.')
self.add_external_author('Florida State University')
self.add_external_author('Greg Colvin and Beman Dawes.')
self.add_external_author('Hewlett-Packard Company')
self.add_external_author('Information Technology Industry Council.')
self.add_external_author('James Theiler, Brian Gough')
self.add_external_author('Makoto Matsumoto and Takuji Nishimura.')
self.add_external_author('National Research Council of Canada.')
self.add_external_author('Peter Dimov and Multi Media Ltd.')
self.add_external_author('Peter Dimov')
self.add_external_author('Pipeline Associates, Inc.')
self.add_external_author('Regents of the University of California.')
self.add_external_author('Silicon Graphics Computer Systems, Inc.')
self.add_external_author('Silicon Graphics')
self.add_external_author('Stephen L. Moshier')
self.add_external_author('Sun Microsystems, Inc. All rights reserved.')
self.add_external_author('The Go Authors. All rights reserved.')
self.add_external_author('The Regents of the University of California.')
self.add_external_author('Unicode, Inc.')
self.add_external_author('University of Toronto.')

class GCCCmdLine (CmdLine):
    def __init__(self):
        CmdLine.__init__(self, GCCCopyright)

        self.add_dir('..', TopLevelFilter())
        # boehm-gc is imported from upstream.
        self.add_dir('config', ConfigFilter())
        # contrib isn't really part of GCC.
        self.add_dir('fixincludes')
```
self.add_dir ('gcc', GCCFilter())
self.add_dir (os.path.join ('gcc', 'testsuite'), TestsuiteFilter())
self.add_dir ('gnattools')
self.add_dir ('include')
self.add_dir ('libada')
self.add_dir ('libatomic')
self.add_dir ('libbacktrace')
self.add_dir ('libcpp', LibCppFilter())
self.add_dir ('libdecnumber')
# libffi is imported from upstream.
self.add_dir ('libgcc', LibGCCFilter())
self.add_dir ('libgfortran')
self.add_dir ('libgomp')
self.add_dir ('libiberty')
self.add_dir ('libitm')
self.add_dir ('libjava', LibJavaFilter())
self.add_dir (os.path.join ('libjava', 'testsuite'), TestsuiteFilter())
self.add_dir ('libmudflap', LibMudflapFilter())
self.add_dir (os.path.join ('libmudflap', 'testsuite'),
    TestsuiteFilter())
self.add_dir ('libobjc')
self.add_dir ('libquadmath')
# libsanitiser is imported from upstream.
self.add_dir ('libssp')
self.add_dir ('libstdc++-v3', LibStdCxxFilter())
self.add_dir ('lto-plugin')
# zlib is imported from upstream.

self.default_dirs = [
    'gcc',
    'libada',
    'libatomic',
    'libbacktrace',
    'libcpp',
    'libdecnumber',
    'libgcc',
    'libgfortran',
    'libgomp',
    'libitm',
    'libmudflap',
    'libobjc',
    'libstdc++-v3',
]

GCCCmdLine().main()

<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd"><html
There are two licenses affecting GNU libstdc++: one for the code, and one for the documentation.

There is a license section in the FAQ regarding common questions. If you have more questions, ask the FSF or the gcc mailing list.

The source code is distributed under the GNU General Public License version 3 and the GCC Runtime Library Exception, version 3.1 as follows (or see the file COPYING.RUNTIME):

GCCRUNTIMELIBRARYEXCEPTION

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 file if it contains

fileisgovernedbyGPLv3alongwiththisException.

When you use GCC to compile a program, GCC may combine portions of the program. The purpose of this Exception is to allow compilation of non-GPL (including proprietary) programs together with the GCC libraries.

source

header

runtime

library

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 if it contains

fileisgovernedbyGPLv3alongwiththisException.
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 as 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 bytecode, 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.

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package gnu.classpath.tools.taglets;

import java.util.Map;
import com.sun.tools.doclets.Taglet;
import com.sun.javadoc.Tag;

/**
 * A simple Taglet which handles Copyright information.
 */
public class CopyrightTaglet implements Taglet {

    private static final String NAME = "copyright";
    private static final String HEADER = "Copyright:";

    public String getName() {
        return NAME;
    }

    public boolean inField() {
        return true;
    }

    public boolean inConstructor() {
        return true;
    }

    public boolean inMethod() {
        return true;
    }

    public boolean inOverview() {
        return true;
    }

    public boolean inPackage() {
        return true;
    }

    public boolean inType() {
        return true;
    }

    public boolean isInlineTag() {
        return false;
    }

    public static void register(Map tagletMap) {
        CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
        tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
    }
}
public String toString(Tag tag) {
    return toString(new Tag[] { tag });
}

public String toString(Tag[] tags) {
    if (tags.length == 0) {
        return null;
    }
    else {
        boolean haveValidTag = false;
        for (int i = 0; i < tags.length && !haveValidTag; ++i) {
            if (tags[i].text().length() > 0) {
                haveValidTag = true;
            }
        }
        if (haveValidTag) {
            StringBuffer result = new StringBuffer();
            result.append("<dl>");
            for (int i = 0; i < tags.length; i++) {
                if (tags[i].text().length() > 0) {
                    result.append("<dt><i>Copyright © " + tags[i].text() + "</i></dt>\n                    ");
                }
            }
            result.append("</dl>\n            ");
            return result.toString();
        }
        else {
            return null;
        }
    }
}

/* Permission.java -- The superclass for all permission objects

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package java.security;

import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission. A permission consists of a permission name
 * and optionally a list of actions that relate to the permission. The
 * actual meaning of the name of the permission is defined only in the
 * context of a subclass. It may name a resource to which access permissions
 * are granted (for example, the name of a file) or it might represent
 * something else entirely. Similarly, the action list only has meaning
 * within the context of a subclass. Some permission names may have no
 * actions associated with them. That is, you either have the permission
 * or you don't.
 * *
 * <p>The most important method in this class is <code>implies</code>. This
 * checks whether if one has this permission, then the specified
 * permission is also implied. As a conceptual example, consider the
 * permissions "Read All Files" and "Read File foo". The permission
 * "Read All Files" implies that the caller has permission to read the
 * file foo.
 */
/*
 * <p><code>Permission</code>'s must be immutable - do not change their
 * state after creation.
 *
 * @author Aaron M. Renn (arenn@urbanophile.com)
 * @see Permissions
 * @see PermissionCollection
 * @since 1.1
 * @status updated to 1.4
 */

public abstract class Permission implements Guard, Serializable {

    /*
     * Compatible with JDK 1.1+.
     */
    private static final long serialVersionUID = -5636570222231596674L;

    /*
     * This is the name assigned to this permission object.
     *
     * @serial the name of the permission
     */
    private String name;

    /*
     * Create an instance with the specified name.
     *
     * @param name the permission name
     */
    public Permission(String name) {
        this.name = name;
    }

    /*
     * This method implements the <code>Guard</code> interface for this class.
     * It calls the <code>checkPermission</code> method in
     * <code>SecurityManager</code> with this <code>Permission</code> as its
     * argument.  This method returns silently if the security check succeeds
     * or throws an exception if it fails.
     *
     * @param obj the <code>Object</code> being guarded - ignored by this class
     * @throws SecurityException if the security check fails
     * @see GuardedObject
     * @see SecurityManager#checkPermission(Permission)
     */
    public void checkGuard(Object obj) {
    }
}
SecurityManager sm = System.getSecurityManager();
if (sm != null)
    sm.checkPermission(this);
}

/**
 * This method tests whether this <code>Permission</code> implies that the
 * specified <code>Permission</code> is also granted.
 * @param perm the <code>Permission</code> to test against
 * @return true if perm is implied by this
 */
public abstract boolean implies(Permission perm);

/**
 * Check to see if this object equals obj. Use <code>equals</code>, rather
 * than <code>equals</code>, when making access control decisions.
 * @param obj the object to compare to
 */
public abstract boolean equals(Object obj);

/**
 * This method returns a hash code for this <code>Permission</code>. It
 * must satisfy the contract of <code>equals</code>: it must be
 * the same for all objects that equals considers to be the same.
 * @return a hash value
 */
public abstract int hashCode();

/**
 * Get the name of this <code>Permission</code>.
 * @return the name
 */
public final String getName()
{
    return name;
}

/**
 * This method returns the list of actions for this <code>Permission</code>
 * as a <code>String</code>. The string should be in canonical order, for
 * example, both <code>new FilePermission(f, "write,read")</code> and
 * <code>new FilePermission(f, "read,write")</code> have the action list
 * "read,write".
 *
public abstract String getActions();

/**
 * This method returns an empty <code>PermissionCollection</code> object
 * that can store permissions of this type, or <code>null</code> if no
 * such collection is defined. Subclasses must override this to provide
 * an appropriate collection when one is needed to accurately calculate
 * <code>implies</code>.  
 *
 * @return a new <code>PermissionCollection</code>
 */
public PermissionCollection newPermissionCollection()
{
    return null;
}

/**
 * This method returns a <code>String</code> representation of this
 * <code>Permission</code> object. This is in the format:
 * <code>'(' + getClass().getName() + ' ' + getName() + ' ' + getActions
 * + ')'</code>.  
 *
 * @return this object as a <code>String</code>
 */
public String toString()
{
    CPStringBuilder string = new CPStringBuilder();

    string = string.append('(');
    string = string.append(getClass().getName());
    string = string.append(' ');
    string = string.append(getName());
    if (!(getActions().equals("")))
    {
        string = string.append(' ');
        string = string.append(getActions());
    }

    string = string.append(')');
    return string.toString();
}
} // class Permission

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package java.security.acl;

/**
 * This interface provides information about a permission that can be granted. Note that this is not the same as the class <code>java.security.Permission</code>.
 * @version 0.0
 * @author Aaron M. Renn (arenn@urbanophile.com)
 */
public interface Permission {
/**

* This method tests whether or not a specified <code>Permission</code> (passed as an <code>Object</code>) is the same as this permission.
 *
 * @param perm The permission to check for equality
 *
 * @return <code>true</code> if the specified permission is the same as this one, <code>false</code> otherwise
 */

boolean equals (Object perm);

/**
 * This method returns this <code>Permission</code> as a <code>String</code>.
 *
 * @return A <code>String</code> representing this permission.
 */
String toString();

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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 "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 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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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.

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"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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2. 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:

a) The modified work must itself be a software library.

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.

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.

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.

7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

a) 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.

b) Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
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To apply these terms, attach the following notices to the library. 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.
<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

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

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

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

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

That's all there is to it!

1.425 cracklib 2.9.0 :11.el7
1.425.1 Available under license :

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EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)
----------

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attaches: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries under
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly
and see if he wants to relicense his code as LGPL... but at this point,
it was enough to just get it consistent and documented as to what it was
released under. This wasn't actually a license change, just a
clarification of the licensing that was already in place.

-- Nathan

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
the original license (before moving to sourceforge -- aka, 2.7) was not=20
GPL-2 ... it was a modified artistic license ... i didnt notice the license=20
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=20
eir=20
applications are also GPL-2 which imo is just wrong. it isnt the place of =20
a=20
library to dictact to application writes what license they should be using.=20

thus LGPL-2.1 enters to fill this void.

=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro
maintainers to get together with Alec in a conversation and come to a
decision as to what licensing scheme y'all want. I haven't really done
much other than cleaning up the packaging and patches and a small bit of
additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan
=20
------------------------------------------------------------
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
> =20
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
> > directly
> > and see if he wants to relicense his code as LGPL... but at this
> > point,
> > it was enough to just get it consistent and documented as to what
> > it was
Open Source Used In PI 3.5.1 3.5.1

> > released under. This wasn't actually a license change, just a
> > clarification of the licensing that was already in place.
> >=20
> > the original license (before moving to sourceforge -- aka, 2.7) was
> > not
> > GPL-2 ... it was a modified artistic license ... i didn't notice the
> > license
> > change until it was mentioned in the latest notes.
> >=20
> > unlike the old license, GPL-2 prevents people from using cracklib
> > unless their
> > applications are also GPL-2 which imo is just wrong. it isn't the
> > place of a
> > library to dictate to application writes what license they should
> > be using.
> > thus LGPL-2.1 enters to fill this void.
> > -mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL....

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct
license in this situation.
Devin
--
If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
> > much other than cleaning up the packaging and patches and a small
> > bit of
> > additional code, so whatever licensing y'all come up with is fine
> > by me.
> > I am sympathetic. Guys, what do you reckon?
> > What I am hearing so far is that LGPL makes sense, since it can be
> > linked with any code, not just GPL....

My apologies for not chiming in in anything resembling a reasonable
timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately,
GPLv2 with the option of using the library under a later version of the
GPL would permit applications which were released under version 3 of the
GPL to use the library, too, which would be sufficient for the packages
which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
> > much other than cleaning up the packaging and patches and a small
> > bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.
> 
> I am sympathetic. Guys, what do you reckon?
> 
> What I am hearing so far is that LGPL makes sense, since it can be
> linked with any code, not just GPL...
> 
> My apologies for not chiming in in anything resembling a reasonable
> timeframe.
> 
> I'd also suggest the LGPL, for the reason you noted above. Alternately,
> GPLv2 with the option of using the library under a later version of the
> GPL would permit applications which were released under version 3 of the
> GPL to use the library, too, which would be sufficient for the packages
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.
> 
> In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
the change now ?

-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
>> In any case, I thank you both for working on sorting this out.
> 
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
On Sunday 05 October 2008, Alec Muffett wrote:
> >> In any case, I thank you both for working on sorting this out.
> >
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
> > make the change now ?
> >
> yes. go for it. thanks++
Nathan Neulinger is the only one who can actually make said change ...

-mike

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BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
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CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

-------------------------------------
From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
by scanin-ipv6.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47]) by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
by rutherford.zen.co.uk with esmtpp (Exim 4.50)
id 1IcOcX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
 References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
Any chance you could write me a self-contained email stating clearly that the license is being changed to GPL, so I could include that email in the repository and clean up the repository/tarballs? I have all the original discussion, but something succinct and self contained would be ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

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Version 2.1, February 1999

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*L.
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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.

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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^L

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

That's all there is to it!
This package was debianized by Jean Pierre LeJacq <jplejacq@quoininc.com> on Wed, 25 Feb 1998. Martin Pitt <martin@piware.de> was the package's maintainer up to version 2.7.19-1. The current maintainer is Jan Dittberner <jandd@debian.org>.

It was downloaded from http://sourceforge.net/projects/cracklib

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Copyright (c) 2005-2009 Nathan Neulinger <nneul@umr.edu>,
Copyright (c) 2008-2009 Jan Dittberner <jan@dittberner.info>

Modifications: Added cronjob, configuration file, and man pages.

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Copyright information:

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett. Cracklib's license was changed from the GPL to the LGPL after consensus of all previous developers in October 2008, effective with release 2.8.15 released on 2009-11-19. See the email discussion below for both license changes.
clarification of the licensing that was already in place.

-- Nathan

------------------------------------------------------------
Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
>
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing
> libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not
GPL-2 ... it was a modified artistic license ... i didnt notice the license=
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=e
applications are also GPL-2 which imo is just wrong. it isnt the place of =
library to dictact to application writes what license they should be using.=
thus LGPL-2.1 enters to fill this void.

-mike
Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
directly
> > and see if he wants to relicense his code as LGPL... but at this
point,
> > it was enough to just get it consistent and documented as to what
it was
> > released under. This wasn't actually a license change, just a
> > clarification of the licensing that was already in place.
>
> the original license (before moving to sourceforge -- aka, 2.7) was
not
> GPL-2 ... it was a modified artistic license ... i didnt notice the
> license
> change until it was mentioned in the latest notes.
>
> unlike the old license, GPL-2 prevents people from using cracklib
> unless their
> applications are also GPL-2 which imo is just wrong. it isnt the
> place of a
> library to dictact to application writes what license they should
be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL....

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct
license in this situation.

Devin

--
If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
> > much other than cleaning up the packaging and patches and a small
> > bit of
> > additional code, so whatever licensing y'all come up with is fine
> > by me.
> I am sympathetic. Guys, what do you reckon?
>
> What I am hearing so far is that LGPL makes sense, since it can be
> linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable
timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately,
GPLv2 with the option of using the library under a later version of the
GPL would permit applications which were released under version 3 of the
GPL to use the library, too, which would be sufficient for the packages
which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

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Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

On Monday 28 January 2008, Nalin Dahyabhai wrote:
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BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
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CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.
The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
   Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
   Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
   by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
   by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtptr020623
   for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
   by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
   for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
   by rutherford.zen.co.uk with esmtp (Exim 4.50)
   id 11cOcX-0004Qt-6L
   for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dadca0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
   <EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
   <1b1b3fd80710010908k11dadca0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-80DD-56FBEFBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
Lines: 21
Any chance you could write me a self-contained email stating clearly
that the license is being changed to GPL, so I could include that
email
in the repository and clean up the repository/tarballs? I have all the
original discussion, but something succinct and self contained
would be
ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

1.426 cracklib-dicts 2.9.0 :11.el7

1.426.1 Available under license :

This package was debianized by Jean Pierre LeJacq
<jplejacq@quoininc.com> on Wed, 25 Feb 1998. Martin Pitt
<martin@piware.de> was the package's maintainer up to version
2.7.19-1. The current maintainer is Jan Dittberner
<jandd@debian.org>.

It was downloaded from http://sourceforge.net/projects/cracklib

Copyright (c) 1993 Alec Muffett <alecm@crypto.dircon.co.uk>,
Copyright (c) 2005-2009 Nathan Neulinger <nneul@umr.edu>,
Copyright (c) 2008-2009 Jan Dittberner <jan@dittberner.info>

Modifications: Added cronjob, configuration file, and man pages.

This library is free software; you can redistribute it and/or modify
it under the terms of the GNU Lesser General Public License as
published by the Free Software Foundation; either version 2.1 of the
License, or (at your option) any later version.

This library 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
Lesser General Public License for more details.
A copy of the GNU Lesser General Public License 2.1 is available as /usr/share/common-licenses/LGPL-2.1 in the Debian GNU/Linux distribution or on the World Wide Web at http://www.gnu.org/licenses/old-licenses/lgpl-2.1.html. You can also obtain it by writing to the Free Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301, USA.

Copyright information:

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This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett. Cracklib's license was changed from the GPL to the LGPL after consensus of all previous developers in October 2008, effective with release 2.8.15 released on 2009-11-19. See the email discussion below for both license changes.

-------------------------------------------------------

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EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)
-----------

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

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From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
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Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

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> [mailto:cracklib-devel-bounces@li...] On Behalf Of
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-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
On Sunday 05 October 2008, Alec Muffett wrote:
> >> In any case, I thank you both for working on sorting this out.
> >
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now?
> >
> > yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...

-mike

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BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
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CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed
as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

-------------------------------------
From alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43) by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47]) by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id I91Gxtpr020623 for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0000
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142]) by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311 for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (hel0=[192.168.1.3])
by rutherford.zen.co.uk with esmtp (Exim 4.50)
id I1cOcX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dad0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dad0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=floowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

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Version 2.1, February 1999

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1.440 cxf-rt-rs-sse 3.2.5

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1.457 DESCipher java 1
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//

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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 form 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>

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vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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<!--- $Id: copyright.xsl,v 1.8 2009/07/10 23:47:58 tbox Exp $ -->

<!--- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet xmlns:xsl="http://www.w3.org/1999/XSL/Transform" version="1.0">
  <xsl:template name="isc.copyright.format">
    <xsl:param name="text"/>
    <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
    <xsl:text>&#10;</xsl:text>
    <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
    <xsl:if test="translate($rest, '&#9;&#32;', '')">
      <xsl:call-template name="isc.copyright.format">
        <xsl:with-param name="text" select="normalize-space(translate($rest, ',
            
          ', ',
            
          '))"/>
      </xsl:call-template>
    </xsl:if>
  </xsl:template>
</xsl:stylesheet>
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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 form the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5cff2bb5bb6.

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>

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1.478 e2fsprogs 1.41.12 :23.el6
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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

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This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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It is part of the main e2fsprogs distribution, which can be found at:

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This is the Debian GNU/Linux prepackaged version of the Common Error
Description library. It is currently distributed together with the EXT2 file
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This package was put together by Yann Dirson <dirson@debian.org>,
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tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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This is the Debian GNU/Linux prepackaged version of the ss
command-line interface parsing library 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>,
from sources obtained from a mirror of:
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library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
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That's all there is to it!
/*

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DAMAGE.
Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
 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
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** NOTE! The following LGPL license applies to the tdb
** library. This does NOT imply that all of Samba is released
#
# 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): $(OBJ)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS) $(OBJ))
$(MV) pic/$(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) $(BSD_LIB) \n$(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)

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Gadi Oxman, August 1995

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This package was added to the e2fsprogs debian source package by 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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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

It is part of the main e2fsprogs distribution, which can be found at:

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This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library 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>, from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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It is part of the main e2fsprogs distribution, which can be found at:

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Theodore Ts'o
23-June-2007

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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
** NOTE! The following LGPL license applies to the tdb library. This does NOT imply that all of Samba is released
#
# 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) $(LDFLAGS) $(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-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)

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Gadi Oxman, August 1995

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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>,
from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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It is part of the main e2fsprogs distribution, which can be found at:

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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Theodore Ts'o
23-June-2007

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vault/signame, 1 April 1989
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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

--- tdbsa.org/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes

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1.482 easyrules-core 2.1.0
1.483 easyrules-jmx 2.1.0

1.484 easyrules-quartz 2.1.0

1.485 easyrules-spring 2.1.0

1.486 ebtables 2.0.10 :16.el7

1.486.1 Available under license:

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1.495 elfutils-libelf 0.170 :4.el7

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Commentary:

Allows updating the copyright year and above mentioned GPL version manually
or when saving a file.
Do (add-hook 'before-save-hook 'copyright-update), or use
M-x customize-variable RET before-save-hook RET.

Code:

(defvar copyright-limit 2000
"Don't try to update copyright beyond this position unless interactive.
A value of nil means to search whole buffer."
:group 'copyright
:type '(choice (integer :tag "Limit")
(const :tag "No limit"))

(defvar copyright-at-end-flag nil
"Non-nil means to search backwards from the end of the buffer for copyright.
This is useful for ChangeLogs."
:group 'copyright
:type boolean
:version "23.1")

(defvar copyright-regexp
"\(\|\@copyright{}\|\[Cc\]opyright\s *:?\s *\(\(?:(C)\)?\|\[Cc\]opyright\s *:?\s *\)\s *\(?:[^0-9\n]*\s *\)?")

(defvar copyright-regexp-autoload(put 'copyright-at-end-flag 'safe-local-variable 'booleanp)

(defvar copyright-regexp-autoload
"\(\|\@copyright{}\|\[Cc\]opyright\s *:?\s *\(\(?:(C)\)?\|\[Cc\]opyright\s *:?\s *\)
\s *\?:[^0-9\n]*\s *\)\"
What your copyright notice looks like.
The second \( \) construct must match the years."
:group 'copyright
:type 'regexp)

(defun copyright-names-regexp ""
"Regexp matching the names which correspond to the user.
Only copyright lines where the name matches this regexp will be updated.
This allows you to avoid adding years to a copyright notice belonging to
someone else or to a group for which you do not work."
:group 'copyright
:type 'regexp)

;; The worst that can happen is a malicious regexp that overflows in
;; the regexp matcher, a minor nuisance. It's a pain to be always
;; prompted if you want to put this in a dir-locals.el.
;;;;###autoload(put 'copyright-names-regexp 'safe-local-variable 'stringp)

(defun copyright-years-regexp
"\([0-9]+\)\([0-9]+[,-*%#\s<\s>]*[0-9]+\)"
"Match additional copyright notice years.
The second \( \) construct must match the years."
:group 'copyright
:type 'regexp)

;; See "Copyright Notices" in maintain.info.
;; TODO? 'end only for ranges at the end, other for all ranges.
;; Minimum limit on the size of a range?
(defun copyright-year-ranges nil
"Non-nil if individual consecutive years should be replaced with a range.
If you use ranges, you should add an explanatory note in a README file.
The function 'copyright-fix-years' respects this variable."
:group 'copyright
:type 'boolean
:version "24.1")

;;;;###autoload(put 'copyright-year-ranges 'safe-local-variable 'booleanp)

(defun copyright-query 'function
"If non-nil, ask user before changing copyright.
When this is 'function', only ask when called non-interactively."
:group 'copyright
:type '(choice (const :tag "Do not ask")
(const :tag "Ask unless interactive" function)
(other :tag "Ask" t)))
;; when modifying this, also modify the comment generated by autoinsert.el
(defconst copyright-current-gpl-version "3"
"String representing the current version of the GPL or nil.")

(defvar copyright-update t
"The function `copyright-update' sets this to nil after updating a buffer.")

;; This is a defvar rather than a defconst, because the year can change during the Emacs session.
(defvar copyright-current-year (format-time-string "%Y")
"String representing the current year.")

(defun copyright-re-search (regexp &optional bound noerror count)
"Re-search forward or backward depending on `copyright-at-end-flag'."
(if copyright-at-end-flag
  (re-search-backward regexp bound noerror count)
  (re-search-forward regexp bound noerror count)))

(defun copyright-find-copyright ()
"Return non-nil if a copyright header suitable for updating is found. The header must match `copyright-regexp' and `copyright-names-regexp', if set. This function sets the match-data that `copyright-update-year' uses."
(widen)
(goto-char (copyright-start-point))
(condition-case err
  ;; (1) Need the extra \( \) around copyright-regexp because we
goto (match-end 1) below. See note (2) below.
copyright-re-search (concat \"\\" copyright-regexp
 ..........................................................}
"\)\([-]*(?:\)?(\()\)?\)\)
copyright-names-regexp "\)"
)\)
copyright-limit)
)\)
;; In case the regexp is rejected. This is useful because
;; copyright-update is typically called from before-save-hook where
;; such an error is very inconvenient for the user.
(error (message "Can't update copyright: %s" err) nil))

(defun copyright-find-end ()
 "Possibly adjust the search performed by `copyright-find-copyright'.
If the years continue onto multiple lines that are marked as comments,
skips to the end of all the years."
(while (save-excursion
  (and (eq (following-char) ?),
   (progn (forward-char 1) t)
   (progn (skip-chars-forward " \t") (eolp))
   comment-start-skip
   (save-match-data
    (forward-line 1)
    (and (looking-at comment-start-skip)
     (goto-char (match-end 0)))))
   (looking-at-p copyright-years-regexp))))
 (forward-line 1)
 (re-search-forward comment-start-skip)
 ;; (2) Need the extra \( \) so that the years are subexp 3, as
 ;; they are at note (1) above.
 (re-search-forward (format "\(\%s\)" copyright-years-regexp)))))

(defun copyright-update-year (replace noquery)
 ;; This uses the match-data from copyright-find-copyright/end.
 (goto-char (match-end 1))
 (copyright-find-end)
 (setq copyright-current-year (format-time-string "%Y")))
 (unless (string= (buffer-substring (- (match-end 3) 2) (match-end 3))
  (substring copyright-current-year -2))
 (if (or noquery
   (save-window-excursion
    (switch-to-buffer (current-buffer))
    ;; Fixes some point-moving oddness (bug#2209).
    (save-excursion
     (y-or-n-p (if replace
       (concat "Replace copyright year(s) by "
       copyright-current-year "? ")
       (concat "Add " copyright-current-year
       " to copyright? "))))))
 (if replace
 (replace-match copyright-current-year t t nil 3)
(let ((size (save-excursion (skip-chars-backward "0-9"))))
  (if (and (eq (%) (- (string-to-number copyright-current-year)
                   (string-to-number (buffer-substring
                                      (+ (point) size)
                                      (point))))
            100)
      1)
    (or (eq (char-after (+ (point) size -1)) ?-)
         (eq (char-after (+ (point) size -2)) ?-)))
  ;; This is a range so just replace the end part.
  (delete-char size)
  ;; Insert a comma with the preferred number of spaces.
  (insert
   (save-excursion
    (if (re-search-backward "[0-9]\( *, *\)[0-9]"
        (line-beginning-position) t)
     (match-string 1)
     ", "))
  ;; If people use the '91 '92 '93 scheme, do that as well.
  (if (eq (char-after (+ (point) size -3)) ?')
       (insert ?'))
  ;; Finally insert the new year.
  (insert (substring copyright-current-year size))))

;;;###autoload
(defun copyright-update (&optional arg interactivep)
"Update copyright notice to indicate the current year.
With prefix ARG, replace the years in the notice rather than adding
the current year after them. If necessary, and
`copyright-current-gpl-version' is set, any copying permissions
following the copyright are updated as well.
If non-nil, INTERACTIVEP tells the function to behave as when it's called
interactively."
(interactive "*P\n
\nd")
  (when (or copyright-update interactivep)
    (let ((noquery (or (not copyright-query)
                       (and (eq copyright-query 'function) interactivep)))
      (save-excursion
        (save-restriction
          ;; If names-regexp doesn't match, we should not mess with
          ;; the years _or_ the GPL version.
          ;; TODO there may be multiple copyrights we should update.
          (when (copyright-find-copyright)
            (copyright-update-year arg noquery)
            (goto-char (copyright-start-point))
            (and copyright-current-gpl-version
             ;; Match the GPL version comment in .el files.
             ;; This is sensitive to line-breaks. :
             ))))
    (save-restriction
      ;; If names-regexp doesn't match, we should not mess with
      ;; the years _or_ the GPL version.
      ;; TODO there may be multiple copyrights we should update.
      (when (copyright-find-copyright)
        (copyright-update-year arg noquery)
        (goto-char (copyright-start-point))
        (and copyright-current-gpl-version
         ;; Match the GPL version comment in .el files.
         ;; This is sensitive to line-breaks. :(
(copyright-re-search
 "the Free Software Foundation\[;\n[*either version \n\[\(0-9\]+\)\(\(?; of the License\)\)?, or[ \n[*any later version"
 (copyright-limit) t)
 ;; Don't update if the file is already using a more recent
 ;; version than the "current" one.
 (< (string-to-number (match-string 1))
  (string-to-number copyright-current-gpl-version))
 (or noquery
  (save-match-data
   (goto-char (match-end 1))
   (save-window-excursion
    (switch-to-buffer (current-buffer))
    (y-or-n-p
     (format "Replace GPL version %s with version %s? "
      (match-string-no-properties 1)
      copyright-current-gpl-version))))
  (replace-match copyright-current-gpl-version t t nil 1))))
 (set (make-local-variable 'copyright-update) nil)))

;; If a write-file-hook returns non-nil, the file is presumed to be written.

;; FIXME heuristic should be within 50 years of present (cf calendar).
;;###autoload
(defun copyright-fix-years ()
 "Convert 2 digit years to 4 digit years.
 Uses heuristic: year >= 50 means 19xx, < 50 means 20xx.
 If `copyright-year-ranges' (which see) is non-nil, also
 independently replaces consecutive years with a range."
 (interactive)
 ;; TODO there may be multiple copyrights we should fix.
 (if (copyright-find-copyright)
  (let ((s (match-beginning 3))
    (p (make-marker))
    ;; Not line-beg-pos, so we don't mess up leading whitespace.
    (copystart (match-beginning 0))
    (e last sep year prev-year first-year range-start range-end)
    ;; In case years are continued over multiple, commented lines.
    (goto-char (match-end 1))
    (copyright-find-end)
    (setq e (copy-marker (1+ (match-end 3))))
    (goto-char s)
    (while (re-search-forward "\[0-9\]+" e t)
     (set-marker p (point))
     (goto-char (match-beginning 0))
     (setq year (string-to-number (match-string 0))
       (and (setq sep (char-before))
"Open Source Used In PL 3.5.1 3.5.1"
(when (< year 100)
  (insert (if (>= year 50) "19" "20"))
  (setq year (+ year (if (>= year 50) 1900 2000))))
(goto-char p)
(when copyright-year-ranges
  ;; If the previous thing was a range, don't try to tack more on.
  ;; TODO should merge into existing range if possible.
  (if (eq sep ?-)
      (setq prev-year nil
            year nil)
      (if (and prev-year (= year (1+ prev-year)))
          (setq range-end (point))
      (when (and first-year prev-year
                    (> prev-year first-year))
        (goto-char range-end)
        (delete-region range-start range-end)
        (insert (format "-%d" prev-year))
        (goto-char p))
    (setq first-year year
           range-start (point)))))
(setq prev-year year
       last p))
(when last
  (when (and copyright-year-ranges
              first-year prev-year
              (> prev-year first-year))
    (goto-char range-end)
    (delete-region range-start range-end)
    (insert (format "-%d" prev-year))
    (goto-char last))
  ;; Don't mess up whitespace after the years.
  (skip-chars-backward "\t")
  (save-restriction
    (narrow-to-region copystart (point))
    ;; This is clearly wrong, eg what about comment markers?
    ;; (let ((fill-prefix "   "))
    ;;  TODO do not break copyright owner over lines.
    (fill-region (point-min) (point-max)))
  (set-marker e nil)
  (set-marker p nil))
  ;; Simply reformatting the years is not copyrightable, so it does
  ;; not seem right to call this. Also it messes with ranges.
  ;;(copyright-update nil t))
  (message "No copyright message"))
(define-skeleton copyright
  "Insert a copyright by $ORGANIZATION notice at cursor."
  "Company: "
  comment-start
  "Copyright (C) " `(format-time-string "%Y") " by "
  (or (getenv "ORGANIZATION")
    str)
  (if (copyright-offset-too-large-p)
    (message "Copyright extends beyond `copyright-limit' and won't be updated automatically."))
  comment-end 
)

;;; TODO: recurse, exclude COPYING etc.

(defun copyright-update-directory (directory match &optional fix)
  "Update copyright notice for all files in DIRECTORY matching MATCH. If FIX is non-nil, run `copyright-fix-years' instead."
  (interactive "DDirectory: \nFMFile names matching (regexp): ")
  (dolist (file (directory-files directory t match nil))
    (unless (file-directory-p file)
      (message "Updating file `%s'" file)
      ;; FIXME we should not use find-file+save+kill.
      (let ((enable-local-variables :safe)
            (enable-local-eval nil))
        (find-file file))
      (let ((inhibit-read-only t))
        (if fix
          (copyright-fix-years)
          (copyright-update)))
        (save-buffer)
        (kill-buffer (current-buffer))))

(provide 'copyright)

;;: For the copyright sign:
;;: Local Variables:
;;: coding: utf-8
;;: End:

;;; copyright.el ends here

;ELC
;;; Compiled by gm@skiddaw on Fri Mar  8 00:17:33 2013
;;; from file /misc/emacs/bzr/emacs24-merge/lisp/emacs-lisp/copyright.el
;;; in Emacs version 24.3.1
;;; with all optimizations.

;;; This file contains utf-8 non-ASCII characters,
;; and so cannot be loaded into Emacs 22 or earlier.
(and (boundp 'emacs-version)
  (< (aref emacs-version (1- (length emacs-version))) 'A)
  (string-lessp emacs-version "23")
  (error "'%s' was compiled for Emacs 23 or later" #$))

........................................................................

(byte-code
"\300\301\302\303\304\305&\310\306\307\310\311\304\301\312\313\&\312\316\317\320&\310\306\301\323\304\301\312\324\&\310\306\325\326\327\304\301\312\324\&\310\306\303\331\332\304\301\312\324\&\310\306\333\302\334\304\301\312\316\317\335\&\310\306\336\337\340\304\301\312\341\&\207" [custom-declare-group copyright nil "Update the copyright notice in current buffer." :group tools custom-declare-variable copyright-limit 2000 "Don't try to update copyright beyond this position unless interactive.\nA value of nil means to search whole buffer." :type (choice (integer :tag "Limit") (const :tag "No limit")) copyright-at-end-flag "Non-nil means to search backwards from the end of the buffer for copyright.\nThis is useful for ChangeLogs." boolean :version "23.1" copyright-regexp \("\|@copyright{}\|\[Cc\]opyright\s *:\s *\(?:(C)\)?\|\[Cc\]opyright\s *:\s *\)\s *\(?:[^0-9\n]*\s *\)?\(\[1-9\]\(\[-0-9,');/*%#\n\t\]\|\s<\|\s>\)*\[0-9\]+\)" "What your copyright notice looks like.\nThe second (\ \) construct must match the years." regexp copyright-names-regexp "" "Regexp matching the names which correspond to the user.\nOnly copyright lines where the name matches this regexp will be updated.\nThis allows you to avoid adding years to a copyright notice belonging to someone else or to a group for which you do not work." copyright-years-regexp \("\|\s *\|\([\-0-9]\|\.[^*%#\n\t]\)*\|\s<\|\s>\)\s*\(\[1-9\]\(\[-0-9,');/*%#\n\t\]\|\s<\|\s>\)*\[0-9\]+\)" "Match additional copyright notice years.\nThe second (\ ( \) construct must match the years." copyright-year-ranges "Non-nil if individual consecutive years should be replaced with a range.\nFor example: 2005, 2006, 2007, 2008 might be replaced with 2005-2008.\nIf you use ranges, you should add an explanatory note in a README file.\nThe function "copyright-fix-years" respects this variable." "24.1" copyright-query 'function "If non-nil, ask user before changing copyright.\nWhen this is "function", only ask when called non-interactively." (choice (const :tag "Do not ask") (const :tag "Ask unless interactive" function) (other :tag "Ask" t)) 10) 10)

#60 String representing the current version of the GPL or nil.
(deffconst copyright-current-gpl-version "3" (#$ . 2656))

#75 The function 'copyright-update' sets this to nil after updating a buffer.
(defvar copyright-update t (#$ . 2778))

#39 String representing the current year.
(defvar copyright-current-year (format-time-string "%%Y") (#$ . 2898))

(defalias 'copyright-limit #\[nil "\205\203\Z\207\\207" [copyright-limit copyright-at-end-flag] 2])

(put 'copyright-limit 'byte-optimizer 'byte-compile-inline-expand)

#69 Re-search forward or backward depending on 'copyright-at-end-flag'.
(defalias 'copyright-re-search #\[regexp \&optional bound noerror count "\203\305\n\S\207\306\n\S\207" [copyright-at-end-flag re-search-backward re-search-forward] 5 (#$ . 3189)])

#70 Return point-min or point-max, depending on 'copyright-at-end-flag'.
(defalias 'copyright-start-point #\[nil "\203\d\207\e\207" [copyright-at-end-flag] 1 (#$ . 3479)])

#65 Return non-nil if point is too far from the edge of the buffer.
(defalias 'copyright-offset-too-large-p #\[nil "\205\203\d\Z\207\e\n\207" [copyright-limit copyright-at-end-flag] 3 (#$ . 3653)])

#218 Return non-nil if a copyright header suitable for updating is found.
The header must match 'copyright-regexp' and 'copyright-names-regexp', if set.
This function sets the match-data that `copyright-update-year' uses.
(defalias 'copyright-find-copyright #nul "\(\%s\) ... err nil)) 3 (\$ . 3862))
#@175 Possibly adjust the search performed by 'copyright-find-copyright'.
If the years continue onto multiple lines that are marked as comments,
skips to the end of all the years.
(defalias 'copyright-find-end #nul "\(\%s\) ... nil match-data ((byte-code "\(\%s\) ... evaporate] 3)) looking-at 0 t re-search-forward format "(\%s)" 4 (\$ . 4487))
(defalias 'copyright-update-year #[(replace noquery) ... \(\%s\) ... copyright-find-end format-time-string "%Y" 3 2 -2 nil current-window-configuration ((set-window-configuration #1#)) switch-to-buffer y-or-n-p "Replace copyright year(s) by \(\%s\) ... t re-search-backward "[0-9]*\(\%s\) ... line-beginning-position match-string ", " -3 39] 6))
#@369 Update copyright notice to indicate the current year.
With prefix ARG, replace the years in the notice rather than adding the current year after them. If necessary, and 'copyright-current-gpl-version' is set, any copying permissions following the copyright are updated as well.
If non-nil, INTERACTIVEP tells the function to behave as when it's called interactively.
(defalias 'copyright-update #[(&optional arg interactivep) ... \(\%s\) ... copyright-update interactivep copyright-query noquery arg copyright-current-gpl-version function copyright-find-copyright copyright-update-year copyright-start-point copyright-re-search "the Free Software Foundation[,];\n...of the License\)?, or[\n,"any later version" t string-to-number match-string 1 match-data ((byte-code "\(\%s\) ... evaporate] 3)) current-window-configuration ((set-window-configuration #1#)) switch-to-buffer y-or-n-p format "Replace GPL version \%s with version \%s? " match-string-no-properties replace-match nil make-local-variable copyright-limit copyright-at-end-flag save-match-data-internal #1#] 6 (\$ . 6067) "**Pnd")])
#@208 Convert 2 digit years to 4 digit years.
Uses heuristic: year >= 50 means 19xx, < 50 means 20xx.
If 'copyright-year-ranges' (which see) is non-nil, also independently replaces consecutive years with a range.
(defalias 'copyright-fix-years #nul "\(\%s\) ... copyright-query noquery arg copyright-current-gpl-version function copyright-find-copyright copyright-update-year copyright-start-point copyright-re-search "the Free Software Foundation[,];\n...of the License\)?, or[\n,"any later version" t string-to-number match-string 1 match-data ((byte-code "\(\%s\) ... evaporate] 3)) current-window-configuration ((set-window-configuration #1#)) switch-to-buffer y-or-n-p format "Replace GPL version \%s with version \%s? " match-string-no-properties replace-match nil make-local-variable copyright-limit copyright-at-end-flag save-match-data-internal #1#] 6 (\$ . 6067) "**Pnd")])
#@208 Convert 2 digit years to 4 digit years.
Uses heuristic: year >= 50 means 19xx, < 50 means 20xx.
If 'copyright-year-ranges' (which see) is non-nil, also independently replaces consecutive years with a range.
Why Software Should Be Free

by Richard Stallman

(Version of April 24, 1992)

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Introduction
*************

The existence of software inevitably raises the question of how decisions about its use should be made. For example, suppose one individual who has a copy of a program meets another who would like a copy. It is possible for them to copy the program; who should decide whether this is done? The individuals involved? Or another party, called the "owner"?

Software developers typically consider these questions on the assumption that the criterion for the answer is to maximize developers' profits. The political power of business has led to the government adoption of both this criterion and the answer proposed by the developers: that the program has an owner, typically a corporation associated with its development.

I would like to consider the same question using a different criterion: the prosperity and freedom of the public in general.

This answer cannot be decided by current law--the law should conform to ethics, not the other way around. Nor does current practice decide this question, although it may suggest possible answers. The only way to judge is to see who is helped and who is hurt by recognizing owners of software, why, and how much. In other words, we should perform a cost-benefit analysis on behalf of society as a whole, taking account of individual freedom as well as production of material goods.

In this essay, I will describe the effects of having owners, and show that the results are detrimental. My conclusion is that programmers have the duty to encourage others to share, redistribute, study and improve the software we write: in other words, to write "free" software.\(^{(1)}\)

How Owners Justify Their Power
*********************************

Those who benefit from the current system where programs are property offer two arguments in support of their claims to own programs: the emotional argument and the economic argument.

The emotional argument goes like this: "I put my sweat, my heart, my soul into this program. It comes from *me*, it's *mine*!"

This argument does not require serious refutation. The feeling of
attachment is one that programmers can cultivate when it suits them; it is not inevitable. Consider, for example, how willingly the same programmers usually sign over all rights to a large corporation for a salary; the emotional attachment mysteriously vanishes. By contrast, consider the great artists and artisans of medieval times, who didn’t even sign their names to their work. To them, the name of the artist was not important. What mattered was that the work was done--and the purpose it would serve. This view prevailed for hundreds of years.

The economic argument goes like this: "I want to get rich (usually described inaccurately as ‘making a living’), and if you don't allow me to get rich by programming, then I won't program. Everyone else is like me, so nobody will ever program. And then you’ll be stuck with no programs at all!” This threat is usually veiled as friendly advice from the wise.

I’ll explain later why this threat is a bluff. First I want to address an implicit assumption that is more visible in another formulation of the argument.

This formulation starts by comparing the social utility of a proprietary program with that of no program, and then concludes that proprietary software development is, on the whole, beneficial, and should be encouraged. The fallacy here is in comparing only two outcomes--proprietary software vs. no software--and assuming there are no other possibilities.

Given a system of intellectual property, software development is usually linked with the existence of an owner who controls the software's use. As long as this linkage exists, we are often faced with the choice of proprietary software or none. However, this linkage is not inherent or inevitable; it is a consequence of the specific social/legal policy decision that we are questioning: the decision to have owners. To formulate the choice as between proprietary software vs. no software is begging the question.

The Argument against Having Owners
**********************************

The question at hand is, "Should development of software be linked with having owners to restrict the use of it?"

In order to decide this, we have to judge the effect on society of each of those two activities *independently*: the effect of developing the software (regardless of its terms of distribution), and the effect of restricting its use (assuming the software has been developed). If one of these activities is helpful and the other is harmful, we would be better off dropping the linkage and doing only the helpful one.
To put it another way, if restricting the distribution of a program already developed is harmful to society overall, then an ethical software developer will reject the option of doing so.

To determine the effect of restricting sharing, we need to compare the value to society of a restricted (i.e., proprietary) program with that of the same program, available to everyone. This means comparing two possible worlds.

This analysis also addresses the simple counterargument sometimes made that "the benefit to the neighbor of giving him or her a copy of a program is cancelled by the harm done to the owner." This counterargument assumes that the harm and the benefit are equal in magnitude. The analysis involves comparing these magnitudes, and shows that the benefit is much greater.

To elucidate this argument, let's apply it in another area: road construction.

It would be possible to fund the construction of all roads with tolls. This would entail having toll booths at all street corners. Such a system would provide a great incentive to improve roads. It would also have the virtue of causing the users of any given road to pay for that road. However, a toll booth is an artificial obstruction to smooth driving--artificial, because it is not a consequence of how roads or cars work.

Comparing free roads and toll roads by their usefulness, we find that (all else being equal) roads without toll booths are cheaper to construct, cheaper to run, safer, and more efficient to use.\(^{(2)}\) In a poor country, tolls may make the roads unavailable to many citizens. The roads without toll booths thus offer more benefit to society at less cost; they are preferable for society. Therefore, society should choose to fund roads in another way, not by means of toll booths. Use of roads, once built, should be free.

When the advocates of toll booths propose them as *merely* a way of raising funds, they distort the choice that is available. Toll booths do raise funds, but they do something else as well: in effect, they degrade the road. The toll road is not as good as the free road; giving us more or technically superior roads may not be an improvement if this means substituting toll roads for free roads.

Of course, the construction of a free road does cost money, which the public must somehow pay. However, this does not imply the inevitability of toll booths. We who must in either case pay will get more value for our money by buying a free road.
I am not saying that a toll road is worse than no road at all. That would be true if the toll were so great that hardly anyone used the road—but this is an unlikely policy for a toll collector. However, as long as the toll booths cause significant waste and inconvenience, it is better to raise the funds in a less obstructive fashion.

To apply the same argument to software development, I will now show that having "toll booths" for useful software programs costs society dearly: it makes the programs more expensive to construct, more expensive to distribute, and less satisfying and efficient to use. It will follow that program construction should be encouraged in some other way. Then I will go on to explain other methods of encouraging and (to the extent actually necessary) funding software development.

The Harm Done by Obstructing Software
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Consider for a moment that a program has been developed, and any necessary payments for its development have been made; now society must choose either to make it proprietary or allow free sharing and use. Assume that the existence of the program and its availability is a desirable thing.(3)

Restrictions on the distribution and modification of the program cannot facilitate its use. They can only interfere. So the effect can only be negative. But how much? And what kind?

Three different levels of material harm come from such obstruction:

* Fewer people use the program.

* None of the users can adapt or fix the program.

* Other developers cannot learn from the program, or base new work on it.

Each level of material harm has a concomitant form of psychosocial harm. This refers to the effect that people's decisions have on their subsequent feelings, attitudes and predispositions. These changes in people's ways of thinking will then have a further effect on their relationships with their fellow citizens, and can have material consequences.

The three levels of material harm waste part of the value that the program could contribute, but they cannot reduce it to zero. If they waste nearly all the value of the program, then writing the program harms society by at most the effort that went into writing the program.
Arguably a program that is profitable to sell must provide some net direct material benefit.

However, taking account of the concomitant psychosocial harm, there is no limit to the harm that proprietary software development can do.

Obstructing Use of Programs
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The first level of harm impedes the simple use of a program. A copy of a program has nearly zero marginal cost (and you can pay this cost by doing the work yourself), so in a free market, it would have nearly zero price. A license fee is a significant disincentive to use the program. If a widely-useful program is proprietary, far fewer people will use it.

It is easy to show that the total contribution of a program to society is reduced by assigning an owner to it. Each potential user of the program, faced with the need to pay to use it, may choose to pay, or may forego use of the program. When a user chooses to pay, this is a zero-sum transfer of wealth between two parties. But each time someone chooses to forego use of the program, this harms that person without benefiting anyone. The sum of negative numbers and zeros must be negative.

But this does not reduce the amount of work it takes to *develop* the program. As a result, the efficiency of the whole process, in delivered user satisfaction per hour of work, is reduced.

This reflects a crucial difference between copies of programs and cars, chairs, or sandwiches. There is no copying machine for material objects outside of science fiction. But programs are easy to copy; anyone can produce as many copies as are wanted, with very little effort. This isn't true for material objects because matter is conserved: each new copy has to be built from raw materials in the same way that the first copy was built.

With material objects, a disincentive to use them makes sense, because fewer objects bought means less raw materials and work needed to make them. It's true that there is usually also a startup cost, a development cost, which is spread over the production run. But as long as the marginal cost of production is significant, adding a share of the development cost does not make a qualitative difference. And it does not require restrictions on the freedom of ordinary users.

However, imposing a price on something that would otherwise be free is a qualitative change. A centrally-imposed fee for software distribution becomes a powerful disincentive.
What's more, central production as now practiced is inefficient even as a means of delivering copies of software. This system involves enclosing physical disks or tapes in superfluous packaging, shipping large numbers of them around the world, and storing them for sale. This cost is presented as an expense of doing business; in truth, it is part of the waste caused by having owners.

Damaging Social Cohesion

Suppose that both you and your neighbor would find it useful to run a certain program. In ethical concern for your neighbor, you should feel that proper handling of the situation will enable both of you to use it. A proposal to permit only one of you to use the program, while restraining the other, is divisive; neither you nor your neighbor should find it acceptable.

Signing a typical software license agreement means betraying your neighbor: "I promise to deprive my neighbor of this program so that I can have a copy for myself." People who make such choices feel internal psychological pressure to justify them, by downgrading the importance of helping one's neighbors--thus public spirit suffers. This is psychosocial harm associated with the material harm of discouraging use of the program.

Many users unconsciously recognize the wrong of refusing to share, so they decide to ignore the licenses and laws, and share programs anyway. But they often feel guilty about doing so. They know that they must break the laws in order to be good neighbors, but they still consider the laws authoritative, and they conclude that being a good neighbor (which they are) is naughty or shameful. That is also a kind of psychosocial harm, but one can escape it by deciding that these licenses and laws have no moral force.

Programmers also suffer psychosocial harm knowing that many users will not be allowed to use their work. This leads to an attitude of cynicism or denial. A programmer may describe enthusiastically the work that he finds technically exciting; then when asked, "Will I be permitted to use it?", his face falls, and he admits the answer is no. To avoid feeling discouraged, he either ignores this fact most of the time or adopts a cynical stance designed to minimize the importance of it.

Since the age of Reagan, the greatest scarcity in the United States is not technical innovation, but rather the willingness to work together for the public good. It makes no sense to encourage the former at the expense of the latter.
Obstructing Custom Adaptation of Programs

The second level of material harm is the inability to adapt programs. The ease of modification of software is one of its great advantages over older technology. But most commercially available software isn't available for modification, even after you buy it. It's available for you to take it or leave it, as a black box—that is all.

A program that you can run consists of a series of numbers whose meaning is obscure. No one, not even a good programmer, can easily change the numbers to make the program do something different.

Programmers normally work with the "source code" for a program, which is written in a programming language such as Fortran or C. It uses names to designate the data being used and the parts of the program, and it represents operations with symbols such as '+' for addition and '-' for subtraction. It is designed to help programmers read and change programs. Here is an example; a program to calculate the distance between two points in a plane:

```c
float
distance (p0, p1)
    struct point p0, p1;
{
    float xdist = p1.x - p0.x;
    float ydist = p1.y - p0.y;
    return sqrt (xdist * xdist + ydist * ydist);
}
```

Here is the same program in executable form, on the computer I normally use:

```
1314258944 -232267772 -231844864 1634862
1411907592 -231844836 2159150 1420296208
-234880989 -234879837 -234879966 -232295424
1644167167 -3214848 1090581031 1962942495
572518958 -803143692 1314803317
```

Source code is useful (at least potentially) to every user of a program. But most users are not allowed to have copies of the source code. Usually the source code for a proprietary program is kept secret by the owner, lest anybody else learn something from it. Users receive only the files of incomprehensible numbers that the computer will execute. This means that only the program's owner can change the program.

A friend once told me of working as a programmer in a bank for about
six months, writing a program similar to something that was commercially available. She believed that if she could have gotten source code for that commercially available program, it could easily have been adapted to their needs. The bank was willing to pay for this, but was not permitted to--the source code was a secret. So she had to do six months of make-work, work that counts in the GNP but was actually waste.

The MIT Artificial Intelligence lab (AI lab) received a graphics printer as a gift from Xerox around 1977. It was run by free software to which we added many convenient features. For example, the software would notify a user immediately on completion of a print job. Whenever the printer had trouble, such as a paper jam or running out of paper, the software would immediately notify all users who had print jobs queued. These features facilitated smooth operation.

Later Xerox gave the AI lab a newer, faster printer, one of the first laser printers. It was driven by proprietary software that ran in a separate dedicated computer, so we couldn't add any of our favorite features. We could arrange to send a notification when a print job was sent to the dedicated computer, but not when the job was actually printed (and the delay was usually considerable). There was no way to find out when the job was actually printed; you could only guess. And no one was informed when there was a paper jam, so the printer often went for an hour without being fixed.

The system programmers at the AI lab were capable of fixing such problems, probably as capable as the original authors of the program. Xerox was uninterested in fixing them, and chose to prevent us, so we were forced to accept the problems. They were never fixed.

Most good programmers have experienced this frustration. The bank could afford to solve the problem by writing a new program from scratch, but a typical user, no matter how skilled, can only give up.

Giving up causes psychosocial harm--to the spirit of self-reliance. It is demoralizing to live in a house that you cannot rearrange to suit your needs. It leads to resignation and discouragement, which can spread to affect other aspects of one's life. People who feel this way are unhappy and do not do good work.

Imagine what it would be like if recipes were hoarded in the same fashion as software. You might say, "How do I change this recipe to take out the salt?", and the great chef would respond, "How dare you insult my recipe, the child of my brain and my palate, by trying to tamper with it? You don't have the judgment to change my recipe and make it work right!"

"But my doctor says I'm not supposed to eat salt! What can I do?
Will you take out the salt for me?"

"I would be glad to do that; my fee is only $50,000." Since the owner has a monopoly on changes, the fee tends to be large. "However, right now I don't have time. I am busy with a commission to design a new recipe for ship's biscuit for the Navy Department. I might get around to you in about two years."

Obstructing Software Development

The third level of material harm affects software development. Software development used to be an evolutionary process, where a person would take an existing program and rewrite parts of it for one new feature, and then another person would rewrite parts to add another feature; in some cases, this continued over a period of twenty years. Meanwhile, parts of the program would be "cannibalized" to form the beginnings of other programs.

The existence of owners prevents this kind of evolution, making it necessary to start from scratch when developing a program. It also prevents new practitioners from studying existing programs to learn useful techniques or even how large programs can be structured.

Owners also obstruct education. I have met bright students in computer science who have never seen the source code of a large program. They may be good at writing small programs, but they can't begin to learn the different skills of writing large ones if they can't see how others have done it.

In any intellectual field, one can reach greater heights by standing on the shoulders of others. But that is no longer generally allowed in the software field--you can only stand on the shoulders of the other people *in your own company*.

The associated psychosocial harm affects the spirit of scientific cooperation, which used to be so strong that scientists would cooperate even when their countries were at war. In this spirit, Japanese oceanographers abandoning their lab on an island in the Pacific carefully preserved their work for the invading U.S. Marines, and left a note asking them to take good care of it.

Conflict for profit has destroyed what international conflict spared. Nowadays scientists in many fields don't publish enough in their papers to enable others to replicate the experiment. They publish only enough to let readers marvel at how much they were able to do. This is certainly true in computer science, where the source code for the programs reported on is usually secret.
It Does Not Matter How Sharing Is Restricted
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I have been discussing the effects of preventing people from copying, changing and building on a program. I have not specified how this obstruction is carried out, because that doesn't affect the conclusion. Whether it is done by copy protection, or copyright, or licenses, or encryption, or ROM cards, or hardware serial numbers, if it *succeeds* in preventing use, it does harm.

Users do consider some of these methods more obnoxious than others. I suggest that the methods most hated are those that accomplish their objective.

Software Should be Free
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I have shown how ownership of a program--the power to restrict changing or copying it--is obstructive. Its negative effects are widespread and important. It follows that society shouldn't have owners for programs.

Another way to understand this is that what society needs is free software, and proprietary software is a poor substitute. Encouraging the substitute is not a rational way to get what we need.

Vaclav Havel has advised us to "Work for something because it is good, not just because it stands a chance to succeed." A business making proprietary software stands a chance of success in its own narrow terms, but it is not what is good for society.

Why People Will Develop Software
********************************

If we eliminate intellectual property as a means of encouraging people to develop software, at first less software will be developed, but that software will be more useful. It is not clear whether the overall delivered user satisfaction will be less; but if it is, or if we wish to increase it anyway, there are other ways to encourage development, just as there are ways besides toll booths to raise money for streets. Before I talk about how that can be done, first I want to question how much artificial encouragement is truly necessary.

Programming is Fun
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There are some lines of work that few will enter except for money;
road construction, for example. There are other fields of study and art in which there is little chance to become rich, which people enter for their fascination or their perceived value to society. Examples include mathematical logic, classical music, and archaeology; and political organizing among working people. People compete, more sadly than bitterly, for the few funded positions available, none of which is funded very well. They may even pay for the chance to work in the field, if they can afford to.

Such a field can transform itself overnight if it begins to offer the possibility of getting rich. When one worker gets rich, others demand the same opportunity. Soon all may demand large sums of money for doing what they used to do for pleasure. When another couple of years go by, everyone connected with the field will deride the idea that work would be done in the field without large financial returns. They will advise social planners to ensure that these returns are possible, prescribing special privileges, powers and monopolies as necessary to do so.

This change happened in the field of computer programming in the past decade. Fifteen years ago, there were articles on "computer addiction": users were "onlining" and had hundred-dollar-a-week habits. It was generally understood that people frequently loved programming enough to break up their marriages. Today, it is generally understood that no one would program except for a high rate of pay. People have forgotten what they knew fifteen years ago.

When it is true at a given time that most people will work in a certain field only for high pay, it need not remain true. The dynamic of change can run in reverse, if society provides an impetus. If we take away the possibility of great wealth, then after a while, when the people have readjusted their attitudes, they will once again be eager to work in the field for the joy of accomplishment.

The question, "How can we pay programmers?", becomes an easier question when we realize that it's not a matter of paying them a fortune. A mere living is easier to raise.

Funding Free Software

Institutions that pay programmers do not have to be software houses. Many other institutions already exist which can do this.

Hardware manufacturers find it essential to support software development even if they cannot control the use of the software. In 1970, much of their software was free because they did not consider restricting it. Today, their increasing willingness to join consortiums shows their realization that owning the software is not
what is really important for them.

Universities conduct many programming projects. Today, they often sell the results, but in the 1970s, they did not. Is there any doubt that universities would develop free software if they were not allowed to sell software? These projects could be supported by the same government contracts and grants which now support proprietary software development.

It is common today for university researchers to get grants to develop a system, develop it nearly to the point of completion and call that "finished", and then start companies where they really finish the project and make it usable. Sometimes they declare the unfinished version "free"; if they are thoroughly corrupt, they instead get an exclusive license from the university. This is not a secret; it is openly admitted by everyone concerned. Yet if the researchers were not exposed to the temptation to do these things, they would still do their research.

Programmers writing free software can make their living by selling services related to the software. I have been hired to port the GNU C compiler to new hardware, and to make user-interface extensions to GNU Emacs. (I offer these improvements to the public once they are done.) I also teach classes for which I am paid.

I am not alone in working this way; there is now a successful, growing corporation which does no other kind of work. Several other companies also provide commercial support for the free software of the GNU system. This is the beginning of the independent software support industry—an industry that could become quite large if free software becomes prevalent. It provides users with an option generally unavailable for proprietary software, except to the very wealthy.

New institutions such as the Free Software Foundation can also fund programmers. Most of the foundation's funds come from users buying tapes through the mail. The software on the tapes is free, which means that every user has the freedom to copy it and change it, but many nonetheless pay to get copies. (Recall that "free software" refers to freedom, not to price.) Some users order tapes who already have a copy, as a way of making a contribution they feel we deserve. The Foundation also receives sizable donations from computer manufacturers.

The Free Software Foundation is a charity, and its income is spent on hiring as many programmers as possible. If it had been set up as a business, distributing the same free software to the public for the same fee, it would now provide a very good living for its founder.

Because the Foundation is a charity, programmers often work for the
Foundation for half of what they could make elsewhere. They do this because we are free of bureaucracy, and because they feel satisfaction in knowing that their work will not be obstructed from use. Most of all, they do it because programming is fun. In addition, volunteers have written many useful programs for us. (Recently even technical writers have begun to volunteer.)

This confirms that programming is among the most fascinating of all fields, along with music and art. We don't have to fear that no one will want to program.

What Do Users Owe to Developers?

There is a good reason for users of software to feel a moral obligation to contribute to its support. Developers of free software are contributing to the users' activities, and it is both fair and in the long term interest of the users to give them funds to continue.

However, this does not apply to proprietary software developers, since obstructionism deserves a punishment rather than a reward.

We thus have a paradox: the developer of useful software is entitled to the support of the users, but any attempt to turn this moral obligation into a requirement destroys the basis for the obligation. A developer can either deserve a reward or demand it, but not both.

I believe that an ethical developer faced with this paradox must act so as to deserve the reward, but should also entreat the users for voluntary donations. Eventually the users will learn to support developers without coercion, just as they have learned to support public radio and television stations.

What Is Software Productivity?

If software were free, there would still be programmers, but perhaps fewer of them. Would this be bad for society?

Not necessarily. Today the advanced nations have fewer farmers than in 1900, but we do not think this is bad for society, because the few deliver more food to the consumers than the many used to do. We call this improved productivity. Free software would require far fewer programmers to satisfy the demand, because of increased software productivity at all levels:

* Wider use of each program that is developed.
* The ability to adapt existing programs for customization instead of starting from scratch.

* Better education of programmers.

* The elimination of duplicate development effort.

Those who object to cooperation because it would result in the employment of fewer programmers, are actually objecting to increased productivity. Yet these people usually accept the widely-held belief that the software industry needs increased productivity. How is this?

"Software productivity" can mean two different things: the overall productivity of all software development, or the productivity of individual projects. Overall productivity is what society would like to improve, and the most straightforward way to do this is to eliminate the artificial obstacles to cooperation which reduce it. But researchers who study the field of "software productivity" focus only on the second, limited, sense of the term, where improvement requires difficult technological advances.

Is Competition Inevitable?

Is it inevitable that people will try to compete, to surpass their rivals in society? Perhaps it is. But competition itself is not harmful; the harmful thing is *combat*.

There are many ways to compete. Competition can consist of trying to achieve ever more, to outdo what others have done. For example, in the old days, there was competition among programming wizards—competition for who could make the computer do the most amazing thing, or for who could make the shortest or fastest program for a given task. This kind of competition can benefit everyone, *as long as* the spirit of good sportsmanship is maintained.

Constructive competition is enough competition to motivate people to great efforts. A number of people are competing to be the first to have visited all the countries on Earth; some even spend fortunes trying to do this. But they do not bribe ship captains to strand their rivals on desert islands. They are content to let the best person win.

Competition becomes combat when the competitors begin trying to impede each other instead of advancing themselves—when "Let the best person win" gives way to "Let me win, best or not." Proprietary software is harmful, not because it is a form of competition, but because it is a form of combat among the citizens of our society.
Competition in business is not necessarily combat. For example, when two grocery stores compete, their entire effort is to improve their own operations, not to sabotage the rival. But this does not demonstrate a special commitment to business ethics; rather, there is little scope for combat in this line of business short of physical violence. Not all areas of business share this characteristic. Withholding information that could help everyone advance is a form of combat.

Business ideology does not prepare people to resist the temptation to combat the competition. Some forms of combat have been made banned with anti-trust laws, truth in advertising laws, and so on, but rather than generalizing this to a principled rejection of combat in general, executives invent other forms of combat which are not specifically prohibited. Society's resources are squandered on the economic equivalent of factional civil war.

"Why Don't You Move to Russia?"

In the United States, any advocate of other than the most extreme form of laissez-faire selfishness has often heard this accusation. For example, it is leveled against the supporters of a national health care system, such as is found in all the other industrialized nations of the free world. It is leveled against the advocates of public support for the arts, also universal in advanced nations. The idea that citizens have any obligation to the public good is identified in America with Communism. But how similar are these ideas?

Communism as was practiced in the Soviet Union was a system of central control where all activity was regimented, supposedly for the common good, but actually for the sake of the members of the Communist party. And where copying equipment was closely guarded to prevent illegal copying.

The American system of intellectual property exercises central control over distribution of a program, and guards copying equipment with automatic copying protection schemes to prevent illegal copying.

By contrast, I am working to build a system where people are free to decide their own actions; in particular, free to help their neighbors, and free to alter and improve the tools which they use in their daily lives. A system based on voluntary cooperation, and decentralization.

Thus, if we are to judge views by their resemblance to Russian Communism, it is the software owners who are the Communists.

The Question of Premises

""
I make the assumption in this paper that a user of software is no less important than an author, or even an author's employer. In other words, their interests and needs have equal weight, when we decide which course of action is best.

This premise is not universally accepted. Many maintain that an author's employer is fundamentally more important than anyone else. They say, for example, that the purpose of having owners of software is to give the author's employer the advantage he deserves—regardless of how this may affect the public.

It is no use trying to prove or disprove these premises. Proof requires shared premises. So most of what I have to say is addressed only to those who share the premises I use, or at least are interested in what their consequences are. For those who believe that the owners are more important than everyone else, this paper is simply irrelevant.

But why would a large number of Americans accept a premise which elevates certain people in importance above everyone else? Partly because of the belief that this premise is part of the legal traditions of American society. Some people feel that doubting the premise means challenging the basis of society.

It is important for these people to know that this premise is not part of our legal tradition. It never has been.

Thus, the Constitution says that the purpose of copyright is to "promote the progress of science and the useful arts." The Supreme Court has elaborated on this, stating in 'Fox Film vs. Doyal' that "The sole interest of the United States and the primary object in conferring the [copyright] monopoly lie in the general benefits derived by the public from the labors of authors."

We are not required to agree with the Constitution or the Supreme Court. (At one time, they both condoned slavery.) So their positions do not disprove the owner supremacy premise. But I hope that the awareness that this is a radical right-wing assumption rather than a traditionally recognized one will weaken its appeal.

Conclusion
**********

We like to think that our society encourages helping your neighbor; but each time we reward someone for obstructionism, or admire them for the wealth they have gained in this way, we are sending the opposite message.
Software hoarding is one form of our general willingness to disregard the welfare of society for personal gain. We can trace this disregard from Ronald Reagan to Jim Bakker, from Ivan Boesky to Exxon, from failing banks to failing schools. We can measure it with the size of the homeless population and the prison population. The antisocial spirit feeds on itself, because the more we see that other people will not help us, the more it seems futile to help them. Thus society decays into a jungle.

If we don't want to live in a jungle, we must change our attitudes. We must start sending the message that a good citizen is one who cooperates when appropriate, not one who is successful at taking from others. I hope that the free software movement will contribute to this: at least in one area, we will replace the jungle with a more efficient system which encourages and runs on voluntary cooperation.

-------- Footnotes --------

(1) The word "free" in "free software" refers to freedom, not to price; the price paid for a copy of a free program may be zero, or small, or (rarely) quite large.

(2) The issues of pollution and traffic congestion do not alter this conclusion. If we wish to make driving more expensive to discourage driving in general, it is disadvantageous to do this using toll booths, which contribute to both pollution and congestion. A tax on gasoline is much better. Likewise, a desire to enhance safety by limiting maximum speed is not relevant; a free access road enhances the average speed by avoiding stops and delays, for any given speed limit.

(3) One might regard a particular computer program as a harmful thing that should not be available at all, like the Lotus Marketplace database of personal information, which was withdrawn from sale due to public disapproval. Most of what I say does not apply to this case, but it makes little sense to argue for having an owner on the grounds that the owner will make the program less available. The owner will not make it *completely* unavailable, as one would wish in the case of a program whose use is considered destructive.

/*

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NOTES ON COPYRIGHTS AND LICENSES

Some terminology:

A "copyright notice" consists of one or a few lines of this format:
"Copyright (C) 2006, 2007 Free Software Foundation, Inc."

A "license notice" is a statement of permissions, and is usually much longer, eg the text "GNU Emacs is free software...".

Summary for the impatient:

1. Don't add code to Emacs written by someone other than yourself without thinking about the legal aspect. Even if the changes are trivial, consider if they combine with previous changes by the same author to make a non-trivial total. If so, make sure they have an assignment. If adding a whole file adjust the copyright statements in the file.

2. When installing code written by someone else, the ChangeLog entry should be in the name of the author of the code, not the person who installs it. Also use bzr commit's "--author" option. Do not install any of your own changes in the same commit.

3. With images, add the legal info to a README file in the directory containing the image.

4. If you add a lot of text to a previously trivial file that had no legal notices, consider if you should add a copyright statement.

5. Please don't just add an FSF copyright without checking that is the right thing to do.

Every non-trivial file distributed through the Emacs repository should be self-explanatory in terms of copyright and license. This includes
files that are not distributed in Emacs releases (for example, the admin/ directory), because the whole Emacs repository is publicly available.

The definition of triviality is a little vague, but a rule of thumb is that any file with less than 15 lines of actual content is trivial. If a file is auto-generated (eg ldefs-boot.el) from another one in the repository, then it does not really matter about adding a copyright statement to the generated file.

Legal advice says that we could, if we wished, put a license notice even in trivial files, because copyright law in general looks at the overall work as a whole. It is not _necessary_ to do so, and rms prefers that we do not. This means one needs to take care that trivial files do not grow and become non-trivial without having a license added. NB consequently, if you add a lot of text to a small file, consider whether your changes have made the file worthy of a copyright notice, and if so, please add one.

It can be helpful to put a reminder comment at the start of a trivial file, eg: "add a license notice if this grows to > 10 lines of code".

The years in the copyright notice should be updated every year (see file "years" in this directory). The PDF versions of refcards etc should display copyright notices (an exception to the rule about "generated" files), but these can just display the latest year. The full list of years should be kept in comments in the source file. If these are distributed in the repository, check in a regenerated version when the tex files are updated.

Copyright changes should be propagated to any associated repositories (eg Gnus, MH-E), but I think in every case this happens automatically (?).

All README (and other such text files) that are non-trivial should contain copyright statements and GPL license notices, exactly as .el files do (see e.g. README in the top-level directory). Before 2007, we used a simple, short statement permitting copying and modification provided legal notices were retained. In Feb 2007 we switched to the standard GPL text, on legal advice. Some older text files in etc/ should, however, keep their current licenses (see below for list).

For image files, the copyright and license details should be recorded in a README file in each directory with images. (Legal advice says that we need not add notices to each image file individually, if they allow for that.). It is recommended to use the word "convert" to describe the automatic process of changing an image from one format to another (http://lists.gnu.org/archive/html/emacs-devel/2007-02/msg00618.html).
When installing a file with an "unusual" license (after checking first it is ok), put a copy of the copyright and license in the file (if possible. It's ok if this makes the file incompatible with its original format, if it can still be used by Emacs), or in a README file in the relevant directory.

The vast majority of files are copyright FSF and distributed under the GPL. A few files (mainly related to language and charset support) are copyright AIST alone, or both AIST and FSF. (Contact Kenichi Handa with questions about legal issues in such files.) In all these cases, the copyright years in each file should be updated each year.

There are some exceptions to the points in the previous paragraph, and these are listed below for reference, together with any files where the copyright needs to be updated in "unusual" ways.

If you find any other such cases, please consult to check they are ok, and note them in this file. This includes missing copyright notices, and "odd" copyright holders. In most cases, individual authors should not appear in copyright statements. Either the copyright has been assigned (check copyright.list) to the FSF (in which case the original author should be removed and the year(s) transferred to the FSF); or else it is possible the file should not be in Emacs at all (please report!).

Note that it seems painfully clear that one cannot rely on commit logs, or even ChangeLogs, for older changes. People often installed changes from others, without recording the true authorship.

[For reference, most of these points were established via email with rms, 2007/1, "Copyright years".]

In March 2011, information on some files no longer included was removed. Consult older versions of this document if interested.]

lisp/version.el  # emacs-copyright
lib-src/ebrowse.c  # version
lib-src/etags.c  # print_version
lib-src/rcs2log  # Copyright
Cocoa/Emacs.base/Contents/Info.plist
Cocoa/Emacs.base/Contents/Resources/English.lproj/InfoPlist.strings
GNUstep/Emacs.base/Resources/Info-gnustep.plist
`set-copyright` in admin.el will do all the above.

aclocal.m4
configure
m4/*.m4
- copyright FSF, with unlimited permission to copy, distribute and modify

lib/Makefile.in
- copyright FSF, with MIT-like license

build-aux/install-sh
- this file is copyright MIT, which is OK. Leave the copyright alone.

d/pc/patch/Makefile.am
- leave the copyright alone. This is a GNU patch.

d/pc/patch/patch
- leave the copyright alone. This is a GNU patch.

configure
m4/*.m4
- copyright FSF, with unlimited permission to copy, distribute and modify

etc/refcards/*.tex
also update the \defyear macro for the latest year.

d/pc/patch/Makefile.am
- leave the copyright alone. This is a GNU patch.

d/pc/patch/patch
- leave the copyright alone. This is a GNU patch.

d/pc/patch/patch
- leave the copyright alone. This is a GNU patch.

d/pc/patch/patch
- leave the copyright alone. This is a GNU patch.

d/pc/patch/patch
- leave the copyright alone. This is a GNU patch.

d/pc/patch/patch
- leave the copyright alone. This is a GNU patch.

d/pc/patch/patch
- leave the copyright alone. This is a GNU patch.

d/pc/patch/patch
- leave the copyright alone. This is a GNU patch.

rms: "These are statements of opinion or testimony. Their licenses
should permit verbatim copying only. Please don't change the
licenses that they have. They are distributed with Emacs but they
are not part of Emacs."

rms: simple license is fine for this file

leim/CXTERM-DIC/4Corner.tit, ARRAY30.tit, CCDOSPY.tit, ECDICT.tit,
ETZY.tit, PY-b5.tit, Punct-b5.tit, Punct.tit, QJ-b5.tit, QJ.tit,
SW.tit, TONEPY.tit, ZOZY.tit
- leave the copyrights alone.

leim/MISC-DIC/CTLau-b5.html, CTLau.html, cangjie-table.b5, cangjie-table.cns,
pinyin.map, ziranma.cin
- leave the copyright alone.
Note that pinyin.map, ziranma.cin (and hence the generated
leim/quail/PY.el, ZIRANMA.el) are under GPLv1 or later.

leim/SKK-DIC/SKK-JISYO.L
ja-dic/ja-dic.el
(the latter is auto-generated from the former). Leave the copyright alone.

lib-src/etags.c
Copyright information is duplicated in etc/ETAGS.README. Update that
file too.

Until 2007 etags.c was described as being copyright FSF and Ken Arnold.
After some investigation in Feb 2007, then to the best of our
knowledge we believe that the original 1984 Emacs version was based
on the version in BSD4.2. See for example this 1985 post from Ken Arnold:
<http://groups.google.com/group/mod.sources/browse_thread/thread/ffe5e55845a640a9>
I have received enough requests for the current source to ctags
to post it. Here is the latest version (what will go out with
4.3, modulo any bugs fixed during the beta period). It is the
4.2 etags with recognition of yacc and lex tags added.

See also a 1984 version of ctags (no copyright) posted to net.sources:
<http://groups.google.com/group/net.sources/msg/21b3c21be12a98d>
Version of etags.c in emacs-16.56 duplicates comment typos.

Accordingly, in Feb 2007 we added a 1984 copyright for the
University of California and a revised BSD license. The terms of
this require that the full license details be available in binary
distributions - hence the file etc/ETAGS.README. The fact that the
--version output just says "Copyright <year> FSF" is apparently OK
from a legal point of view.

lisp/cedet/semantic/imenu.el
  in which Eric Ludlam established that the remaining contributions
  from authors other than himself were negligible.

lisp/play/tetris.el
- no special rules about the copyright. We note here that we believe
  (2007/1) there is no problem with our use of the name "tetris" or
  the concept.
rms: "My understanding is that game rules as such are not copyrightable."
rms: Legal advice is that we are ok and need not worry about this.
lisp/net/tramp.el
- there are also copyrights in the body of the file. Update these too.

lwlib/

rms (2007/02/17): "lwlib is not assigned to the FSF; we don't consider it part of Emacs. [...] Therefore non-FSF copyrights are ok in lwlib."

NB don't change the GPL version used for lwlib .c and .h files (see below).

FSF copyrights should only appear in files which have undergone non-trivial cumulative changes from the original versions in the Lucid Widget Library. NB this means that if you make non-trivial changes to a file with no FSF copyright, you should add one. Also, if changes are reverted to the extent that a file becomes basically the same as the original version, the FSF copyright should be removed.

In my (rgm) opinion, as of Feb 2007, all the non-trivial files differ significantly from the original versions, with the exception of lwlib-Xm.h. Most of the changes that were made to this file have subsequently been reverted. Therefore I removed the FSF copyright from this file (which is arguably too trivial to merit a notice anyway). I added FSF copyright to the following files which did not have them already: Makefile.in, lwlib-Xaw.c, lwlib-int.h (borderline), lwlib-utils.c (borderline), lwlib.c, lwlib.h.

Copyright years before the advent of public CVS in 2001 were those when I judged (from the CVS logs) that non-trivial amounts of change had taken place. I also adjusted the existing FSF years in xlwmenu.c, xlwmenu.h, and xlwmenuP.h on the same basis.

Note that until Feb 2007, the following files in lwlib were lacking notices: lwlib-int.h, lwlib.h, lwlib-Xaw.h, lwlib-Xlw.h, lwlib-utils.h.

The following files did not list a Lucid copyright: xlwmenu.h, xlwmenuP.h.

To the best of our knowledge, all the code files in lwlib were originally part of the Lucid Widget Library, even if they did not say so explicitly. For example, they were all present in Lucid Emacs 19.1 in 1992. The exceptions are the two Xaw files, which did not appear till Lucid Emacs 19.9 in 1994. The file lwlib-Xaw.h is too trivial to merit a copyright notice, but would presumably have the same one as lwlib-Xaw.c. We have been unable to find a true standalone version of LWL, if there was such a thing, to check definitively.

To clarify the situation, in Feb 2007 we added Lucid copyrights and
GPL notices to those files lacking either that were non-trivial, namely: lwlib-int.h, lwlib.h, xlwmenu.h, xlwmenuP.h. This represents our best understanding of the legal status of these files. We also clarified the notices in Makefile.in, which was originally the Makefile auto-generated from Lucid's Imakefile.

As of Feb 2007, the following files are considered too trivial for notices: lwlib-Xaw.h, lwlib-Xlw.h, lwlib-utils.h.

The version of lwlib/ first installed in Emacs seems to be the same as that used in Lucid Emacs 19.8 (released 6-sep-93); except the two Xaw files, which did not appear till Athena support was added in Lucid Emacs 19.9. In Lucid Emacs 19.1, all files were under GPLv1 or later, but by Lucid Emacs 19.8, lwlib.c and xlwmenu.c had been switched to v2 or later. These are the versions that were first installed in Emacs. So in GNU Emacs, these two files have been under v2 or later since 1994.

It seems that it was the intention of Lucid to use v1 or later (excepting the two files mentioned previously); so this is the license we have used when adding notices to code that did not have notices originally. Although we have the legal right to switch to v2 or later, rms prefers that we do not do so.

doc/*/doclicense.texi
- leave the copyright alone in this imported file.

doc/*.texi - All manuals should be under GFDL (but see below), and should include a copy of it, so that they can be distributed separately. faq.texi has a different license, for some reason no-one can remember.

doc/misc/mh-e.texi is dual-licensed (GPL and GFDL) per agreement with FSF (reconfirmed by rms Aug 25 2008). Discussion with licensing@fsf.org starting on Thu, 07 Aug 2003 with subject: "[gnu.org #58812] Changing license of MH-E manual"

msdos/is_exec.c, sigaction.c - these files are copyright DJ Delorie. Leave the copyrights alone. Leave the Eli Zaretskii copyright in is_exec.c alone. See the msdos/README file for the legal history of these files.

msdos/sed*.inp - These files are copyright FSF and distributed under an MIT-like license.
oldXMenu/
Keep the "copyright.h" method used by X11, rather than moving the licenses into the files. Note that the original X10.h did not use copyright.h, but had an explicit notice, which we retain.

If you make non-trivial changes to a file which does not have an FSF notice, add one and a GPL notice (as per Activate.c). If changes to a file are reverted such that it becomes essentially the same as the original X11 version, remove the FSF notice and GPL.

Only the files which differ significantly from the original X11 versions should have FSF copyright and GPL notices. At time of writing (Feb 2007), this is: Activate.c, Create.c, Internal.c. I (rgm) established this by diff'ing the current files against those in X11R1, and when I found significant differences looking in the ChangeLog for the years they originated (the CVS logs are truncated before 1999). I therefore removed the FSF notices (added in 200x) from the other files. There are some borderline cases IMO: AddSel.c, InsSel.c, XMakeAssoc.c, XMenu.h. For these I erred on the side of NOT adding FSF notices.

With regards to whether the files we have changed should have GPL added or not, rms says (2007-02-25, "oldXmenu issues"):

It does not make much difference, because oldXmenu is obsolete except for use in Emacs (and it is not normally used in Emacs any more either).

So, to make things simple, please put our changes under the GPL.

insque.c had no copyright notice until 2005. The version of insque.c added to Emacs 1992-01-27 is essentially the same as insremque.c added to glic three days later by Roland McGrath, with an FSF copyright and GPL, but no ChangeLog entry:
<http://sources.redhat.com/cgi-bin/cvsweb.cgi/~checkout~/libc/misc/insremque.c?rev=1.1&cvsroot=glibc>
To the best of his recollection, McGrath (who has a copyright assignment) was the author of this file (email from roland at frob.com to rms, 2007-02-23, "Where did insque.c come from?"). The FSF copyright and GPL in this file are therefore correct as far as we understand it.

Imakefile had no legal info in Feb 2007, but was obviously based on the X11 version (which also had no explicit legal info). As it was unused, I removed it. It would have the same MIT copyright as Makefile.in does now.
src/gmalloc.c
- contains numerous copyrights from the GNU C library. Leave them alone.

src/ndir.h
- see comments below. This file is OK to be released with Emacs 22, but we may want to revisit it afterwards.

** Some notes on resolved issues, for historical information only

etc/TERMS
rms: "surely written either by me or by ESR. (If you can figure out which year, I can probably tell you which.) Either way, we have papers for it." It was present in Emacs-16.56 (15-jul-85). rms: "Then I conclude it was written by me."

lisp/term/README
- had no copyright notice till Feb 2007. ChangeLog.3 suggests it was written by Eric Raymond. When asked by rms on 14 Feb 2007 he said:

    I don't remember writing it, but it reads like my prose and I believe I wrote the feature(s) it's describing. So I would have been the likeliest person to write it.

    Odds are that I did, but I'm not certain.

Accordingly, FSF copyright was added.

src/unexhp9k800.c
- briefly removed due to legal uncertainly Jan-Mar 2007. The relevant assignment is under "hp9k800" in copyright.list. File was written by John V. Morris at HP, and disclaimed by the author and HP. So this file is public domain.

lisp/progmodes/python.el
Dave Love alerted us to a potential legal problem:

On consultation with a lawyer, we found there was no problem:

** Issues that are "fixed" for the release of Emacs 22, but we may wish to revisit later in more detail
admin/check-doc-strings
File says it's in the public domain, but that might not make it so.

etc/e/eterm-color.ti
src/ndir.h
On legal advice from Matt Norwood, the following comment was added to these files in Feb/Mar 2007:

The code here is forced by the interface, and is not subject to copyright, constituting the only possible expression of the algorithm in this format.

With the addition of this notice, these files are OK for the upcoming Emacs-22 release. Post-release, we can revisit this issue and possibly add a list of all authors who have changed these files. (details in email from Matt Norwood to rms, 2007/02/03).

src/s/aix3-2.h, hpux8.h, hpux9.h, irix5-0.h, netbsd.h, usg5-4-2.h
[note some of these have since been merged into other files]
- all these (not obviously trivial) files were missing copyrights till Feb 2007, when FSF copyright was added. Matt Norwood advised:

For now, I think the best policy is to assume that we do have assignments from the authors (I recall many of these header files as having been originally written by rms), and to attach an FSF copyright with GPL notice. We can amend this if and when we complete the code audit. Any additions to these files by non-assigned authors are arguably "de minimis" contributions to Emacs: small changes or suggestions to a work that are subsumed in the main authors' copyright in the entire work.

Here is my (rgm) take on the details of the above files:

? irix5-0.h
I would say started non-trivial (1993, jimb, heavily based on irix4-0.h). A few borderline non-tiny changes since.

usg5-4-2.h
started non-trivial, but was heavily based on usg5-4.h, which was and is copyright FSF. only tiny changes since installed.

aix3-2.h, hpux8.h, hpux9.h, netbsd.h
started trivial, grown in tiny changes.

netbsd.h:
Roland McGrath said to rms (2007/02/17): "I don't really remember
anything about it. If I put it in without other comment, then probably
I wrote it myself."

Someone might want to tweak the copyright years (for dates before
2001) that I used in all these files.

Note: erring on the side of caution, I also added notices to some
files I thought might be considered non-trivial (if one includes
comment) in s:
  aix4-1.h hpux10.h irix6-5.h
  sol2.h

(everything with > 30 non-blank lines, which at least is _some_ kind of
system)

*** These are copyright issues that need not be fixed until after
  Emacs 22 is released (though if they can be fixed before, that is
  obviously good):

Is it OK to just 'bzr remove' a file for legal reasons, or is
something more drastic needed? A removed file is still available from
the repository, if suitable options are applied. (This issue obviously
does not affect a release).
  rms: will ask lawyer

Make sure that all files with non-standard copyrights or licenses are
noted in this file.

REMOVED etc/gnu.xpm, nt/icons/emacs21.ico, nt/icons/sink.ico
  - Restore if find legal info. emacs21.ico is not due to Davenport.
    Geoff Voelker checked but could not find a record of where it came
    from.

etc/images
  Image files from GTK, Gnome are under GPLv2 (no "or later"?). RMS will
  contact image authors in regards to future switch to v3.

etc/TUTORIAL* (translations)
  switch to GPL (see english TUTORIAL)
  rms: "We can leave the TUTORIAL translations alone until their
  maintainers update them."
Can adapt short license text from end of GPL translations at:
http://www.gnu.org/licenses/translations.html
Only a few sentences around the license notice need changing from
previous version.
Done: TUTORIAL.eo

*** These are copyright issues still to be addressed:
None known.

** NOTES ON RELICENSING TO GPL3

The EMACS_22_BASE branch was changed to GPLv3 (or later) 2007/07/25.

Some notes:

1. There are some files in the Emacs tree which are not part of Emacs (eg
those included from Gnulib). These are all copyright FSF and (at time
of writing) GPL >= 2. rms says may as well leave the licenses of these
alone (may import them from Gnulib again). These are:

    Gnulib:
    build-aux/compile
    build-aux/config.guess
    build-aux/config.sub
    build-aux/depcomp
    build-aux/missing
    build-aux/move-if-change
    build-aux/snippet/_Noreturn.h
    build-aux/snippet/arg-nonnull.h
    build-aux/snippet/c++defs.h
    build-aux/snippet/warn-on-use.h
    doc/man/texinfo.tex
    lib/*.[ch]
    lib/gnulib.mk
    src/gmalloc.c
    src/termcap.c
    src/tparam.c

    Note _not_ included in the above are src/regex.{c,h} (rms: "That
forked version is only in Emacs, so definitely relicense that."), and
oldXMenu/insque.c (rms: "We wrote that specifically for Emacs, so
definitely relicense that.").

2. The files that are copyright FSF and AIST, or AIST alone, should be
and were updated, ditto the oldXMenu files with FSF copyright, and
msdos/is_exec.c and sigaction.c.

3. lwlib/

Files originally in Lucid Widget Library were left alone (excludes
ChangeLog, etc), ie remain under GPL v1 or later, or v2 or later.
(rms: "We may as well leave this alone, since we are never going
to change it much.")

4. There are some files where the FSF holds no copyright. These were
left alone:

leim/MISC-DIC/CTLau-b5.html  >= v2
leim/MISC-DIC/CTLau.html     >= v2
(above included in lisp/international/titdic-cnv.el)
leim/MISC-DIC/pinyin.map      >= v1
leim/MISC-DIC/ziranma.cin     >= v1
leim/SKK-DIC/SKK-JISYO.L      >= v2
leim/SKK-DIC/README          >= v2
leim/ja-dic/ja-dic.el        >= v2

5. At time of writing, some non-Emacs icons included from Gnome remain
under GPLv2 (no "or later"). See:

   etc/images/gnus/README
   etc/images/mail/README
   etc/images/README
   nt/icons/README

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<DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN">
<table>
<thead>
<tr>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unicode Copyright</td>
</tr>
<tr>
<td>Restricted Rights Legend</td>
</tr>
<tr>
<td>Warranties &amp; Disclaimers</td>
</tr>
<tr>
<td>Waiver of Damages</td>
</tr>
<tr>
<td>Trademarks &amp; Logos</td>
</tr>
<tr>
<td>Miscellaneous</td>
</tr>
<tr>
<td>Data Files and Software License Agreement (Exhibit 1)</td>
</tr>
</tbody>
</table>

Related Links

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<tr>
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</tr>
</table>

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@end example

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

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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.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use 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.

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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 "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 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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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
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.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. 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:

a) The modified work must itself be a software library.

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
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.

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.

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
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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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Library is used in it and that the Library and its use are covered by
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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.
7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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   b) 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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These requirements apply to the modified work as a whole. If
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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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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,
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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
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use both them and the Library together in an executable that you
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/* Definitions for BSD assembler syntax for Intel 386
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 adapted to BSD conventions for symbol names and debugging.)
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/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using underscores, we are using prefix `.s' to identify labels that should be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "\t.byte\\n"
#define ASM_SHORT "\t.word\\n"
#define ASM_LONG "\t.long\\n"
#define ASM_QUAD "\t.quad\\n" /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS */
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) 

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line that says to advance the location counter by SIZE bytes. */

#define ASM_OUTPUT_SKIP(FILE, SIZE)  
   fprintf (FILE, "\t.space "HOST_WIDE_INT_PRINT_UNSIGNED"\\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED) 
   ( fputs ("\t.comm ", (FILE)),
   assemble_name ((FILE), (NAME)),
   fprintf ((FILE), ",%um", (int)(ROUNDED)))

/* This says how to output an assembler line to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED) 
   ( fputs ("\t.lcomm ", (FILE)),
   assemble_name ((FILE), (NAME)),
   fprintf ((FILE), ",%um", (int)(ROUNDED)))
fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT)  
    ( fputs (".lcomm ", (FILE)),
        assemble_name ((FILE), (NAME)),
        fprintf ((FILE), ",%u,\%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line  
that says to advance the location counter  
to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE,LOG)  
    if ((LOG)!=0) fprintf ((FILE), "\t.align %d\n", (LOG))

/* This is how to store into the string BUF  
the symbol_ref name of an internal numbered label where  
PREFIX is the class of label and NUM is the number within the class.  
This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)  
    sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */

#define USER_LABEL_PREFIX "_"  

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

@ignore
@c Set file name and title for man page.
@setfilename gfdl
@settitle GNU Free Documentation License
@c man begin SEEALSO
gpl(7), fsf-funding(7).
@c man end
@c man begin COPYRIGHT
@uref{http://fsf.org/}
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@example

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

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@example

program Copyright (C) year name of author  

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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.
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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(aggc@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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#!/usr/bin/python
#
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#
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# so that they have the form:
#
#   Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
directories, including those that haven't been approved. So:

# update-copyright.pl --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
# update-copyright.pl --this-year libjava
#
# would run the script on just libjava/.
#
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.

import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__(self):
        self.num_errors = 0

def report(self, filename, string):
    if filename:
        string = filename + ': ' + string
    sys.stderr.write(string + '
')
    self.num_errors += 1

def ok(self):
    return self.num_errors == 0

class GenericFilter:
    def __init__(self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set(['
            # Skip licence files.
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
            'COPYING3.LIB',
            ...])
def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile ('\t')
    return None

def skip_file (self, dir, filename):
    if filename in self.skip_files:
        return True
(base, extension) = os.path.splitext(os.path.join(dir, filename))
if extension in self.skip_extensions:
    return True

if extension == '.in':
    # Skip .in files produced by automake.
    if os.path.exists(base + '.am'):
        return True

    # Skip files produced by autogen
    if (os.path.exists(base + '.def')
        and os.path.exists(base + '.tpl')):
        return True

    # Skip configure files produced by autoconf
    if filename == 'configure':
        if os.path.exists(base + '.ac'):
            return True
        if os.path.exists(base + '.in'):
            return True

return False

def skip_dir(self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file(self, dir, filename):
    if filename in self.fossilised_files:
        return True

    # Only touch current current ChangeLogs.
    if filename != 'ChangeLog' and filename.find('ChangeLog') >= 0:
        return True
    return False

def by_package_author(self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__(self, errors):
        self.errors = errors

        # Characters in a range of years. Include '.' for typos.
        ranges = '[0-9][?][-0-9,.\s]\s+and\s+[0-9]'

        # Non-whitespace characters in a copyright holder's name.
        name = '[\\w.-]'
self.year_re = re.compile('[0-9]+')

# Matches part of a year or copyright holder.
self.continuation_re = re.compile(ranges + '|' + name)

# Matches a full copyright notice:
self.copyright_re = re.compile(
    # 1: 'Copyright (C)', etc.
    '(\[Cc\]opyright\s+\((\[Cc\])\))'  
    '\[[Cc]opyright\s+%s'  
    '\[[Cc]opyright\s+&copy;'  
    '\[[Cc]opyright\s+@copyright\{\}''
    '@set\s+copyright[\w-]+)'  

    # 2: the years. Include the whitespace in the year, so that
    # we can remove any excess.
    '(\s*(?:' + ranges + ',?  
    '|@value\{[^\}]*\})\s*)'  
    # 3: 'by ', if used
    '(by\s+)'?

    # 4: the copyright holder. Don't allow multiple consecutive
    # spaces, so that right-margin gloss doesn't get caught
    # (e.g. gnat_ugn.texi).
    '(' + name + '(?:' + name + ')\*)?

# A regexp for notices that might have slipped by. Just matching
# 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile('copyright.*[0-9][0-9]',
    re.IGNORECASE)

self.comment_re = re.compile('#+|[*]+|;+|%+|//+|@c |dnl ')

self.holders = {'@copying': '@copying'}
self.holder_prefixes = set()

# True to 'quilt add' files before changing them.
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be ', '.
self.separator = ','

def add_package_author(self, holder, canon_form = None):
    if not canon_form:
canon_form = holder
self.holders[holder] = canon_form
index = holder.find (" ")
while index >= 0:
    self.holder_prefixes.add (holder[:index])
    index = holder.find (" ", index + 1)

def add_external_author (self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__ (self, year):
        self.year = year

    def __str__ (self):
        return 'unrecognised year: ' + self.year

def parse_year (self, string):
    year = int (string)
    if len (string) == 2:
        if year > 70:
            return year + 1900
        elif len (string) == 4:
            return year
        raise self.BadYear (string)

    def year_range (self, years):
        year_list = [self.parse_year (year)
                     for year in self.year_re.findall (years)]
        assert len (year_list) > 0
        return (min (year_list), max (year_list))

    def set_use_quilt (self, use_quilt):
        self.use_quilt = use_quilt

    def include_year (self, year):
        assert not self.max_year
        self.max_year = year

def canonicalise_years (self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith ('@value '):
        return years

    (min_year, max_year) = self.year_range (years)

    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file (dir, filename):
max_year = max (max_year, self.max_year)

# Use a range.
if min_year == max_year:
    return '%d' % min_year
else:
    return '%d-%d' % (min_year, max_year)

def strip_continuation (self, line):
    line = line.lstrip()
    match = self.comment_re.match (line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete (self, match):
    holder = match.group (4)
    return (holder
            and (holder not in self.holder_prefixes
                 or holder in self.holders))

def update_copyright (self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join (dir, filename)

    intro = match.group (1)
    if intro.startswith ('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end (2):].strip()
        if after_years != ':
            self.errors.report (pathname,
                'trailing characters in @set: ' + after_years)
            return (False, orig_line, next_line)
    else:
        # If it looks like the copyright is incomplete, add the next line.
        while not self.is_complete (match):
            try:
                next_line = file.next()
            except StopIteration:
                break

            # If the next line doesn't look like a proper continuation,
            # assume that what we've got is complete.
            continuation = self.strip_continuation (next_line)
            if not self.continuation_re.match (continuation):
                break
# Merge the lines for matching purposes.
orig_line += next_line
line = line.rstrip() + ' ' + continuation
next_line = None

# Rematch with the longer line, at the original position.
match = self.copyright_re.match (line, match.start())
assert match

holder = match.group (4)

# Use the filter to test cases where markup is getting in the way.
if filter.by_package_author (dir, filename):
    assert holder not in self.holders

elif not holder:
    self.errors.report (pathname, 'missing copyright holder')
    return (False, orig_line, next_line)

elif holder not in self.holders:
    self.errors.report (pathname,
                       'unrecognised copyright holder: ' + holder)
    return (False, orig_line, next_line)
else:
    # See whether the copyright is associated with the package
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start (4)]
            + canon_form
            + line[match.end (4):])

    # Remove any 'by'
    line = line[:match.start (3)] + line[match.end (3):]

    # Update the copyright years.
    years = match.group (2).strip()
    try:
        canon_form = self.canonicalise_years (dir, filename, filter, years)
    except self.BadYear as e:
        self.errors.report (pathname, str (e))
    return (False, orig_line, next_line)
line = (line[:match.start (2)]
    + ' ' + canon_form + self.separator
    + line[match.end (2):])

    # Use the standard (C) form.
if intro.endswith ('right'):
    intro += ' (C)'
elif intro.endswith ('(c)'):
    intro = intro[:-3] + '(C)'
line = line[:match.start (1)] + intro + line[match.end (1):]

    # Strip trailing whitespace
line = line.rstrip() + '\n'

return (line != orig_line, line, next_line)

def process_file (self, dir, filename, filter):
    pathname = os.path.join (dir, filename)
    if filename.endswith ('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove (pathname)
        except OSError:
            pass
        return
    lines = []
    changed = False
    line_filter = filter.get_line_filter (dir, filename)
    with open (pathname, 'r') as file:
        prev = None
        for line in file:
            while line:
                next_line = None
                # Leave filtered-out lines alone.
                if not (line_filter and line_filter.match (line)):
                    match = self.copyright_re.search (line)
                    if match:
                        res = self.update_copyright (dir, filename, filter,
                            line, match)
                        (this_changed, line, next_line) = res
                        changed = changed or this_changed
                # Check for copyright lines that might have slipped by.
                elif self.other_copyright_re.search (line):
                    self.errors.report (pathname,
                        'unrecognised copyright: %s'
                        % line.strip())
lines.append (line)
line = next_line
# If something changed, write the new file out.
if changed and self.errors.ok():
tmp_pathname = pathname + '.tmp'
with open (tmp_pathname, 'w') as file:
for line in lines:
file.write (line)
if self.use_quilt:
subprocess.call (['quilt', 'add', pathname])
os.rename (tmp_pathname, pathname)
def process_tree (self, tree, filter):
for (dir, subdirs, filenames) in os.walk (tree):
# Don't recurse through directories that should be skipped.
for i in xrange (len (subdirs) - 1, -1, -1):
if filter.skip_dir (dir, subdirs[i]):
del subdirs[i]
# Handle the files in this directory.
for filename in filenames:
if filter.skip_file (dir, filename):
sys.stdout.write ('Skipping %s\n'
% os.path.join (dir, filename))
else:
self.process_file (dir, filename, filter)
class CmdLine:
def __init__ (self, copyright = Copyright):
self.errors = Errors()
self.copyright = copyright (self.errors)
self.dirs = []
self.default_dirs = []
self.chosen_dirs = []
self.option_handlers = dict()
self.option_help = []
self.add_option ('--help', 'Print this help', self.o_help)
self.add_option ('--quilt', '"quilt add" files before changing them',
self.o_quilt)
self.add_option ('--this-year', 'Add the current year to every notice',
self.o_this_year)
def add_option (self, name, help, handler):
self.option_help.append ((name, help))
self.option_handlers[name] = handler

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def add_dir(self, dir, filter=GenericFilter()):
    self.dirs.append(((dir, filter))

def o_help(self, option=None):
    sys.stdout.write(’Usage: %s [options] dir1 dir2...

   ’ % sys.argv[0])
    format = ’%-15s %s
    ’
    for (what, help) in self.option_help:
        sys.stdout.write(format % (what, help))
    sys.stdout.write(’\nDirectories:\n’)
    format = ’%-25s’
    i = 0
    for (dir, filter) in self.dirs:
        i += 1
        if i % 3 == 0 or i == len(self.dirs):
            sys.stdout.write(dir + ’\n’)
        else:
            sys.stdout.write(format % dir)
    sys.exit(0)

def o_quilt(self, option):
    self.copyright.set_use_quilt(True)

def o_this_year(self, option):
    self.copyright.include_year(time.localtime().tm_year)

def main(self):
    for arg in sys.argv[1:]:
        if arg[1:] != ’:
            self.chosen_dirs.append(arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg](arg)
        else:
            self.errors.report(None, ’unrecognised option: ’ + arg)
    if self.errors.ok():
        if len(self.chosen_dirs) == 0:
            self.chosen_dirs = self.default_dirs
        if len(self.chosen_dirs) == 0:
            self.o_help()
        else:
            for chosen_dir in self.chosen_dirs:
                canon_dir = os.path.join(chosen_dir, ”)
                count = 0
                for (dir, filter) in self.dirs:
                    if (dir + os.sep).startswith(canon_dir):
                        count += 1
                self.copyright.process_tree(dir, filter)
if count == 0:
    self.errors.report (None, 'unrecognised directory: '
    + chosen_dir)
sys.exit (0 if self.errors.ok() else 1)

#---------------------------------------------------------------

class TopLevelFilter (GenericFilter):
    def skip_dir (self, dir, subdir):
        return True

class ConfigFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
    def skip_file (self, dir, filename):
        if filename.endswith ('.m441):
            pathname = os.path.join (dir, filename)
            with open (pathname) as file:
                # Skip files imported from gettext.
                if file.readline().find ('gettext-') >= 0:
                    return True
            return GenericFilter.skip_file (self, dir, filename)

class GCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
        self.skip_files |= set ([
            # Not part of GCC
            'math-68881.h',
        ])
        self.skip_dirs |= set ([
            # Better not create a merge nightmare for the GNAT folks.
            'ada',
            # Handled separately.
            'testsuite',
        ])
        self.skip_extensions |= set ([
            # Maintained by the translation project.
            '.po',
            # Automatically-generated.
            '.pot',
        ])
self.fossilised_files |= set([
    # Old news won't be updated.
    'ONEWS',
])

class TestsuiteFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set([
            # Don't change the tests, which could be woend by anyone.
            '.c',
            '.C',
            '.cc',
            '.h',
            '.hs',
            '.f',
            '.f90',
            '.go',
            '.inc',
            '.java',
        ])

    def skip_file (self, dir, filename):
        # g++.niklas/README contains historical copyright information
        # and isn't updated.
        if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
            return True
        return GenericFilter.skip_file (self, dir, filename)

class LibCppFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set([
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ])

class LibGCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set([
            ])

        self.skip_dirs |= set([
            ])

        def skip_file (self, dir, filename):
            # g++.niklas/README contains historical copyright information
            # and isn't updated.
            if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
                return True
            return GenericFilter.skip_file (self, dir, filename)
class LibJavaFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set (
            # Handled separately.
            'testsuite',

            # Not really part of the library
            'contrib',

            # Imported from upstream
            'classpath',
            'libltdl',
        )

    def get_line_filter (self, dir, filename):
        if filename == 'NameDecoder.h':
            return re.compile ('.*NAME_COPYRIGHT')
        if filename == 'ICC_Profile.h':
            return re.compile ('.*icSigCopyrightTag')
        return GenericFilter.get_line_filter (self, dir, filename)

class LibMudflapFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set (
            # Handled separately.
            'testsuite',
        )

class LibStdCxxFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set (
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
        )

        self.skip_dirs |= set (
            # Contains automatically-generated sources.
            'html',
        )
# The testsuite data files shouldn't be changed.
'data',

# Contains imported images
'images',
]

self.own_files |= set([
    # Contains markup around the copyright owner.
    'spine.xml',
])

def get_line_filter (self, dir, filename):
    if filename == 'boost_concept_check.h':
        return re.compile ('// \(C\) Copyright Jeremy Siek')
    return GenericFilter.get_line_filter (self, dir, filename)

class GCCCopyright (Copyright):
    def __init__ (self, errors):
        Copyright.__init__ (self, errors)

        canon_fsf = 'Free Software Foundation, Inc.'
        self.add_package_author ('Free Software Foundation', canon_fsf)
        self.add_package_author ('Free Software Foundation.', canon_fsf)
        self.add_package_author ('Free Software Foundation Inc.', canon_fsf)
        self.add_package_author ('Free Software Foundation, Inc', canon_fsf)
        self.add_package_author ('The Free Software Foundation', canon_fsf)
        self.add_package_author ('The Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author ('Software Foundation, Inc.', canon_fsf)

        self.add_external_author ('ARM')
        self.add_external_author ('AdaCore')
        self.add_external_author ('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
        self.add_external_author ('Cavium Networks.')
        self.add_external_author ('Faraday Technology Corp.')
        self.add_external_author ('Florida State University')
        self.add_external_author ('Greg Colvin and Beman Dawes.')
        self.add_external_author ('Hewlett-Packard Company')
        self.add_external_author ('Information Technology Industry Council.')
        self.add_external_author ('James Theiler, Brian Gough')
        self.add_external_author ('Makoto Matsumoto and Takuji Nishimura,')
        self.add_external_author ('National Research Council of Canada.')
        self.add_external_author ('Peter Dimov and Multi Media Ltd.')
        self.add_external_author ('Peter Dimov')
        self.add_external_author ('Pipeline Associates, Inc.')
        self.add_external_author ('Regents of the University of California.')
class GCCCmdLine (CmdLine):
    def __init__ (self):
        CmdLine.__init__ (self, GCCCopyright)

        self.add_dir ('.', TopLevelFilter())
        # boehm-gc is imported from upstream.
        self.add_dir ('config', ConfigFilter())
        # contrib isn't really part of GCC.
        self.add_dir ('fixincludes')
        self.add_dir ('gcc', GCCFilter())
        self.add_dir (os.path.join ('gcc', 'testsuite'), TestsuiteFilter())
        self.add_dir ('gnattools')
        self.add_dir ('include')
        self.add_dir ('libada')
        self.add_dir ('libatomic')
        self.add_dir ('libbacktrace')
        self.add_dir ('libcpp', LibCppFilter())
        self.add_dir ('libgcc', LibGCCFilter())
        self.add_dir ('libgfortran')
        self.add_dir ('libgomp')
        self.add_dir ('libiberty')
        self.add_dir ('libitm')
        self.add_dir ('libjava', LibJavaFilter())
        self.add_dir (os.path.join ('libjava', 'testsuite'), TestsuiteFilter())
        self.add_dir ('libmudflap', LibMudflapFilter())
        self.add_dir (os.path.join ('libmudflap', 'testsuite'), TestsuiteFilter())
        self.add_dir ('libobjc')
        self.add_dir ('libquadmath')
        # libsanitiser is imported from upstream.
        self.add_dir ('libssp')
        self.add_dir (os.path.join ('libstdc++v3', 'LibStdCxxFilter'))
        self.add_dir (os.path.join ('lto-plugin'))
        # zlib is imported from upstream.
self.default_dirs = [
    'gcc',
    'libada',
    'libatomic',
    'libbacktrace',
    'libcpp',
    'libdecnumber',
    'libgcc',
    'libgfortran',
    'libgomp',
    'libitm',
    'libmudflap',
    'libobjc',
    'libstdc++-v3',
]

GCCCmdLine().main()

<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<!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">
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<meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
<meta name="generator" content="DocBook XSL-NS Stylesheets V1.78.1" />
<meta name="keywords" content="ISO C++, library" />
<meta name="keywords" content="ISO C++, runtime, library" />
<link rel="home" href="/" />
<link rel="prev" href="status.html" title="Chapter1.Status" />
<link rel="next" href="bugs.html" title="Bugs" />
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<table width="100%" summary="Navigation header">
<tr><th colspan="3" align="center">License</th></tr>
<tr><td width="20%" align="left"><a accesskey="p" href="status.html" title="Prev">Prev</a></td>
<th width="60%" align="center">Chapter1.Status</th>
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<hr/>
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package gnu.classpath.tools.taglets;

import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.javadoc.Tag;

/**
 * A simple Taglet which handles Copyright information.
 */
public class CopyrightTaglet implements Taglet {

    private static final String NAME = "copyright";
    private static final String HEADER = "Copyright:";

    public String getName() {
        return NAME;
    }

    public boolean inField() {
        return true;
    }

    public boolean inConstructor() {
        return true;
    }

    public boolean inMethod() {
        return true;
    }

}
public boolean inOverview() {
return true;
}
public boolean inPackage() {
return true;
}
public boolean inType() {
return true;
}
public boolean isInlineTag() {
return false;
}
public static void register(Map tagletMap) {
CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
}
public String toString(Tag tag) {
return toString(new Tag[] { tag });
}
public String toString(Tag[] tags) {
if (tags.length == 0) {
return null;
}
else {
boolean haveValidTag = false;
for (int i = 0; i < tags.length && !haveValidTag; ++i) {
if (tags[i].text().length() > 0) {
haveValidTag = true;
}
}
if (haveValidTag) {
StringBuffer result = new StringBuffer();
result.append("<dl>");
for (int i = 0; i < tags.length; i++) {
if (tags[i].text().length() > 0) {
result.append("<dt><i>Copyright &#169; " + tags[i].text() + "</i></dt>");
}
}
result.append("</dl>");
return result.toString();

Open Source Used In PI 3.5.1 3.5.1

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import java.io.Serializable;

/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission. A permission consists of a permission name
 * and optionally a list of actions that relate to the permission. The
 * actual meaning of the name of the permission is defined only in the
 * context of a subclass. It may name a resource to which access permissions
 * are granted (for example, the name of a file) or it might represent
 * something else entirely. Similarly, the action list only has meaning
 * within the context of a subclass. Some permission names may have no
 * actions associated with them. That is, you either have the permission
 * or you don't.
 *<p>The most important method in this class is <code>implies</code>. This
 * checks whether if one has this permission, then the specified
 * permission is also implied. As a conceptual example, consider the
 * permissions "Read All Files" and "Read File foo". The permission
 * "Read All Files" implies that the caller has permission to read the
 * file foo.
 *<p>&lt;code&gt;Permission&lt;/code&gt;'s must be immutable - do not change their
 * state after creation.
 *<p>@author Aaron M. Renn (arenn@urbanophile.com)
 *<p>@see Permissions
 *<p>@see PermissionCollection
 *<p>@since 1.1
 *<p>@status updated to 1.4
 */
public abstract class Permission implements Guard, Serializable {

  /**
   * Compatible with JDK 1.1+.
   */
  private static final long serialVersionUID = -5636570222231596674L;

  /**
   * This is the name assigned to this permission object.
   *
   * @serial the name of the permission
   */
  private String name;

  /**
   * Create an instance with the specified name.
   *
   * @param name the permission name
   */
public Permission(String name)
{
    this.name = name;
}

/**
 * This method implements the <code>Guard</code> interface for this class.
 * It calls the <code>checkPermission</code> method in
 * <code>SecurityManager</code> with this <code>Permission</code> as its
 * argument. This method returns silently if the security check succeeds
 * or throws an exception if it fails.
 * 
 * @param obj the <code>Object</code> being guarded - ignored by this class
 * @throws SecurityException if the security check fails
 * @see GuardedObject
 * @see SecurityManager#checkPermission(Permission)
 */
public void checkGuard(Object obj)
{
    SecurityManager sm = System.getSecurityManager();
    if (sm != null)
        sm.checkPermission(this);
}

/**
 * This method tests whether this <code>Permission</code> implies that the
 * specified <code>Permission</code> is also granted.
 * 
 * @param perm the <code>Permission</code> to test against
 * @return true if perm is implied by this
 */
public abstract boolean implies(Permission perm);

/**
 * Check to see if this object equals obj. Use <code>implies</code>, rather
 * than <code>equals</code>, when making access control decisions.
 * 
 * @param obj the object to compare to
 * @return a hash value
 */
/**
* Get the name of this <code>Permission</code>.
*
* @return the name
*/
public final String getName()
{
    return name;
}

/**
* This method returns the list of actions for this <code>Permission</code>
* as a <code>String</code>. The string should be in canonical order, for
* example, both <code>new FilePermission(f, "write,read")</code> and
* <code>new FilePermission(f, "read,write")</code> have the action list
* "read,write".
*
* @return the action list for this <code>Permission</code>
*/
public abstract String getActions();

/**
* This method returns an empty <code>PermissionCollection</code> object
* that can store permissions of this type, or <code>null</code> if no
* such collection is defined. Subclasses must override this to provide
* an appropriate collection when one is needed to accurately calculate
* <code>implies</code>.
*
* @return a new <code>PermissionCollection</code>
*/
public PermissionCollection newPermissionCollection()
{
    return null;
}

/**
* This method returns a <code>String</code> representation of this
* <code>Permission</code> object. This is in the format:
* <code> cara getClass().getName() + ' ' + getName() + ' ' + getActions
* + ')</code>.
*
* @return this object as a <code>String</code>
*/
public String toString()
{
CPStringBuilder string = new CPStringBuilder();

string = string.append('(');
string = string.append(getClass().getName());
string = string.append(' ');
string = string.append(getName());

if (!(getActions().equals("")))
{
    string = string.append(' ');
    string = string.append(getActions());
}

string = string.append(')');
return string.toString();
}
} // class Permission

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package java.security.acl;

/**
 * This interface provides information about a permission that can be
 * granted. Note that this is <em>not</em> the same as the class
 * <code>java.security.Permission</code>.
 *
 * @version 0.0
 *
 * @author Aaron M. Renn (arenn@urbanophile.com)
 */
public interface Permission
{
 /**
 * This method tests whether or not a specified <code>Permission</code>
 * (passed as an <code>Object</code>) is the same as this permission.
 *
 * @param perm The permission to check for equality
 *
 * @return <code>true</code> if the specified permission is the same as this one, <code>false</code> otherwise
 */
boolean equals (Object perm);

/**
 * This method returns this <code>Permission</code> as a <code>String</code>.
 *
 * @return A <code>String</code> representing this permission.
 */
String toString();
}

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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 (dossier@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(acg@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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Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
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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 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.

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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".)

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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.

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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
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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.

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Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for
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Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

@heading TERMS AND CONDITIONS

@enumerate 0
@item Definitions.

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``Copyright'' also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

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To ``modify'' a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a ``modified version'' of the earlier work or a work ``based on'' the earlier work.

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@item Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

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@end enumerate

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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.

@example
@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.

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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 example

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:

@example
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 example

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.
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.

GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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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.

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"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.

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@cindex LGPL, Lesser General Public License
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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 Lesser General Public License because it does to protect the user's freedom than the ordinary General Public License. It also provides other free software developers 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.
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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

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- 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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@end enumerate

@iftex
@heading END OF TERMS AND CONDITIONS
@end iftex
@ifinfo
@center END OF TERMS AND CONDITIONS
@end ifinfo

@page
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redistribution under these terms (or, alternatively, under the terms of the
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To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source file to most effectively
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@smlalexample
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`Frob' (a library for tweaking knobs) written by James Random Hacker.

Ty Coon, President of Vice

That's all there is to it!

1.533 gcc-c++ 4.8.5 :28.el7_5.1

1.533.1 Available under license :

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Version 2.1, February 1999

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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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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.

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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
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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.)

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a) 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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Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

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b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

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Version 3.1, 31 March 2009

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<table>
<thead>
<tr>
<th>Program</th>
<th>Directory</th>
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<tr>
<td>mach_override</td>
<td>lib/interception/mach_override</td>
</tr>
</tbody>
</table>

/* Definitions for BSD assembler syntax for Intel 386
 (actually AT&T syntax for insns and operands,
 adapted to BSD conventions for symbol names and debugging.)
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<http://www.gnu.org/licenses/>. */

/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using
 underscores, we are using prefix `.s' to identify labels that should
 be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t" /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */
/* This is how to output an assembler line
   that says to advance the location counter by SIZE bytes. */

#define ASM_OUTPUT_SKIP(FILE,SIZE) \
fprintf (FILE, "\t.space "HOST_WIDE_INT_PRINT_UNSIGNED"\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line
   to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED) \
( fputs (".comm ", (FILE)),
 assemble_name ((FILE), (NAME)),
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line
   to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED) \
( fputs (".lcomm ", (FILE)),
 assemble_name ((FILE), (NAME)),
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT) \
( fputs (".lcomm ", (FILE)),
 assemble_name ((FILE), (NAME)),
 fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line
   that says to advance the location counter
to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE,LOG)\nif ((LOG)!=0) fprintf ((FILE), "\t.align %d\n", (LOG))

/* This is how to store into the string BUF
   the symbol_ref name of an internal numbered label where
PREFIX is the class of label and NUM is the number within the class.
This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)\nsprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */
/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don’t split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

@ignore
@c Set file name and title for man page.
@setfilename gfdl
@settitle GNU Free Documentation License
@c man begin SEEALSO
gpl(7), fsf-funding(7).
@c man end
@c man begin COPYRIGHT
@uref{http://fsf.org/}

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of this license document, but changing it is not allowed.
@c This file is intended to be included within another document,
@c hence no sectioning command or @node.
@c man end
@end ignore
@c Special handling for inclusion in the install manual.
@ifset gfdlhtml
@ifnothtml
@comment node-name, next, previous, up
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@html
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@c End:

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@ignore
@c Set file name and title for man page.
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@settitle GNU General Public License
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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 (dossier@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 (agc@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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that carries a non-FSF copyright.

The script also doesn't change testsuite files, except those in
libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
while most tests in other directories are just things that failed at some
point in the past.

Pass --this-year to the script if you want it to add the current year
to all applicable notices. Pass --quilt if you are using quilt and
want files to be added to the quilt before being changed.

By default the script will update all directories for which the
output has been vetted. You can instead pass the names of individual
directories, including those that haven't been approved. So:

update-copyright.pl --this-year

is the command that would be used at the beginning of a year to update
all copyright notices (and possibly at other times to check whether
new files have been added with old years). On the other hand:

update-copyright.pl --this-year libjava

would run the script on just libjava/.

Note that things like --version output strings must be updated before
this script is run. There's already a separate procedure for that.

import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__(self):
        self.num_errors = 0
def report(self, filename, string):
    if filename:
        string = filename + ': ' + string
    sys.stderr.write(string + '\n')
    self.num_errors += 1

def ok(self):
    return self.num_errors == 0

class GenericFilter:
    def __init__(self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set(['
            # Skip licence files.
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
            'COPYING3.LIB',
            'LICENSE',
            'fdl.texi',
            'gpl_v3.texi',
            'fdl-1.3.xml',
            'gpl-3.0.xml',

            # Skip auto- and libtool-related files
            'aclocal.m4',
            'compile',
            'config.guess',
            'config.sub',
            'depcomp',
            'install-sh',
            'libtool.m4',
            'ltmain.sh',
            'lt~obsolete.m4',
            'ltversion.m4',
            'lt--obsolete.m4',
            'missing',
            'mkdep',
            'mkinstalldird',
            'move-if-change',
            'shlibpath.m4',
            'symlink-tree',
        '])
'ylwrap',

# Skip FSF mission statement, etc.
'gnu.texi',
'funding.texi',
'appendix_free.xml',

# Skip imported texinfo files.
'texinfo.tex',
)

def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile ('\t')
    return None

def skip_file (self, dir, filename):
    if filename in self.skip_files:
        return True
    (base, extension) = os.path.splitext (os.path.join (dir, filename))
    if extension in self.skip_extensions:
        return True
    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists (base + '.am'):
            return True
    # Skip files produced by autogen
    if (os.path.exists (base + '.def')
        and os.path.exists (base + '.tpl')):
        return True

    # Skip configure files produced by autoconf
    if filename == 'configure':
        if os.path.exists (base + '.ac'):
            return True
        if os.path.exists (base + '.in'):
            return True
    return False

def skip_dir (self, dir, subdir):
    return subdir in self.skip_dirs
def is_fossilised_file (self, dir, filename):
    if filename in self.fossilised_files:
        return True
    # Only touch current current ChangeLogs.
    if filename != 'ChangeLog' and filename.find ('ChangeLog') >= 0:
        return True
    return False

def by_package_author (self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__ (self, errors):
        self.errors = errors

        # Characters in a range of years. Include '.' for typos.
        ranges = '[0-9][?:-0-9,\s]\s+and\s+[0-9]'

        # Non-whitespace characters in a copyright holder's name.
        name = '[\w.,-]'

        # Matches one year.
        self.year_re = re.compile ('[0-9]+')

        # Matches part of a year or copyright holder.
        self.continuation_re = re.compile (ranges + '|' + name)

        # Matches a full copyright notice:
        self.copyright_re = re.compile (
            # 1: 'Copyright (C)', etc.
            '[Cc]opyright\s+[Cc]
            # 2: the years. Include the whitespace in the year, so that
            # we can remove any excess.
            '\s*\(?::\.' + ranges + '\.)\?'
            # 3: 'by ', if used
            '(by|\s+)\?'
            # 4: the copyright holder. Don't allow multiple consecutive
            # spaces, so that right-margin gloss doesn't get caught
            '@\set$s+copyright\[w-\]$')
# (e.g. gnat_ugn.texi).

'(' + name + '(?:\s?' + name + '+ )*)?)

# A regexp for notices that might have slipped by. Just matching
# 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile('copyright.*[0-9][0-9]',
re.IGNORECASE)
self.comment_re = re.compile('#+|[*]+|;+|%+|//+|@c |dnl ')
self.holders = { '@copying': '@copying' }
self.holder_prefixes = set()

# True to 'quilt add' files before changing them.
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be ', '.
self.separator = ''

def add_package_author (self, holder, canon_form = None):
    if not canon_form:
        canon_form = holder
    self.holders[holder] = canon_form
    index = holder.find (' ')
    while index >= 0:
        self.holder_prefixes.add (holder[:index])
        index = holder.find (' ', index + 1)

def add_external_author (self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__ (self, year):
        self.year = year

    def __str__ (self):
        return 'unrecognised year: ' + self.year

def parse_year (self, string):
    year = int (string)
    if len (string) == 2:
        if year > 70:
            return year + 1900
        elif len (string) == 4:
            return year
        raise self.BadYear (string)

def year_range(self, years):
    year_list = [self.parse_year(year)
                 for year in self.year_re.findall(years)]
    assert len(year_list) > 0
    return (min(year_list), max(year_list))

def set_use_quilt(self, use_quilt):
    self.use_quilt = use_quilt

def include_year(self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years(self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith('@value '):
        return years
    (min_year, max_year) = self.year_range(years)
    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file(dir, filename):
        max_year = max(max_year, self.max_year)
    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)

def strip_continuation(self, line):
    line = line.lstrip()
    match = self.comment_re.match(line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete(self, match):
    holder = match.group(4)
    return (holder
            and (holder not in self.holder_prefixes
                 or holder in self.holders))

def update_copyright(self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join(dir, filename)
intro = match.group(1)
if intro.startswith('@set'):
    # Texinfo year variables should always be on one line
    after_years = line[match.end(1):].strip()
    if after_years != '':
        self.errors.report(pathname,
                           'trailing characters in @set: ' + after_years)
        return (False, orig_line, next_line)
else:
    # If it looks like the copyright is incomplete, add the next line.
    while not self.is_complete(match):
        try:
            next_line = file.next()
        except StopIteration:
            break
        # If the next line doesn't look like a proper continuation,
        # assume that what we've got is complete.
        continuation = self.strip_continuation(next_line)
        if not self.continuation_re.match(continuation):
            break
        # Merge the lines for matching purposes.
        orig_line += next_line
        line = line.rstrip() + ' ' + continuation
        next_line = None
        # Rematch with the longer line, at the original position.
        match = self.copyright_re.match(line, match.start())
        assert match
        holder = match.group(4)
        # Use the filter to test cases where markup is getting in the way.
        if filter.by_package_author(dir, filename):
            assert holder not in self.holders
        elif not holder:
            self.errors.report(pathname, 'missing copyright holder')
            return (False, orig_line, next_line)
        elif holder not in self.holders:
            self.errors.report(pathname,
                               'unrecognised copyright holder: ' + holder)
            return (False, orig_line, next_line)
else:
    # See whether the copyright is associated with the package
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start (4)]
        + canon_form
        + line[match.end (4):])

    # Remove any 'by'
    line = line[:match.start (3)] + line[match.end (3):]

    # Update the copyright years.
    years = match.group (2).strip()
    try:
        canon_form = self.canonicalise_years (dir, filename, filter, years)
    except self.BadYear as e:
        self.errors.report (pathname, str (e))
        return (False, orig_line, next_line)

    line = (line[:match.start (2)]
        + ' ' + canon_form + self.separator
        + line[match.end (2):])

    # Use the standard (C) form.
    if intro.endswith ('right'):
        intro += ' (C)
    elif intro.endswith ('(c)'):
        intro = intro[:-3] + '(C)
    line = line[:match.start (1)] + intro + line[match.end (1):]

    # Strip trailing whitespace
    line = line.rstrip() + '\n'

    return (line != orig_line, line, next_line)

def process_file (self, dir, filename, filter):
    pathname = os.path.join (dir, filename)
    if filename.endswith ('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove (pathname)
        except OSError:
            pass
        return
lines = []
changed = False
line_filter = filter.get_line_filter (dir, filename)
with open (pathname, 'r') as file:
    prev = None
    for line in file:
        while line:
            next_line = None
            # Leave filtered-out lines alone.
            if not (line_filter and line_filter.match (line)):
                match = self.copyright_re.search (line)
                if match:
                    res = self.update_copyright (dir, filename, filter,
                                                file, line, match)
                    (this_changed, line, next_line) = res
                    changed = changed or this_changed
            # Check for copyright lines that might have slipped by.
            elif self.other_copyright_re.search (line):
                self.errors.report (pathname,
                                    'unrecognised copyright: %s
                                    % line.strip())
                lines.append (line)
                line = next_line

            # If something changed, write the new file out.
            if changed and self.errors.ok():
                tmp_pathname = pathname + '.tmp'
                with open (tmp_pathname, 'w') as file:
                    for line in lines:
                        file.write (line)
                if self.use_quilt:
                    subprocess.call (['quilt', 'add', pathname])
                os.rename (tmp_pathname, pathname)

def process_tree (self, tree, filter):
    for (dir, subdirs, filenames) in os.walk (tree):
        # Don't recurse through directories that should be skipped.
        for i in xrange (len (subdirs) - 1, -1, -1):
            if filter.skip_dir (dir, subdirs[i]):
                del subdirs[i]

        # Handle the files in this directory.
        for filename in filenames:
            if filter.skip_file (dir, filename):
                sys.stdout.write ('Skipping %s

                % os.path.join (dir, filename))

            else:
                # Handle copyright lines.
                if self.copyright_re.search (filename):
                    self.errors.report (filename,
                                            'unrecognised copyright: %s
                                            % line.strip())
                lines.append (filename)
else:
    self.process_file (dir, filename, filter)

class CmdLine:
    def __init__ (self, copyright = Copyright):
        self.errors = Errors()
        self.copyright = copyright (self.errors)
        self.dirs = []
        self.default_dirs = []
        self.chosen_dirs = []
        self.option_handlers = dict()
        self.option_help = []

        self.add_option ('--help', 'Print this help', self.o_help)
        self.add_option ('--quilt', '"quilt add" files before changing them',
                        self.o_quilt)
        self.add_option ('--this-year', 'Add the current year to every notice',
                         self.o_this_year)

    def add_option (self, name, help, handler):
        self.option_help.append ((name, help))
        self.option_handlers[name] = handler

    def add_dir (self, dir, filter = GenericFilter()):
        self.dirs.append ((dir, filter))

    def o_help (self, option = None):
        sys.stdout.write ('Usage: %s [options] dir1 dir2...

            Options:
' % sys.argv[0])
        format = '%-15s %s
'
        for (what, help) in self.option_help:
            sys.stdout.write (format % (what, help))
        sys.stdout.write ('
Directories:
')
        format = '%-25s
'
        i = 0
        for (dir, filter) in self.dirs:
            i += 1
            if i % 3 == 0 or i == len (self.dirs):
                sys.stdout.write (dir + '\n')
            else:
                sys.stdout.write (format % dir)
        sys.exit (0)

    def o_quilt (self, option):
        self.copyright.set_use_quilt (True)

    def o_this_year (self, option):
        pass
self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]:
        if arg[1:] != '-':
            self.chosen_dirs.append (arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg] (arg)
        else:
            self.errors.report (None, 'unrecognised option: ' + arg)

if self.errors.ok():
    if len (self.chosen_dirs) == 0:
        self.chosen_dirs = self.default_dirs
    if len (self.chosen_dirs) == 0:
        self.o_help()
    else:
        for chosen_dir in self.chosen_dirs:
            canon_dir = os.path.join (chosen_dir, '')
            count = 0
            for (dir, filter) in self.dirs:
                if (dir + os.sep).startswith (canon_dir):
                    count += 1
            self.copyright.process_tree (dir, filter)
            if count == 0:
                self.errors.report (None, 'unrecognised directory: ' +
                                    chosen_dir)
        sys.exit (0 if self.errors.ok() else 1)

#----------------------------------------------------------------------------
class TopLevelFilter (GenericFilter):
    def skip_dir (self, dir, subdir):
        return True

class ConfigFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

    def skip_file (self, dir, filename):
        if filename.endswith ('.m4'):
            pathname = os.path.join (dir, filename)
            with open (pathname) as file:
                # Skip files imported from gettext.
                if file.readline().find ('gettext-') >= 0:
                    return True
            return GenericFilter.skip_file (self, dir, filename)

class GCCFilter (GenericFilter):
def __init__ (self):
    GenericFilter.__init__ (self)

    self.skip_files |= set ( [
        # Not part of GCC
        'math-68881.h',
    ])

    self.skip_dirs |= set ( [
        # Better not create a merge nightmare for the GNAT folks.
        'ada',

        # Handled separately.
        'testsuite',
    ])

    self.skip_extensions |= set ( [
        # Maintained by the translation project.
        '.po',

        # Automatically-generated.
        '.pot',
    ])

    self.fossilised_files |= set ( [
        # Old news won't be updated.
        'ONEWS',
    ])

class TestsuiteFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

    self.skip_extensions |= set ( [
        # Don't change the tests, which could be woend by anyone.
        '.c',
        '.C',
        '.cc',
        '.h',
        '.hs',
        '.f',
        '.f90',
        '.go',
        '.inc',
        '.java',
    ])

    def skip_file (self, dir, filename):
        pass
# g++.niklas/README contains historical copyright information
# and isn’t updated.
if filename == 'README' and os.path.basename(dir) == 'g++.niklas':
    return True
return GenericFilter.skip_file(self, dir, filename)

class LibCppFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_extensions |= set([
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ])

class LibGCCFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set([
            # Imported from GLIBC.
            'soft-fp',
        ])

class LibJavaFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set([
            # Handled separately.
            'testsuite',

            # Not really part of the library
            'contrib',

            # Imported from upstream
            'classpath',
            'libltdl',
        ])

def get_line_filter(self, dir, filename):
    if filename == 'NameDecoder.h':
        return re.compile('.*NAME_COPYRIGHT')
    if filename == 'ICC_Profile.h':
        return re.compile('.*icSigCopyrightTag')
class LibMudflapFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set (
            # Handled separately.
            'testsuite',
        )

class LibStdCxxFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set (
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
        )

        self.skip_dirs |= set (
            # Contains automatically-generated sources.
            'html',

            # The testsuite data files shouldn't be changed.
            'data',

            # Contains imported images
            'images',
        )

        self.own_files |= set (
            # Contains markup around the copyright owner.
            'spine.xml',
        )

    def get_line_filter (self, dir, filename):
        if filename == 'boost_concept_check.h':
            return re.compile ('// \(C\) Copyright Jeremy Siek')
        return GenericFilter.get_line_filter (self, dir, filename)

class GCCCopyright (Copyright):
    def __init__ (self, errors):
        Copyright.__init__ (self, errors)

        canon_fsf = 'Free Software Foundation, Inc.'
        self.add_package_author ('Free Software Foundation', canon_fsf)
        self.add_package_author ('Free Software Foundation.', canon_fsf)
class GCCCmdLine (CmdLine):
    def __init__ (self):
        CmdLine.__init__ (self, GCCCopyright)

        self.add_dir ('.', TopLevelFilter())
        # boehm-gc is imported from upstream.
        self.add_dir ('config', ConfigFilter())
        # contrib isn't really part of GCC.
        self.add_dir ('fixincludes')
        self.add_dir ('gcc', GCCFilter())
        self.add_dir (os.path.join ('gcc', 'testsuite'), TestsuiteFilter())
        self.add_dir ('gnattools')
        self.add_dir (os.path.join ('include', 'libada'))
self.add_dir('libatomic')
self.add_dir('libbacktrace')
self.add_dir('libc++', LibCppFilter())
self.add_dir('libdecnumber')
# libffi is imported from upstream.
self.add_dir('libgcc', LibGCCFilter())
self.add_dir('libgfortran')
self.add_dir('libgomp')
self.add_dir('libiberty')
self.add_dir('libitm')
self.add_dir('libjava', LibJavaFilter())
self.add_dir(os.path.join('libjava', 'testsuite'), TestsuiteFilter())
self.add_dir('libmudflap', LibMudflapFilter())
self.add_dir(os.path.join('libmudflap', 'testsuite'),
             TestsuiteFilter())
self.add_dir('libobjc')
self.add_dir('libquadmath')
# libsanitiser is imported from upstream.
self.add_dir('libssp')
self.add_dir('libc++-v3', LibStdCxxFilter())
self.add_dir('lto-plugin')
# zlib is imported from upstream.

self.default_dirs = [
    'gcc',
    'libada',
    'libatomic',
    'libbacktrace',
    'libc++',
    'libdecnumber',
    'libgcc',
    'libgfortran',
    'libgomp',
    'libibm',
    'libmudflap',
    'libobjc',
    'libc++-v3',
]

GCCCmdLine().main()

<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<!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=UTF-8" />
<title>License</title><meta name="generator" content="DocBook XSL-NS Stylesheets V1.78.1" />
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Version 3.1.31 March 2009

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```
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@endindexsubsec Preamble

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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 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.

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@appendixsubsec How to Apply These Terms to Your New Libraries

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* m4/ax_func_which_gethostname_r.m4

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import com.sun.tools.doclets.Taglet;

import com.sun.javadoc.Tag;
/**
 * A simple Taglet which handles Copyright information.
 */

public class CopyrightTaglet implements Taglet {

    private static final String NAME = "copyright";
    private static final String HEADER = "Copyright:";

    public String getName() {
        return NAME;
    }

    public boolean inField() {
        return true;
    }

    public boolean inConstructor() {
        return true;
    }

    public boolean inMethod() {
        return true;
    }

    public boolean inOverview() {
        return true;
    }

    public boolean inPackage() {
        return true;
    }

    public boolean inType() {
        return true;
    }

    public boolean isInlineTag() {
        return false;
    }

    public static void register(Map tagletMap) {
        CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
        tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
    }

    public String toString(Tag tag) {
        return toString(new Tag[] { tag });
    }
}
public String toString(Tag[] tags) {
    if (tags.length == 0) {
        return null;
    } else {
        boolean haveValidTag = false;
        for (int i = 0; i < tags.length && !haveValidTag; ++i) {
            if (tags[i].text().length() > 0) {
                haveValidTag = true;
            }
        }
        if (haveValidTag) {
            StringBuffer result = new StringBuffer();
            result.append("<dl>");
            for (int i = 0; i < tags.length; i++) {
                if (tags[i].text().length() > 0) {
                    result.append("<dt><i>Copyright © " + tags[i].text() + "</i></dt>");
                }
            result.append("</dl>");
            return result.toString();
        } else {
        return null;
    }
    }
}

/* Permission.java -- The superclass for all permission objects

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package java.security;

import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission. A permission consists of a permission name
 * and optionally a list of actions that relate to the permission. The
 * actual meaning of the name of the permission is defined only in the
 * context of a subclass. It may name a resource to which access permissions
 * are granted (for example, the name of a file) or it might represent
 * something else entirely. Similarly, the action list only has meaning
 * within the context of a subclass. Some permission names may have no
 * actions associated with them. That is, you either have the permission
 * or you don't.
 * *
 * <p>The most important method in this class is <code>implies</code>. This
 * checks whether if one has this permission, then the specified
 * permission is also implied. As a conceptual example, consider the
 * permissions "Read All Files" and "Read File foo". The permission
 * "Read All Files" implies that the caller has permission to read the
 * file foo.
 * *
 * <p><code>Permission</code>'s must be immutable - do not change their
 * state after creation.
 * */
public abstract class Permission implements Guard, Serializable {
    
    private static final long serialVersionUID = -563657022231596674L;

    
    private String name;

    
    public Permission(String name) {
        this.name = name;
    }

    
    public void checkGuard(Object obj) {
        SecurityManager sm = System.getSecurityManager();
        if (sm != null)
            sm.checkPermission(this);
    }
}
/**
 * This method tests whether this <code>Permission</code> implies that the
 * specified <code>Permission</code> is also granted.
 *
 * @param perm the <code>Permission</code> to test against
 * @return true if perm is implied by this
 */
public abstract boolean implies(Permission perm);

/**
 * Check to see if this object equals obj. Use <code>implies</code>, rather
 * than <code>equals</code>, when making access control decisions.
 *
 * @param obj the object to compare to
 */
public abstract boolean equals(Object obj);

/**
 * This method returns a hash code for this <code>Permission</code>. It
 * must satisfy the contract of <code>Object.hashCode</code>: it must be
 * the same for all objects that equals considers to be the same.
 *
 * @return a hash value
 */
public abstract int hashCode();

/**
 * Get the name of this <code>Permission</code>.
 *
 * @return the name
 */
public final String getName()
{
    return name;
}

/**
 * This method returns the list of actions for this <code>Permission</code>
 * as a <code>String</code>. The string should be in canonical order, for
 * example, both <code>new FilePermission(f, "write,read")</code> and
 * <code>new FilePermission(f, "read,write")</code> have the action list
 * "read,write".
 *
 * @return the action list for this <code>Permission</code>
 */
public abstract String getActions();
/**
 * This method returns an empty <code>PermissionCollection</code> object
 * that can store permissions of this type, or <code>null</code> if no
 * such collection is defined. Subclasses must override this to provide
 * an appropriate collection when one is needed to accurately calculate
 * <code>implies</code>. 
 * 
 * @return a new <code>PermissionCollection</code>
 */

public PermissionCollection newPermissionCollection()
{
    return null;
}

/**
 * This method returns a <code>String</code> representation of this
 * <code>Permission</code> object. This is in the format:
 * <code>'(' + getClass().getName() + ' ' + getName() + ' ' + getActions
 * + ')</code>. 
 * 
 * @return this object as a <code>String</code>
 */

public String toString()
{
    CPStringBuilder string = new CPStringBuilder();
    string = string.append('(
    string = string.append(getClass().getName());
    string = string.append(' ');
    string = string.append(getName());
    if (!(getActions().equals("")))
    {
        string = string.append(' ');
        string = string.append(getActions());
    }
    string = string.append(')');
    return string.toString();
}
} // class Permission

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package java.security.acl;

/**
 * This interface provides information about a permission that can be granted. Note that this is not the same as the class java.security.Permission.
 * @version 0.0
 * @author Aaron M. Renn (arenn@urbanophile.com)
 */
public interface Permission
{
/**
 * This method tests whether or not a specified Permission (passed as an Object) is the same as this permission.
 * @param perm The permission to check for equality
 */

* @return <code>true</code> if the specified permission is the same as this one, <code>false</code> otherwise
*/
boolean equals (Object perm);

/**
 * This method returns this <code>Permission</code> as a <code>String</code>.
 * @return A <code>String</code> representing this permission.
 */
String toString();

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gdal/frmts/gtiff/tif_float.c

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gdal/frmts/pcraster/libcsf
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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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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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@item
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:

@enumerate a
@item
The modified work must itself be a software library.

@item
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.)
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.

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.

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.

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.

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.

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:

@enumerate
  @item
  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.

You may place library facilities that are a work based on the
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Accompany the combined library with a copy of the same work
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@end enumerate

@end iftex
@end heading
END OF TERMS AND CONDITIONS
@end iftex
@end ifinfo
@end center
END OF TERMS AND CONDITIONS
@end ifinfo

@page
@appendixsubsec How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest
possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms of the
ordinary General Public License).

To apply these terms, attach the following notices to the library. It is
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convey the exclusion of warranty; and each file should have at least the
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@smallexample
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@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample

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Version 2.1, February 1999

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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 "Lesser" General Public License because it
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For example, on rare occasions, there may be a special need to
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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
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The precise terms and conditions for copying, distribution and
modification follow. Pay close attention to the difference between a
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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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2. 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
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above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

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.

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
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
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contains portions of the Library), rather than a "work that uses the
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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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Ty Coon, President of Vice

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]
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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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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, while the latter only works together with the library.

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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
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Appendix: How to Apply These Terms to Your New Libraries

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

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

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

That's all there is to it!

#!/usr/bin/env python

# Copyright (C) 2011-2013 Free Software Foundation, Inc.
#
# This file is part of GDB.
#
# 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 3 of the License, or
This script updates the list of years in the copyright notices in most files maintained by the GDB project.

Usage: cd src/gdb && python copyright.py

Always review the output of this script before committing it!
A useful command to review the output is:
% filterdiff -x *.c -x *.cc -x *.h -x *.exp updates.diff
This removes the bulk of the changes which are most likely to be correct.

import datetime
import os
import os.path
import subprocess

def get_update_list():
    """Return the list of files to update.

    Assumes that the current working directory when called is the root
    of the GDB source tree (NOT the gdb/ subdirectory!). The names of
    the files are relative to that root directory.
    """
    result = []
    for gdb_dir in ('gdb', 'sim', 'include/gdb'):
        for root, dirs, files in os.walk(gdb_dir, topdown=True):
            for dirname in dirs:
                reldirname = "%s/%s" % (root, dirname)
                if (dirname in EXCLUDE_ALL_LIST
                    or reldirname in EXCLUDE_LIST
                    or reldirname in NOT_FSF_LIST
                    or reldirname in BY_HAND):
                    # Prune this directory from our search list.
                    dirs.remove(dirname)
                for filename in files:
relpath = "%s/%s" % (root, filename)
if (filename in EXCLUDE_ALL_LIST
    or relpath in EXCLUDE_LIST
    or relpath in NOT_FSF_LIST
    or relpath in BY_HAND):
    # Ignore this file.
    pass
else:
    result.append(relpath)
return result

def update_files(update_list):
    """Update the copyright header of the files in the given list."
    We use gnulib's update-copyright script for that.
    """
    # We want to use year intervals in the copyright notices, and
    # all years should be collapsed to one single year interval,
    # even if there are "holes" in the list of years found in the
    # original copyright notice (OK'ed by the FSF, case [gnu.org #719834]).
    os.environ['UPDATE_COPYRIGHT_USE_INTERVALS'] = '2'

    # Perform the update, and save the output in a string.
    update_cmd = ['bash', 'gdb/gnulib/import/extra/update-copyright']
    update_cmd += update_list
    p = subprocess.Popen(update_cmd, stdout=subprocess.PIPE,
                         stderr=subprocess.PIPE)
    update_out = p.communicate()[0]

    # Process the output. Typically, a lot of files do not have
    # a copyright notice :-(. The update-copyright script prints
    # a well defined warning when it did not find the copyright notice.
    # For each of those, do a sanity check and see if they may in fact
    # have one. For the files that are found not to have one, we filter
    # the line out from the output, since there is nothing more to do,
    # short of looking at each file and seeing which notice is appropriate.
    # Too much work! (~4,000 files listed as of 2012-01-03).
    update_out = update_out.splitlines()
    warning_string = ': warning: copyright statement not found'
    warning_len = len(warning_string)

    for line in update_out:
        if line.endswith("\n"):
            line = line[:-1]
        if line.endswith(warning_string):
            filename = line[:-warning_len]
if may_have_copyright_notice(filename):
    print line
else:
    # Unrecognized file format. !?!
    print "*** " + line

def may_have_copyright_notice(filename):
    """Check that the given file does not seem to have a copyright notice.

    The filename is relative to the root directory.
    This function assumes that the current working directory is that root
    directory.

    The algorighm is fairly crude, meaning that it might return
    some false positives. I do not think it will return any false
    negatives... We might improve this function to handle more
    complex cases later...
    """
    # For now, it may have a copyright notice if we find the word
    # "Copyright" at the (reasonable) start of the given file, say
    # 50 lines...
    MAX_LINES = 50

    fd = open(filename)

    lineno = 1
    for line in fd:
        if 'Copyright' in line:
            return True
        lineno += 1
        if lineno > 50:
            return False
    return False

def main ():
    """The main subprogram."""
    if not os.path.isfile("gnulib/import/extra/update-copyright"):
        print "Error: This script must be called from the gdb directory."
    root_dir = os.path.dirname(os.getcwd())
    os.chdir(root_dir)

    update_list = get_update_list()
    update_files (update_list)

    # Remind the user that some files need to be updated by HAND...
    if BY_HAND:
print
print "\033[31mREMINDER: The following files must be updated by hand." \ 
  "\033[0m"
for filename in BY_HAND + MULTIPLE_COPYRIGHT_HEADERS:
  print "  ", filename

############################################################################
# # Some constants, placed at the end because they take up a lot of room. # # The actual value of these constants is not significant to the understanding # of the script. #
# ############################################################################

# Files which should not be modified, either because they are # generated, non-FSF, or otherwise special (e.g. license text, # or test cases which must be sensitive to line numbering). #
# Filenames are relative to the root directory.
EXCLUDE_LIST = (  'gdb/CONTRIBUTE',  'gdb/gnulib'
)

# Files which should not be modified, either because they are # generated, non-FSF, or otherwise special (e.g. license text, # or test cases which must be sensitive to line numbering). #
# Matches any file or directory name anywhere. Use with caution. # This is mostly for files that can be found in multiple directories. # Eg: We want all files named COPYING to be left untouched.
EXCLUDE_ALL_LIST = (  "COPYING", "COPYING.LIB", "CVS", "configure", "copying.c",  "fdl.texi", "gpl.texi", "aclocal.m4",  )

# The list of files to update by hand.
BY_HAND = (  # These files are sensitive to line numbering.  "gdb/testsuite/gdb.base/step-line.inp",  "gdb/testsuite/gdb.base/step-line.c",  )

# Files containing multiple copyright headers. This script is only # fixing the first one it finds, so we need to finish the update # by hand.
MULTIPLE_COPYRIGHT_HEADERS = (  )
NOT_FSF_LIST = (  
    "gdb/exc_request.defs",
    "gdb/gdbtk",
    "gdb/testsuite/gdb-gdbtk/",
    "sim/arm/armemu.h", "sim/arm/armos.c", "sim/arm/gdbhost.c",
    "sim/arm/dbg_hif.h", "sim/arm/dbg_conf.h", "sim/arm/communicate.h",
    "sim/arm/armos.h", "sim/arm/armcopro.c", "sim/arm/armemu.c",
    "sim/arm/kid.c", "sim/arm/thumbemu.c", "sim/arm/armdefs.h",
    "sim/arm/armopts.h", "sim/arm/dbg_cp.h", "sim/arm/dbg_rdi.h",
    "sim/arm/parent.c", "sim/arm/armsupp.c", "sim/arm/armrdi.c",
    "sim/arm/bag.c", "sim/arm/armvirt.c", "sim/arm/main.c", "sim/arm/bag.h",
    "sim/arm/communicate.c", "sim/arm/gdbhost.h", "sim/arm/armfpe.h",
    "sim/arm/arminit.c",
    "sim/common/cgen-fpu.c", "sim/common/cgen-fpu.h",
    "sim/common/cgen-accfp.c",
    "sim/erc32/sis.h", "sim/erc32/erc32.c", "sim/erc32/func.c",
    "sim/erc32/float.c", "sim/erc32/interf.c", "sim/erc32/sis.c",
    "sim/erc32/exec.c",
    "sim/mips/m16run.c", "sim/mips/sim-main.c",
    "sim/moxie/moxie-gdb.dts",
    "sim/ppc/filter.h", "sim/ppc/gen-support.h", "sim/ppc/ld-insn.h",
    "sim/ppc/hw_sem.c", "sim/ppc/hw_disk.c", "sim/ppc/idecode_branch.h",
    "sim/ppc/sim-endian.h", "sim/ppc/table.c", "sim/ppc/hw_core.c",
    "sim/ppc/gen-support.c", "sim/ppc/gen-semantics.h", "sim/ppc/cpu.h",
    "sim/ppc/sim_callbacks.h", "sim/ppc/RUN", "sim/ppc/Makefile.in",
    "sim/ppc/emul_chirp.c", "sim/ppc/hw_nvram.c", "sim/ppc/dc-test.01",
    "sim/ppc/hw_phb.c", "sim/ppc/hw_eeprom.c", "sim/ppc/bits.h",
    "sim/ppc/hw_vm.c", "sim/ppc/cap.h", "sim/ppc/os_emul.h",
    "sim/ppc/options.h", "sim/ppc/gen-idecode.c", "sim/ppc/filter.c",
    "sim/ppc/corefile-n.h", "sim/ppc/std-config.h", "sim/ppc/ld-decode.h",
    "sim/ppc/filter_filename.h", "sim/ppc/hw_shm.c",
    "sim/ppc/pk_disklabel.c", "sim/ppc/dc-simple", "sim/ppc/misc.h",
    "sim/ppc/device_table.h", "sim/ppc/ld-insn.c", "sim/ppc/inline.c",
    "sim/ppc/emul_bugapi.h", "sim/ppc/hw_cpu.h", "sim/ppc/debug.h",
    "sim/ppc/hw_ide.c", "sim/ppc/debug.c", "sim/ppc/gen-itable.h",
    "sim/ppc/interrupts.c", "sim/ppc/hw_glue.c", "sim/ppc/emul_unix.c",
    "sim/ppc/sim_calls.c", "sim/ppc/dc-complex", "sim/ppc/ld-cache.c",
    "sim/ppc/registers.h", "sim/ppc/dc-test.02", "sim/ppc/options.c",
    "sim/ppc/igen.h", "sim/ppc/registers.c", "sim/ppc/device.h",
    "sim/ppc/emul_chirp.h", "sim/ppc/hw_register.c", "sim/ppc/hw_init.c", 
    
    # Not a single file in sim/ppc/ appears to be copyright FSF :-(.
    "sim/ppc/filter.h", "sim/ppc/gdb-host.h", "sim/ppc/ld-insn.h",
    "sim/ppc/hw_sem.c", "sim/ppc/hw_disk.c", "sim/ppc/idecode_branch.h",
    "sim/ppc/sim-endian.h", "sim/ppc/table.c", "sim/ppc/hw_core.c",
    "sim/ppc/gen-support.c", "sim/ppc/gen-semantics.h", "sim/ppc/cpu.h",
    "sim/ppc/sim_callbacks.h", "sim/ppc/RUN", "sim/ppc/Makefile.in",
    "sim/ppc/emul_chirp.c", "sim/ppc/hw_nvram.c", "sim/ppc/dc-test.01",
    "sim/ppc/hw_phb.c", "sim/ppc/hw_eeprom.c", "sim/ppc/bits.h",
    "sim/ppc/hw_vm.c", "sim/ppc/cap.h", "sim/ppc/os_emul.h",
    "sim/ppc/options.h", "sim/ppc/gen-idecode.c", "sim/ppc/filter.c",
    "sim/ppc/corefile-n.h", "sim/ppc/std-config.h", "sim/ppc/ld-decode.h",
    "sim/ppc/filter_filename.h", "sim/ppc/hw_shm.c",
    "sim/ppc/pk_disklabel.c", "sim/ppc/dc-simple", "sim/ppc/misc.h",
    "sim/ppc/device_table.h", "sim/ppc/ld-insn.c", "sim/ppc/inline.c",
    "sim/ppc/emul_bugapi.h", "sim/ppc/hw_cpu.h", "sim/ppc/debug.h",
    "sim/ppc/hw_ide.c", "sim/ppc/debug.c", "sim/ppc/gen-itable.h",
    "sim/ppc/interrupts.c", "sim/ppc/hw_glue.c", "sim/ppc/emul_unix.c",
    "sim/ppc/sim_calls.c", "sim/ppc/dc-complex", "sim/ppc/ld-cache.c",
    "sim/ppc/registers.h", "sim/ppc/dc-test.02", "sim/ppc/options.c",
    "sim/ppc/igen.h", "sim/ppc/registers.c", "sim/ppc/device.h",
    "sim/ppc/emul_chirp.h", "sim/ppc/hw_register.c", "sim/ppc/hw_init.c", 
    
    # The list of file which have a copyright, but not head by the FSF.
    # Filenames are relative to the root directory.
    NOT_FSF_LIST = (  
    "gdb/exc_request.defs",
    "gdb/doc/gdb.texinfo",
    "gdb/doc/refcard.tex",
    "gdb/gdbarch.sh",
)
if __name__ == "__main__":
    main()
BEGIN{
    FS="\"; 
    print ";* == Do not modify this file!!  " \ 
    ";-*- buffer-read-only: t -*- vi" \ 
    ";set ro;":
    print " It is created automatically by copying.awk.";
    print " Modify copying.awk instead. <= *=/;"
    print ""
    print ";include \\defs.h\"" 
    print ";include \"command.h\"" 
    print ";include \"gdbcmd.h\"" 
    print ""
    print "static void show_copying_command (char *, int);" 
    print ""
    print "static void show_warranty_command (char *, int);" 
    print ""
    print "void _initialize_copying (void);" 
    print ""
    print "static void;"
    print "show_copying_command (char *ignore, int from_tty);"
if ($0 ~ //</) {
    printf " printf_filtered (\n\n\n\n"

} else if ($0 != ~/ ]*15\. Disclaimer of Warranty\[ ]*$)/
{
    printf " printf_filtered (\n"
    for (i = 1; i < NF; i++)
    printf "\n\n\n\n";
}
/
] *15\. Disclaimer of Warranty\[ ]*$)/
print "\n"
print "\n"
print "static void"
print "show_warranty_command (char *ignore, int from_tty)"
print "\n"
/
] *15\. Disclaimer of Warranty\[ ]*$/, /
] *END OF TERMS AND CONDITIONS\[ ]*$)/
if (! ($0 ~ ~/ ]*END OF TERMS AND CONDITIONS\[ ]*$)/)
{
    printf " printf_filtered (\n"
    for (i = 1; i < NF; i++)
    printf "\n\n\n\n";
}
/
] *15\. Disclaimer of Warranty\[ ]*$/, /
] *END OF TERMS AND CONDITIONS\[ ]*$)/
print "\n"
print "\n"
print "\n"
print "\n"
print "\n"
print "\n"
print "\n"
print "\n"
print "\n"
print "\n"
print "\n"
print "\n"
print "\n"
print "\n"
print "\n"
print "\n"
print "\n"
print "\n"
print "\n" /* For old-timers, allow "info copying", etc. */
print " add_info ("copying", show_copying_command,");
print " add_info ("warranty", show_warranty_command,";
print "_("Various kinds of warranty you do not have.")");
print "]");
}
@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{} 2007 Free Software Foundation, Inc. @url{http://fsf.org/}
@c man end
@end ignore
@node Copying
@c man begin DESCRIPTION
@appendix GNU GENERAL PUBLIC LICENSE
@c The GNU General Public License.
center Version 3, 29 June 2007
c This file is intended to be included within another document,
c hence no sectioning command or @node.
center
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Everyone is permitted to copy and distribute verbatim copies of this
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The precise terms and conditions for copying, distribution and
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@heading TERMS AND CONDITIONS

@enumerate 0
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@enumerate
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Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in...
source code form), and must require no special password or key for unpacking, reading or copying.

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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.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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1.536 gdbm 1.10 :8.el7
1.536.1 Available under license:

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Version 3, 29 June 2007

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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 compile 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) 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.

c) 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.

d) 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 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.

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.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) 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.

b) Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
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Appendix: How to Apply These Terms to Your New Libraries

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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 `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` 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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Open Source Used In Pl 3.5.1 3.5.1
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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You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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.
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.

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.

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.

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.

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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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
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@subheading END OF TERMS AND CONDITIONS

@page
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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.

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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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.

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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 is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this
will lead to faster development of free libraries.

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, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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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").

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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 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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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.

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it
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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 compile 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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To apply these terms, attach the following notices to the library. 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.

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1.550 glibc-devel 2.17 :222.el7

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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.

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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
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We call this license the \texttt{Lesser} General Public License because it
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libraries. However, the Lesser license provides advantages in certain
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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 \texttt{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
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``work based on the library” and a ``work that uses the library”. The
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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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You may opt to apply the terms of the ordinary GNU General Public
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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.

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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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@c End:
@c The GNU Lesser General Public License.
@center Version 2.1, February 1999
@c This file is intended to be included within another document, hence no sectioning command or @node.

@display
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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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This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called `this License`). Each licensee is addressed as `you`.

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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@enumerate
@item
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@item
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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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.

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.

@item
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.

@item
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:

@enumerate a
@item
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
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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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To apply these terms, attach the following notices to the library. 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.

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Preamble

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To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the 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 a program 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.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

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Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free
libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. 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:

a) The modified work must itself be a software library.

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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.)

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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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 compile 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) 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.

c) 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.

d) 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 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.

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.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) 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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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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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.

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"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.

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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a
fee.

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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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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
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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.

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.

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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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
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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.

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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.

@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.

@item
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.

@item
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:

- 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.)

- 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.

- 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.

- 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.

- 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.

You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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.

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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@end enumerate

@end subheading END OF TERMS AND CONDITIONS

@page
@end subheading How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. 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.

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one line to give the library's name and an idea of what it does.
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Also add information on how to contact you by electronic and paper mail.

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

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'Frob' (a library for tweaking knobs) written by James Random Hacker.

@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample

That's all there is to it!

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[This is the first released version of the library GPL. It is
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Preamble

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complete object files to the recipients so that they can relink them
with the library, after making changes to the library and recompiling
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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards
changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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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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and you may at your option offer warranty protection in exchange for a
fee.

2. 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:

a) The modified work must itself be a software library.

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
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.

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.

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 compile 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) 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.

c) 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.

d) 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 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.

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.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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   b) 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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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. 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.

<one line to give the library's name and a brief idea of what it does.> Copyright (C) <year> <name of author>

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library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

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

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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.

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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 "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 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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0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

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.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.
2. 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:

a) The modified work must itself be a software library.

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.

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.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) 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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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.

3. 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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b) 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,

c) 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.)

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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1.554 gnome-utils_libs 2.28.1 :10.el6
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That's all there is to it!

1.555 gnu-crypto 2.0.1

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##
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1.559 gobject-introspection 1.50.0 :1.el7

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1.567 groff-base 1.22.2 :8.el7

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The file `src/libs/snprintf/snprintf.c', written by Mark Martinec
<mark.martinec@ijs.si>.

Please look into snprintf.c for the copyright message.

The complete snprintf package together with documentation is available
from

http://www.ijs.si/software/snprintf/ .
The `grn' preprocessor, written by Barry Roitblat <barry@rentonww.com> and David Slattengren <slatteng@Xinet.COM>. These files have been part of the original Berkeley ditroff distribution, without AT&T code, and are in the public domain.

The original package can be found at http://ftp.cs.wisc.edu/pub/misc/grn.tar.Z.

src/preproc/grn/gprint.h
src/preproc/grn/hdb.cpp
src/preproc/grn/hgraph.cpp
src/preproc/grn/hpoint.cpp
src/preproc/grn/main.cpp

The `gxditview' output device. It is based on X11's `xditview' program and thus has the X license.

src/devices/xditview/DESC.in
src/devices/xditview/Dvi.c
src/devices/xditview/Dvi.h
src/devices/xditview/DviP.h
src/devices/xditview/FontMap
src/devices/xditview/GXditview.ad
src/devices/xditview/Menu.h
src/devices/xditview/ad2c
src/devices/xditview/device.c
src/devices/xditview/device.h
src/devices/xditview/draw.c
src/devices/xditview/font.c
src/devices/xditview/gray1.bm
src/devices/xditview/gray2.bm
src/devices/xditview/gray3.bm
src/devices/xditview/gray4.bm
src/devices/xditview/gray5.bm
src/devices/xditview/gray6.bm
src/devices/xditview/gray7.bm
src/devices/xditview/gray8.bm
src/devices/xditview/gxditview.man
src/devices/xditview/lex.c
src/devices/xditview/page.c
src/devices/xditview/parse.c
src/devices/xditview/xdit.bm
src/devices/xditview/xdit_mask.bm
src/devices/xditview/xditview.c

src/include/DviChar.h
src/include/XFontName.h
Macro Packages
--------------

. The -mdoc macro set, using the BSD license.

tmac/doc.tmac
tmac/doc-old.tmac
tmac/doc-common
tmac/doc-ditroff
tmac/doc-nroff
tmac/doc-syms
tmac/groff_mdoc.man

. The -me macro set, using the BSD license.

tmac/e.tmac
tmac/groff_me.man
doc/meintro.me
doc/meref.me

Hyphenation Patterns
---------------------

. The file `tmac/hyphen.us' is identical to the file `hyphen.tex', part of
the TeX system written by Donald E. Knuth; the master file can be found
at

    ftp://labrea.stanford.edu/pub/tex/dist/lib/hyphen.tex

It has been renamed for consistency, i.e., to make patterns available
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. The file `tmac/hyphen.fr' contains the same patterns as the file
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    http://dante.ctan.org/CTAN/language/hyphenation/frhyph.tex

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. The files `tmac/hyphen.det' and `tmac/hyphen.den' contain the same patterns as the files `dehyphn.tex' and `dehypht.tex' (for TeX), which can be found at

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. The file `tmac/hyphen.cs' contains the same patterns as the file `czhyphen.tex' (for TeX), which can be found in the archive

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From: Stephane Rochoy <sheda>
Date: Sun, 22 Jun 2014 01:35:52 +0200
Subject: [PATCH 085/260] * grub-core/loader/i386/bsd.c (grub_netbsd_boot):
Pass pointer to EFI system table.

---
ChangeLog | 5 +++++
grub-core/loader/i386/bsd.c | 8 ++++++++include/grub/i386/netbsd_bootinfo.h | 7 ++++++
3 files changed, 20 insertions(+)
diff --git a/ChangeLog b/ChangeLog
index abf8f4b27..0cdd095a4 100644
--- a/ChangeLog
+++ b/ChangeLog
@@ -1,5 +1,10 @@
2014-06-21  Stephane Rochoy <sheda>
+* grub-core/loader/i386/bsd.c (grub_netbsd_boot): Pass pointer to
+EFI system table.
+
+2014-06-21  Stephane Rochoy <sheda>
+
* grub-core/commands/efi/lsefisystab.c (grub_cmd_lsefisystab): Show
EFI system table physical address.

diff --git a/grub-core/loader/i386/bsd.c b/grub-core/loader/i386/bsd.c
index 41ef9109c..8f691e0e2 100644
--- a/grub-core/loader/i386/bsd.c
+++ b/grub-core/loader/i386/bsd.c
@@ -1145,6 +1145,14 @@ grub_netbsd_boot (void)
         if (err)
             return err;

+/* grub-core/loader/i386/bsd.c (grub_netbsd_boot): Pass pointer to
+EFS system table.
+
+E2014-06-21  Stephane Rochoy <sheda>
+
* grub-core/commands/efi/lsefisystab.c (grub_cmd_lsefisystab): Show
EFI system table physical address.

+if (err)
+    return err;

+#ifdef GRUB_MACHINE_EFI
+  err = grub_bsd_add_meta (NETBSD_BTINFO_EFI,
+ &grub_efi_system_table,
+ sizeof (grub_efi_system_table));
+ if (err)
+   return err;
+#endif
+
{
    struct bsd_tag *tag;
    tag_buf_len = 0;
    diff --git a/include/grub/i386/netbsd_bootinfo.h b/include/grub/i386/netbsd_bootinfo.h
index e48c19b40..9b4f46041 100644
--- a/include/grub/i386/netbsd_bootinfo.h
+++ b/include/grub/i386/netbsd_bootinfo.h
@@ -58,6 +58,8 @@
#define NETBSD_BTINFO_BOOTWEDGE		10
#define NETBSD_BTINFO_MODULES		11
#define NETBSD_BTINFO_FRAMEBUF		12
+#define NETBSD_BTINFO_USERCONFCOMMANDS 13
+#define NETBSD_BTINFO_EFI	        14

struct grub_netbsd_bootinfo
{
    @ @ -146,4 +148,9 @ @ struct grub_netbsd_btinfo_framebuf

#define GRUB_NETBSD_MAX_ROOTDEVICE_LEN 16

+struct grub_netbsd_btinfo_efi
+{
+    void *pa_systbl; /* Physical address of the EFI System Table */
+    
+    #endif
+    --
+ 2.13.0

1.573 grubby 8.28 :23.el7
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\^L

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*[^L]
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**1.587 gwt-user 2.6.1**

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RFC-1321.

Note: even if standard Java 1.1 APIs already provide a MD5 implementation, this class is used on those Java runtime environments (like Kaffe) where the package `<code>java.security</code>` is highly improbable to be found.

author <a href="mailto:stefano@apache.org">Stefano Mazzocchi</a>

/*

1.588 gzip 1.5 :10.el7

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Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
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Whether this is true is especially significant if the work can be
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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.

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(1)

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- com/lowagie/text/pdf/LZWDecoder.java (first appearance in iText: 2002-02-08)

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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
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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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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."

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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."

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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/itextpdf/text/pdf/codec/TIFFConstants
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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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(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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1.665 jackson-databind 2.8.7

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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 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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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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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)
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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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1.672 jackson-mapper-asl 1.9.12

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That's all there is to it!

1.673 jackson-mapper-asl 1.9.13
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Version 2.1, February 1999

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1.714 jaxb-api 2.2
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The JAXB expert group has wide industry participation with Oracle as the EG lead. The initial specification (JAXB 1.0) was JSR-31 and was released in March 2003.

The next versions of the spec (JAXB 2.0/2.1/2.2) are being developed as JSR-222. This release addresses a number of additional requirements in the area, and increases the synergy between the JAXB and JAX-WS specifications.

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$Id: NoNodeTest.java,v 1.4 2002/04/26 17:17:36 jstrachan Exp $
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1.733 JCL 1.1.1 implemented over SLF4J 1.5.8

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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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/*

1.740 JDOM 1.0

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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;
}
```java
/**
 * This will set the value of the <code>Comment</code>.
 * @param text <code>String</code> text for comment.
 * @return <code>Comment</code> - 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 <code>String</code> representation of the
 * <code>Comment</code>, suitable for debugging. If the XML
 * representation of the <code>Comment</code> is desired,
 * { @link org.jdom.output.XMLOutputter#outputString(Comment) }
 * should be used.
 * @return <code>String</code> - information about the
 *      <code>Attribute</code>
 */
public String toString() {
    return new StringBuffer()
        .append("[Comment: ")
        .append(new org.jdom.output.XMLOutputter().outputString(this))
        .append("]")
        .toString();
}
```

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/*--

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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.
 */
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 <code>Comment</code>.
 * @param text <code>String</code> text for comment.
 * @return <code>Comment</code> - 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 <code>String</code> representation of the
 * <code>Comment</code>, suitable for debugging. If the XML
 * representation of the <code>Comment</code> is desired,
 * [ @link org.jdom.output.XMLOutputter#outputString(Comment) ]
 * should be used.
 * @return <code>String</code> - information about the
 *     <code>Attribute</code>
 */
public String toString() {
    return new StringBuffer()
            .append("[Comment: 

            .append(new org.jdom.output.XMLOutputter().outputString(this))
            .append("]
            .toString();
}
1.742 jdom b10

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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 "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 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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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").

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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.

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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, 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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The binary file of the original library has been modified by Atlassian in such way that classes have changed their package names from 'org.jfree' to 'clover.org.jfree'. 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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    Version 2.1, February 1999

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Modifying 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 'org.apache.velocity' to 'clover.org.apache.velocity'. 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 binary file of the original library has been modified by Atlassian in such way that classes have changed their package names from 'com.keypoint/org.jfree' to 'clover.com.keypoint/clover.org.jfree'. 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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Because of this blurred distinction, using the ordinary General
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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
<http://mootools.net/license.txt>.

Author:

Nicolas Garcia Belmonte

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Homepage:

<http://thejit.org>

Version:

1.1.2

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their package names from the 'org.apache.commons' to the 'clover.org.apache.commons'. 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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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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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.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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Version 3, 29 June 2007


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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
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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
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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
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6. As an exception to the Sections above, you may also combine or link a
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   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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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.)

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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.

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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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 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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1.779 jradius-core-1.1.4 1.1.4

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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.

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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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1.785 jrobin 1.5.14

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That's all there is to it!

/* ==============================================================
* JRobin : Pure java implementation of RRDTool's functionality
* ==============================================================
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* 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="../../man/rrdcreate.html" 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;

   /**
    * 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="../../../../man/rrdcreate.html" 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;
/**
 * 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;
}

1.786 jrobin 1.5.9

1.786.1 Available under license:

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That's all there is to it!

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* JRobin : Pure java implementation of RRDTool's functionality
* ==============================================================
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* Project Lead: Sasa Markovic (saxon@jrobin.org);
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* library; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330,
* 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="../man/rrdcreate.html" target="man">rrdcreate man page</a></p>

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

*/

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;

/**
 * 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="../man/rrdcreate.html" 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
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;
}

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

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/**
 * This provides static methods to convert comma delimited text into a
 * JSONArray, and to covert 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 is 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 JSONObjects.
 * The names for the elements in the JSONObjects can be taken from the names
 * in the first row.
 *<p>
 * @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 JSONTokener 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(JSONTokener x) throws JSONException {
    char c;
    char q;
    StringBuffer sb;
    do {
        c = x.next();
    } while (c == ' ' || c == '	');
    switch (c) {
        case 0:
return null;
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.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);
} else {
    sb.append(string);
}
}
}
sb.append('"');
return sb.toString();

/**
 * Produce a JSONArray of JSONObjects 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 JSONObjects.
 * @throws JSONException
 */
public static JSONArray toJSONArray(String string) throws JSONException {
    return toJSONArray(new JSONTokener(string));
}

/**
 * Produce a JSONArray of JSONObjects 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 JSONObjects.
 * @throws JSONException
 */
public static JSONArray toJSONArray(JSONArray names, String string) throws JSONException {
    return toJSONArray(names, new JSONTokener(string));
}
/**
 * Produce a JSONArray of JSONObjects 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 JSONObjects.
 * @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 JSONObjects. The
 * first row will be a list of names obtained by inspecting the first
 * JSONObject.
 * @param ja A JSONArray of JSONObjects.
 * @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 JSONObjects 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 JSONObjects.
 * @return A comma delimited text.
 * @throws JSONException
 */

class JSONArray {
    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.toString(names)));
            }
        }
        return sb.toString();
    }
}

1.796 json-lib 2.4
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1.797 json-lib 2.3
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1.799 jsp-api 2.2

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1.812 JUnit 4.5

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JPython was created in late 1997 by Jim Hugunin. Jim was also the primary developer while he was at CNRI. In February 1999 Barry Warsaw took over as primary developer and released JPython version 1.1.

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 reimplementation 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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*/
/*
* 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.
*/

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 = index;
            while (k < len) {
                s1 += buf[k] & 0xff;
                s2 += (buf[k] & 0xff) * BASE;
                k++;
            }
            long tmp = (s1 + s2) & 0xffff;
            s1 = s2;
            s2 = tmp;
        }
        return s1 + s2;
    }
}
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;
    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();
}
*/
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x-->fx[v][fff' <llll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][ll][l
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# PC Screen (console) Fonts - psf1 header

0
leshort 0x0436 psf screen font data
>2 byte 0 256 characters, no index
>2 byte 1 512 characters, no index
2byte2256 characters, Unicode index
2byte3512 characters, Unicode index
2byte4256 characters, Unicode level 2 index
2byte5512 characters, Unicode level 2 index
3byte8x%d

# PC Screen (console) Fonts - psf2 header

0
lelong 0x864ab572 psf2 screen font data
>12 lelong & 1 with Unicode index
>16 lelong x b, %d glyphs
>28 lelong x b, %dx
>24 lelong x b %d

---

1.825 kbd-misc 1.15.5 :13.el7
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7962
# PC Screen (console) Fonts - psf1 header

- leshort: 0x0436
  - Character set: 0x0000 to 0x255
  - No index

- byte: 0
  - Character set: 0x0000 to 0x511
  - No index

- byte: 1
  - Character set: 0x0000 to 0x511
  - Unicode index

- byte: 2
  - Character set: 0x0000 to 0x511
  - Unicode level 2 index

- byte: 3
  - Character set: 0x0000 to 0x511
  - Unicode level 2 index

# PC Screen (console) Fonts - psf2 header

- lelong: 0x864ab572
  - Character set: 0x0000 to 0x8000
  - Unicode index

- lelong: 0x864ab572
  - Character set: 0x0000 to 0x8000
  - %d glyphs

- lelong: 0x864ab572
  - Character set: 0x0000 to 0x8000
  - %dx

- lelong: 0x864ab572
  - Character set: 0x0000 to 0x8000
  - %dx

- character: 0
  - Character set: 0x0000 to 0x8000
  - %dx
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spawn_console.c spawn_login.c
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rJ
~-----~[888][<<<<<<<<<<fBBf<2xx<<ff<<<<<<<<<<<<<<0'00000pecececg<<<<<<<<<fffffff[8]1kl[8]<<<<<<<<<0'00000l88<<
<fssssssssssss0'88l8v000'00000000f<-[0-0]'88l8x0-[0]1[8]0000][0][0000][0]---0'00000---0'0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0][0]}
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However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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   table, the facility still operates, and performs whatever part of
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c) 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 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.

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Rebecca Schultz Zavin
Bhavin Shah
Andy Shevchenko
Jeff Taylor
Roman Tereshonkov
Armando Uribe de Leon
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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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        || strcmp(license, "GPL v2") == 0
        || strcmp(license, "GPL and additional rights") == 0
        || strcmp(license, "Dual BSD/GPL") == 0
        || strcmp(license, "Dual MIT/GPL") == 0
        || strcmp(license, "Dual MPL/GPL") == 0);
}

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Thanks go to the following people for patches and contributions:

Michael Hunold <m.hunold@gmx.de>
for the initial saa7146 driver and its recent overhaul

Christian Theiss
for his work on the initial Linux DVB driver

Marcus Metzler <mocm@metzlerbros.de>
Ralph Metzler <rjkm@metzlerbros.de>
for their continuing work on the DVB driver

Michael Holzt <kju@debian.org>
for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

Martin Schaller <martin@smurf.franken.de>
for patching the cable card decoder driver

Klaus Schmidinger <Klaus.Schmidinger@cadsoft.de>
for various fixes regarding tuning, OSD and CI stuff and his work on VDR

Steve Brown <sbrown@cortland.com>
for his AFC kernel thread

Christoph Martin <martin@uni-mainz.de>
for his LIRC infrared handler

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Ronny Strutz <3des@elitedvb.de>
Wolfram Joost <dbox2@frokaschwei.de>
...and all the other dbox2 people
for many bugfixes in the generic DVB Core, frontend drivers and
their work on the dbox2 port of the DVB driver

Oliver Endriss <o.endriss@gmx.de>
for many bugfixes

Andrew de Quincey <adq_dvb@lidskialf.net>
for the tda1004x frontend driver, and various bugfixes

Peter Schildmann <peter.schildmann@web.de>
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Roberto Ragusa <r.ragusa@libero.it>
Augusto Cardoso <augusto@carhil.net>
for all the work for the FlexCopII chipset by B2C2,Inc.

Davor Emard <emard@softhome.net>
for his work on the budget drivers, the demux code,
the module unloading problems, ...

Hans-Frieder Vogt <hfvogt@arcor.de>
for his work on calculating and checking the crc's for the
TechnoTrend/Hauppauge DEC driver firmware

Michael Dreher <michael@5dot1.de>
Andreas 'randy' Weinberger
for the support of the Fujitsu-Siemens Activy budget DVB-S

Kenneth Aafly <ke-aa@frisurf.no>
for adding support for Typhoon DVB-S budget card

Ernst Peinlich <e.peinlich@inode.at>
for tuning/DiSEqC support for the DEC 3000-s

Peter Beutner <p.beutner@gmx.net>
for the IR code for the ttusb-dec driver

Wilson Michaels <wilsonmichaels@earthlink.net>
for the lgdt330x frontend driver, and various bugfixes

Michael Krufky <smkrufky@m1k.net>
for maintaining v4l/dvb inter-tree dependencies

Taylor Jacob <rtjacob@earthlink.net>
for the nxt2002 frontend driver

Jean-Francois Thibert <jeanfrancois@sagetv.com>
for the nxt2004 frontend driver

Kirk Lapray <kirk.lapray@gmail.com>
for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

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<signature of Ty Coon>, 1 April 1989
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functions (ten lines or less in length), then the use of the object
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Yoyodyne, Inc., hereby disclaims all copyright interest in the
library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

That's all there is to it!
/* 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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static inline int license_is_gpl_compatible(const char *license)
{
    return (strcmp(license, "GPL") == 0
            || strcmp(license, "GPL v2") == 0
            || strcmp(license, "GPL and additional rights") == 0
            || strcmp(license, "Dual BSD/GPL") == 0
            || strcmp(license, "Dual MIT/GPL") == 0
            || strcmp(license, "Dual MPL/GPL") == 0);
}

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Version 2, June 1991

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Thanks go to the following people for patches and contributions:

Michael Hunold <m.hunold@gmx.de>
for the initial saa7146 driver and it's recent overhaul

Christian Theiss
for his work on the initial Linux DVB driver

Marcus Metzler <mocm@metzlerbros.de>
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for their continuing work on the DVB driver

Michael Holzt <kju@debian.org>
for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

Martin Schaller <martin@smurf.franken.de>
for patching the cable card decoder driver

Klaus Schmidinger <Klaus.Schmidinger@cadsoft.de>
for various fixes regarding tuning, OSD and CI stuff and his work on VDR

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for his AFC kernel thread

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...and all the other dbox2 people
for many bugfixes in the generic DVB Core, frontend drivers and
their work on the dbox2 port of the DVB driver

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for many bugfixes

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for all the work for the FlexCopII chipset by B2C2,Inc.

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for his work on the budget drivers, the demux code,
the module unloading problems, ...

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for his work on calculating and checking the crc's for the
TechnoTrend/Hauppauge DEC driver firmware

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for the lgdt330x frontend driver, and various bugfixes

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for maintaining v4l/dvb inter-tree dependencies

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Kirk Lapray <kirk.lapray@gmail.com>
for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

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1.828 kernel 3.10.0 :862.14.4.el7
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    Christian Theiss
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    Marcus Metzler <mocm@metzlerbros.de>
    Ralph Metzler <rjkm@metzlerbros.de>
    for their continuing work on the DVB driver

    Michael Holzt <kju@debian.org>
    for his contributions to the dvb-net driver

    Diego Picciani <d.picciani@novacomp.it>
    for CyberLogin for Linux which allows logging onto EON
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Martin Schaller <martin@smurf.franken.de>
for patching the cable card decoder driver

Klaus Schmidinger <Klaus.Schmidinger@cadsoft.de>
for various fixes regarding tuning, OSD and CI stuff and his work on VDR

Steve Brown <sbrown@cortland.com>
for his AFC kernel thread

Christoph Martin <martin@uni-mainz.de>
for his LIRC infrared handler

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Wolfram Joost <dbox2@frokaschwei.de>
...and all the other dbox2 people
for many bugfixes in the generic DVB Core, frontend drivers and
their work on the dbox2 port of the DVB driver

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for many bugfixes

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for the tda1004x frontend driver, and various bugfixes

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Roberto Ragusa <r.ragusa@libero.it>
Augusto Cardoso <augusto@carhil.net>
for all the work for the FlexCopII chipset by B2C2,Inc.

Davor Emard <emard@softhome.net>
for his work on the budget drivers, the demux code,
the module unloading problems, ...

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for his work on calculating and checking the crc's for the
TechnoTrend/Hauppauge DEC driver firmware

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Andreas ‘randy’ Weinberger
for the support of the Fujitsu-Siemens Activy budget DVB-S

Kenneth Aafly <ke-aa@frisurf.no>
for adding support for Typhoon DVB-S budget card

Ernst Peinlich <e.peinlich@inode.at>
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Peter Beutner <p.beutner@gmx.net>
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Taylor Jacob <rtjacob@earthlink.net>
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for the nxt2004 frontend driver

Kirk Lapray <kirk.lapray@gmail.com>
for the or51211 and or51132 frontend drivers, and
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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Version 1.0

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

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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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{
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           || strcmp(license, "GPL and additional rights") == 0
           || strcmp(license, "Dual BSD/GPL") == 0
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}
#endif

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Michael Hunold <m.hunold@gmx.de>
  for the initial saa7146 driver and its recent overhaul

Christian Theiss
  for his work on the initial Linux DVB driver

Marcus Metzler <mocm@metzlerbros.de>
Ralph Metzler <rjkm@metzlerbros.de>
  for their continuing work on the DVB driver

Michael Holzt <kju@debian.org>
  for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>
  for CyberLogin for Linux which allows logging onto EON
  (in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

Martin Schaller <martin@smurf.franken.de>
  for patching the cable card decoder driver

Klaus Schmidinger <Klaus.Schmidinger@cadsoft.de>
  for various fixes regarding tuning, OSD and CI stuff and his work on VDR

Steve Brown <sbrown@cortland.com>
  for his AFC kernel thread

Christoph Martin <martin@uni-mainz.de>
for his LIRC infrared handler

Andreas Oberritter <obi@linuxtv.org>
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Ronny Strutz <3des@elitedvb.de>
Wolfram Joost <dbox2@frokaschwei.de>
...and all the other dbox2 people
for many bugfixes in the generic DVB Core, frontend drivers and
their work on the dbox2 port of the DVB driver

Oliver Endriss <o.endriss@gmx.de>
for many bugfixes

Andrew de Quincey <adq_dvb@lidskialf.net>
for the tda1004x frontend driver, and various bugfixes

Peter Schildmann <peter.schildmann@web.de>
for the driver for the Technisat SkyStar2 PCI DVB card

Vadim Catana <skystar@moldova.cc>
Roberto Ragusa <r.ragusa@libero.it>
Augusto Cardoso <augusto@carhil.net>
for all the work for the FlexCopII chipset by B2C2,Inc.

Davor Emard <emard@softhome.net>
for his work on the budget drivers, the demux code,
the module unloading problems, ...

Hans-Frieder Vogt <hfvogt@arcor.de>
for his work on calculating and checking the crc's for the
TechnoTrend/Hauppauge DEC driver firmware

Michael Dreher <michael@5dot1.de>
Andreas 'randy' Weinberger
for the support of the Fujitsu-Siemens Activy budget DVB-S

Kenneth Aafly <ke-aa@frisurf.no>
for adding support for Typhoon DVB-S budget card

Ernst Peinlich <e.peinlich@inode.at>
for tuning/DiSEqC support for the DEC 3000-s

Peter Beutner <p.beutner@gmx.net>
for the IR code for the ttusb-dec driver

Wilson Michaels <wilsonmichaels@earthlink.net>
for the lgdt330x frontend driver, and various bugfixes

Michael Krufky <mkrufky@m1k.net>
for maintaining v4l/dvb inter-tree dependencies

Taylor Jacob <rtjacob@earthlink.net>
for the nxt2002 frontend driver

Jean-Francois Thibert <jeanfrancois@sagetv.com>
for the nxt2004 frontend driver

Kirk Lapray <kirk.lapray@gmail.com>
for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

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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
 *
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M. Welsh, 6 July 1996

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static inline int license_is_gpl_compatible(const char *license)
return (strcmp(license, "GPL") == 0
 || strcmp(license, "GPL v2") == 0
 || strcmp(license, "GPL and additional rights") == 0
 || strcmp(license, "Dual BSD/GPL") == 0
 || strcmp(license, "Dual MIT/GPL") == 0
 || strcmp(license, "Dual MPL/GPL") == 0);
}

#endif

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QLogic Linux qlge NIC Driver

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for the initial saa7146 driver and its recent overhaul

Christian Theiss
for his work on the initial Linux DVB driver

Marcus Metzler <mocm@metzlerbros.de>
Ralph Metzler <rjkm@metzlerbros.de>
for their continuing work on the DVB driver

Michael Holzt <kju@debian.org>
for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

Martin Schaller <martin@smurf.franken.de>
for patching the cable card decoder driver

Klaus Schmidinger <Klaus.Schmidinger@cadsoft.de>
for various fixes regarding tuning, OSD and CI stuff and his work on VDR

Steve Brown <sbrown@cortland.com>
for his AFC kernel thread

Christoph Martin <martin@uni-mainz.de>
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...and all the other dbox2 people
for many bugfixes in the generic DVB Core, frontend drivers and their work on the dbox2 port of the DVB driver
Oliver Endriss <o.endriss@gmx.de>
for many bugfixes

Andrew de Quincey <adq_dvb@lidskialf.net>
for the tda1004x frontend driver, and various bugfixes

Peter Schildmann <peter.schildmann@web.de>
for the driver for the Technisat SkyStar2 PCI DVB card

Vadim Catana <skystar@moldova.cc>
Roberto Ragusa <r.ragusa@libero.it>
Augusto Cardoso <augusto@carhil.net>
for all the work for the FlexCopII chipset by B2C2,Inc.

Davor Emard <emard@softhome.net>
for his work on the budget drivers, the demux code,
the module unloading problems, ...

Hans-Frieder Vogt <hfvogt@arcor.de>
for his work on calculating and checking the crc's for the
TechnoTrend/Hauppauge DEC driver firmware

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Andreas 'randy' Weinberger
for the support of the Fujitsu-Siemens Activy budget DVB-S

Kenneth Aafly <ke-aa@frisurf.no>
for adding support for Typhoon DVB-S budget card

Ernst Peinlich <e.peinlich@inode.at>
for tuning/DiSEqC support for the DEC 3000-s

Peter Beutner <p.beutner@gmx.net>
for the IR code for the ttusb-dec driver

Wilson Michaels <wilsonmichaels@earthlink.net>
for the lgdt330x frontend driver, and various bugfixes

Michael Krufky <mkrufty@m1k.net>
for maintaining v4l/dvb inter-tree dependencies

Taylor Jacob <rtjacob@earthlink.net>
for the nxt2002 frontend driver

Jean-Francois Thibert <jeanfrancois@sagetv.com>
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Kirk Lapray <kirk.lapray@gmail.com>
for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
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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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\*
\* M. Welsh, 6 July 1996
\*
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Michael Hunold <m.hunold@gmx.de>
for the initial saa7146 driver and its recent overhaul

Christian Theiss
for his work on the initial Linux DVB driver
Marcus Metzler <mocm@metzlerbros.de>
Ralph Metzler <rjkm@metzlerbros.de>
for their continuing work on the DVB driver

Michael Holzt <kju@debian.org>
for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

Martin Schaller <martin@smurf.franken.de>
for patching the cable card decoder driver

Klaus Schmidinger <Klaus.Schmidinger@cadsoft.de>
for various fixes regarding tuning, OSD and CI stuff and his work on VDR

Steve Brown <sbrown@cortland.com>
for his AFC kernel thread

Christoph Martin <martin@uni-mainz.de>
for his LIRC infrared handler

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Wolfram Joost <dbox2@frokaschwei.de>
...and all the other dbox2 people
for many bugfixes in the generic DVB Core, frontend drivers and
their work on the dbox2 port of the DVB driver

Oliver Endriss <o.endriss@gmx.de>
for many bugfixes

Andrew de Quincey <adq_dvb@lidskialf.net>
for the tda1004x frontend driver, and various bugfixes

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Vadim Catana <skystar@moldova.cc>
Roberto Ragusa <r.ragusa@libero.it>
Augusto Cardoso <augusto@carhil.net>
for all the work for the FlexCopII chipset by B2C2, Inc.
Davor Emard <emard@softhome.net>
for his work on the budget drivers, the demux code, the module unloading problems, ...

Hans-Frieder Vogt <hfvogt@arcor.de>
for his work on calculating and checking the crc's for the TechnoTrend/Hauppauge DEC driver firmware

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Andreas 'randy' Weinberger
for the support of the Fujitsu-Siemens Activy budget DVB-S

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for adding support for Typhoon DVB-S budget card

Ernst Peinlich <e.peinlich@inode.at>
for tuning/DiSEqC support for the DEC 3000-s

Peter Beutner <p.beutner@gmx.net>
for the IR code for the ttusb-dec driver

Wilson Michaels <wilsonmichaels@earthlink.net>
for the lgdt330x frontend driver, and various bugfixes

Michael Krufky <mkrufty@m1k.net>
for maintaining v4l/dvb inter-tree dependencies

Taylor Jacob <rtjacob@earthlink.net>
for the ntx2002 frontend driver

Jean-Francois Thibert <jeanfrancois@sagetv.com>
for the ntx2004 frontend driver

Kirk Lapray <kirk.lapray@gmail.com>
for the or51211 and or51132 frontend drivers, and for merging the ntx2002 and ntx2004 modules into a single ntx200x frontend driver.

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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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M. Welsh, 6 July 1996

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Thanks go to the following people for patches and contributions:

Michael Hunold <m.hunold@gmx.de>
for the initial saa7146 driver and its recent overhaul

Christian Theiss
for his work on the initial Linux DVB driver

Marcus Metzler <mocm@metzlerbros.de>
Ralph Metzler <rjkm@metzlerbros.de>
for their continuing work on the DVB driver

Michael Holzt <kju@debian.org>
for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

Martin Schaller <martin@smurf.franken.de>
for patching the cable card decoder driver

Klaus Schmidinger <Klaus.Schmidinger@cadsoft.de>
for various fixes regarding tuning, OSD and CI stuff and his work on VDR

Steve Brown <sbrown@cortland.com>
for his AFC kernel thread

Christoph Martin <martin@uni-mainz.de>
for his LIRC infrared handler

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Ronny Strutz <3des@elitedvb.de>
Wolfram Joost <dbox2@frokaschwei.de>
...and all the other dbox2 people
for many bugfixes in the generic DVB Core, frontend drivers and
their work on the dbox2 port of the DVB driver

Oliver Endriss <o.endriss@gmx.de>
for many bugfixes

Andrew de Quincey <adq_dvb@lidskialf.net>
for the tda1004x frontend driver, and various bugfixes

Peter Schildmann <peter.schildmann@web.de>
for the driver for the Technisat SkyStar2 PCI DVB card

Vadim Catana <skystar@moldova.cc>
Roberto Ragusa <r.ragusa@libero.it>
Augusto Cardoso <augusto@carhil.net>
for all the work for the FlexCopII chipset by B2C2,Inc.

Davor Emard <emard@softhome.net>
for his work on the budget drivers, the demux code,
the module unloading problems, ...

Hans-Frieder Vogt <hfvogt@arcor.de>
for his work on calculating and checking the crc's for the
TechnoTrend/Hauppauge DEC driver firmware

Michael Dreher <michael@5dot1.de>
Andreas 'randy' Weinberger
for the support of the Fujitsu-Siemens Activy budget DVB-S

Kenneth Aafly <ke-aa@frisurf.no>
for adding support for Typhoon DVB-S budget card

Ernst Peinlich <e.peinlich@inode.at>
for tuning/DiSEqC support for the DEC 3000-s

Peter Beutner <p.beutner@gmx.net>
for the IR code for the ttusb-dec driver

Wilson Michaels <wilsonmichaels@earthlink.net>
for the lgdt330x frontend driver, and various bugfixes

Michael Krufky <mkrufty@m1k.net>
for maintaining v4l/dvb inter-tree dependencies

Taylor Jacob <rtjacob@earthlink.net>
for the nxt2002 frontend driver
Jean-Francois Thibert <jeanfrancois@sagetv.com>
for the nxt2004 frontend driver

Kirk Lapray <kirk.lapray@gmail.com>
for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

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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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Version 3, 29 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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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, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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"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.

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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.)

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

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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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Michael Hunold <m.hunold@gmx.de>
for the initial saa7146 driver and its recent overhaul

Christian Theiss
for his work on the initial Linux DVB driver

Marcus Metzler <mocm@metzlerbros.de>
Ralph Metzler <rjkm@metzlerbros.de>
for their continuing work on the DVB driver

Michael Holzt <kju@debian.org>
for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

Martin Schaller <martin@smurf.franken.de>
for patching the cable card decoder driver

Klaus Schmidinger <Klaus.Schmidinger@cadsoft.de>
for various fixes regarding tuning, OSD and CI stuff and his work on VDR

Steve Brown <sbrown@cortland.com>
for his AFC kernel thread

Christoph Martin <martin@uni-mainz.de>
for his LIRC infrared handler

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Ronny Strutz <3des@elitedvb.de>
Wolfram Joost <dbox2@frokaschwei.de>
...and all the other dbox2 people
for many bugfixes in the generic DVB Core, frontend drivers and
their work on the dbox2 port of the DVB driver

Oliver Endriss <o.endriss@gmx.de>
for many bugfixes

Andrew de Quincey <adq_dvb@lidskialf.net>
for the tda1004x frontend driver, and various bugfixes

Peter Schildmann <peter.schildmann@web.de>
for the driver for the Technisat SkyStar2 PCI DVB card

Vadim Catana <skystar@moldova.cc>
Roberto Ragusa <r.ragusa@libero.it>
Augusto Cardoso <augusto@carhil.net>
for all the work for the FlexCopII chipset by B2C2,Inc.

Davor Emard <emard@softhome.net>
for his work on the budget drivers, the demux code,
the module unloading problems, ...

Hans-Frieder Vogt <hfvogt@arcor.de>
for his work on calculating and checking the crc's for the
TechnoTrend/Hauppauge DEC driver firmware
Michael Dreher <michael@5dot1.de>
Andreas 'randy' Weinberger
for the support of the Fujitsu-Siemens Activy budget DVB-S

Kenneth Aafly <ke-aa@frisurf.no>
for adding support for Typhoon DVB-S budget card

Ernst Peinlich <e.peinlich@inode.at>
for tuning/DiSEqC support for the DEC 3000-s

Peter Beutner <p.beutner@gmx.net>
for the IR code for the ttusb-dec driver

Wilson Michaels <wilsonmichaels@earthlink.net>
for the lgdt330x frontend driver, and various bugfixes

Michael Krufky <mkrufky@m1k.net>
for maintaining v4l/dvb inter-tree dependencies

Taylor Jacob <rtjacob@earthlink.net>
for the nxt2002 frontend driver

Jean-Francois Thibert <jeanfrancois@sagetv.com>
for the nxt2004 frontend driver

Kirk Lapray <kirk.lapray@gmail.com>
for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
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Thanks go to the following people for patches and contributions:

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for the initial saa7146 driver and its recent overhaul

Christian Theiss
for his work on the initial Linux DVB driver

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for their continuing work on the DVB driver

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Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

Martin Schaller <martin@smurf.franken.de>
for patching the cable card decoder driver

Klaus Schmidinger <Klaus.Schmidinger@cadsoft.de>
for various fixes regarding tuning, OSD and CI stuff and his work on VDR

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...and all the other dbox2 people
for many bugfixes in the generic DVB Core, frontend drivers and
their work on the dbox2 port of the DVB driver

Oliver Endriss <o.endriss@gmx.de>
for many bugfixes

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for the tda1004x frontend driver, and various bugfixes

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for all the work for the FlexCopII chipset by B2C2, Inc.

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for his work on the budget drivers, the demux code,
the module unloading problems, ...

Hans-Frieder Vogt <hfvogt@arcor.de>
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TechnoTrend/Hauppauge DEC driver firmware

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for the lgdt330x frontend driver, and various bugfixes

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for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
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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.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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"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.

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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 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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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.

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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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b) 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.

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<signature of Ty Coon>, 1 April 1990
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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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*
* M. Welsh, 6 July 1996
*
* */

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Michael Hunold <m.hunold@gmx.de>
for the initial saa7146 driver and its recent overhaul

Christian Theiss
for his work on the initial Linux DVB driver

Marcus Metzler <mocm@metzlerbros.de>
Ralph Metzler <rjkm@metzlerbros.de>
for their continuing work on the DVB driver

Michael Holzt <kju@debian.org>
for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

Martin Schaller <martin@smurf.franken.de>
for patching the cable card decoder driver

Klaus Schmidinger <Klaus.Schmidinger@cadsoft.de>
for various fixes regarding tuning, OSD and CI stuff and his work on VDR

Steve Brown <sbrown@cortland.com>
for his AFC kernel thread

Christoph Martin <martin@uni-mainz.de>
for his LIRC infrared handler

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Ronny Strutz <3des@elitedvb.de>
Wolfram Joost <dbox2@frokaschwei.de>
...and all the other dbox2 people
for many bugfixes in the generic DVB Core, frontend drivers and their work on the dbox2 port of the DVB driver
Oliver Endriss <o.endriss@gmx.de>
for many bugfixes

Andrew de Quincey <adq_dvb@lidskialf.net>
for the tda1004x frontend driver, and various bugfixes

Peter Schildmann <peter.schildmann@web.de>
for the driver for the Technisat SkyStar2 PCI DVB card

Vadim Catana <skystar@moldStar.cc>
Roberto Ragusa <r.ragusa@libero.it>
Augusto Cardoso <augusto@carhil.net>
for all the work for the FlexCopII chipset by B2C2,Inc.

Davor Emard <davor@softhome.net>
for his work on the budget drivers, the demux code,
the module unloading problems, ...

Hans-Frieder Vogt <hfvogt@arcor.de>
for his work on calculating and checking the crc’s for the
TechnoTrend/Hauppauge DEC driver firmware

Michael Dreher <michael@5dot1.de>
Andreas ‘randy’ Weinberger
for the support of the Fujitsu-Siemens Activy budget DVB-S

Kenneth Aafly <ke-aa@frisurf.no>
for adding support for Typhoon DVB-S budget card

Ernst Peinlich <e.peinlich@inode.at>
for tuning/DiSEqC support for the DEC 3000-s

Peter Beutner <p.beutner@gmx.net>
for the IR code for the ttusb-dec driver

Wilson Michaels <wilsonmichaels@earthlink.net>
for the lgdt330x frontend driver, and various bugfixes

Michael Krufky <mkrufky@m1k.net>
for maintaining v4l/dvb inter-tree dependencies

Taylor Jacob <rtjacob@earthlink.net>
for the nxt2002 frontend driver

Jean-Francois Thibert <jeanfrancois@sagetv.com>
for the nxt2004 frontend driver

Kirk Lapray <kirk.lapray@gmail.com>
for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
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1.835 keyutils-libs 1.5.8 :3.el7
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1.837 kmod 20 :21.el7
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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.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_imp_name.c
```
```
lib/libgss/g_imp_sec_context.c
```
lib/libgss/g_init_sec_context.c
lib/libgss/g_initial.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
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lib/libgss/g_store_cred.c
lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
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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
and the initial implementation of incremental propagation, including the following new or changed files:

```
include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.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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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/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/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.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/kproplg.c

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<p>The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in</p>

```python
lib/gssapi/generic/gssapi_err_generic.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g Mechglue.c
lib/gssapi/mechglue/g mechglue.c
lib/gssapi/mechglue/g mechglue.c
```
Open Source Used In PI 3.5.1

- mechglue/g_compare_name.c
- mechglue/g_context_time.c
- mechglue/g_delete_sec_context.c
- mechglue/g_dsp_name.c
- mechglue/g_dsp_status.c
- mechglue/g_dup_name.c
- mechglue/g_exp_sec_context.c
- mechglue/g_export_name.c
- mechglue/g_glue.c
- mechglue/g_imp_name.c
- mechglue/g_imp_sec_context.c
- mechglue/g_init_sec_context.c
- mechglue/g_initiate.c
- mechglue/g_inquire_context.c
- mechglue/g_inquire_cred.c
- mechglue/g_inquire_names.c
- mechglue/g_compare_name.c
- mechglue/g_context_time.c
- mechglue/g_delete_sec_context.c
- mechglue/g_dsp_name.c
- mechglue/g_dsp_status.c
- mechglue/g_dup_name.c
- mechglue/g_exp_sec_context.c
- mechglue/g_export_name.c
- mechglue/g_glue.c
- mechglue/g_imp_name.c
- mechglue/g_imp_sec_context.c
- mechglue/g_initiate.c
- mechglue/g_inquire_context.c
- mechglue/g_inquire_cred.c
- mechglue/g_inquire_names.c

8911
and the initial implementation of incremental propagation, including
the following new or changed files:

- include/iprop_hdr.h
- kadmin/server/ipropd_svc.c
- lib/kdb/iprop.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/slave.kproplog.c

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   lib/gssapi/mechglue/g_acquire_cred.c
   lib/gssapi/mechglue/g_canon_name.c
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.. parsed-literal::

    include/iprop_hdr.h
    kadmin/server/ipropd_svc.c
    lib/kdb/iprop.x
    lib/kdb/kdb_convert.c
    lib/kdb/kdb_log.c
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(cmd/krb5/prop/prop_hdr.h
(cmd/krb5/kadmin/server/propd_svc.c
(cmd/krb5/kproplog/kproplog.c
(cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/etc/kdb5.err.c
lib/gss_mechs/mech_spnego/mecggssapiP_spnego.h
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import os
import sys
import re

def warn(fname, ln, msg):
    print '%s: %d: %s' % (fname, ln + 1, msg)

def indicates_license(line):
    return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line

# Check a comment for boilerplate violations. Return true if the comment
# is a license statement.
def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
    text_seen = False
    is_license = False
    for line in comment:
        if not is_license and indicates_license(line):
            is_license = True
        if text_seen:
            warn(fname, ln, 'License begins after first line of comment')
        elif code_seen:
            warn(fname, ln, 'License after code')
        elif nonlicense_seen:
            warn(fname, ln, 'License after non-license comments')
        break
        # DB2 licenses start with '/*-' and we don't want to change them.
        if line != '' and line != '-':
            text_seen = True
    return is_license

def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1
    # Check filename comment if present.
    m = re.match(r'/\* ([^ \]*)( - .*)? */\*', lines[ln])
    if m:
        if m.group(1) != fname:
            warn(fname, ln, 'Wrong filename in comment')
        ln += 1
    # Scan for license statements.
    in_comment = False
    code_seen = False
nonlicense_seen = False
for line in lines[ln:]:
    # Strip out whitespace and comments contained within a line.
    if not in_comment:
        line = re.sub(r'/\*.*?\*/', '', line)
    line = line.strip()

    if not in_comment and '/*' in line:
        (line, sep, comment_part) = line.partition('/*')
        comment = [comment_part.strip()]
        comment_starts_at = ln
        in_comment = True
    elif in_comment and '*/' not in line:
        comment.append(line.lstrip('*').lstrip())
    elif in_comment:
        (comment_part, sep, line) = line.partition('*/')
        comment.append(comment_part.strip())

    is_license = check_comment(comment, fname, comment_starts_at, code_seen, nonlicense_seen)
    nonlicense_seen = nonlicense_seen or not is_license
    in_comment = False
    elif line.strip() != '':
        code_seen = True
        ln += 1

for fname in sys.argv[1:]:
    if fname.startswith('./ '):
        fname = fname[2:]
    f = open(fname)
    lines = f.readlines()
    f.close()
    check_file(lines, fname)

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  *
.H//************************************************************************/
 #pragma prototyped

.H
 * bsd
 */

#define bsd_description \
"The BSD checksum."
#define bsd_options 0
#define bsd_match "bsd|ucb"
#define bsd_open long_open
#define bsd_init long_init
#define bsd_done short_done
#define bsd_print long_print
#define bsd_data long_data
#define bsd_scale 1024

static int
bsd_block (register Sum_t* p, const void* s, size_t n)
{
    register uint32_t c = ((Integral_t*)p)->sum;
    register unsigned char* b = (unsigned char*)s;
    register unsigned char* e = b + n;

    while (b < e)
    c = ((c >> 1) + *b++ + ((c & 01) ? 0x8000 : 0)) & 0xffff;
    ((Integral_t*)p)->sum = c;
    return 0;
}

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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.

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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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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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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
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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.

@item
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.

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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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.

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@enumerate
@item
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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@end enumerate

@ifex
@heading END OF TERMS AND CONDITIONS
@end ifex
@ifinfo
@center END OF TERMS AND CONDITIONS
@end ifinfo

@page
@appendixsubsec How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. 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.

@example

@var{one line to give the library's name and an idea of what it does.}

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@end example

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school, if any, to sign a `copyright disclaimer' for the library, if
necessary. Here is a sample; alter the names:

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'Frob' (a library for tweaking knobs) written by James Random Hacker.

@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample

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Version 2.1, February 1999

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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 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.

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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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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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a) Accompany the work with the complete corresponding
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changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
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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,
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will operate properly with a modified version of the library, if
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---

#1: 32 7648 0x83
#2: 7680 8704 0xa5
#5: 7936 4864 0x7 (freebsd)
#6: 12544 3584 0x7 (freebsd)

Initialize empty image

f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df055067c18f2cf9 bsd.img

---layout--------

__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot Start End Blocks Id System
-------------------
Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout--------

__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot Start End Blocks Id System
-------------------
__ts_dev__1 2048 4095 1024 83 Linux

Create 2st primary partition
1bebf87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type

Open Source Used In PI 3.5.1 3.5.1
---layout----------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

        Device Boot Start   End   Blocks   Id  System
__ts_dev__1          2048  4095   1024   83  Linux
__ts_dev__2          4096 20479   8192   a5  FreeBSD

-------------------
Create default BSD
2e1cee529cb59c9341afe0443f196a1 bsd.img

---layout----------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
#   start   end    size  ftype  [fsize bsize   cpg]
c:  4096  20479   16384 unused     0     0
d:    0  16064   16065 unused     0     0

BSD disklabel command (m for help):
Command (m for help):

-------------------

b5c121c2091b2ff26b880551feca7112 bsd.img

---layout----------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
# start end size fstype [fsise bsize cpg]
a:  4096  6144  2049  4.2BSD  0  0  0
b:     0     1     1  unused  0  0  0
c:  4096 20479 16384  unused  0  0
d:  0  16064 16065  unused  0  0

BSD disklabel command (m for help):
Command (m for help):

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
 0  unused   5  4.1BSD   9  4.4LFS   d  boot
 1  swap   6  Eighth Edition   a  unknown   e  ADOS
 2  Version 6  7  4.2BSD   b  HPFS   f  HFS
 3  Version 7  8  MS-DOS   c  ISO-9660  10  AdvFS
 4  System V

BSD disklabel command (m for help):
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^L

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1.853 libcollection 0.7.0-29.el7

1.854 libcom_err 1.42.9 :12.el7_5

1.854.1 Available under license:

This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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Theodore Ts'o
23-June-2007

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b) 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,

c) 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.)

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.

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END OF TERMS AND CONDITIONS

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.

<one line to give the program's name and a brief idea of what it does.>
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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:

    Gnomovision version 69, Copyright (C) 19yy 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.

    The hypothetical commands `show w' and `show c' should show the appropriate
    parts of the General Public License. Of course, the commands you use may
    be called something other than `show w' and `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:

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

    <signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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.

# 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) $(LDFLAGS) $(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)
/*

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the suitability of this software for any purpose. It is
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*/
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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1.855 libcroco 0.6.11 :1.el7

1.855.1 Available under license :

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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.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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"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.

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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.

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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.

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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.)

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Appendix: How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. 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.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>
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Also add information on how to contact you by electronic and paper mail.

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

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

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

That's all there is to it!

1.856 libcurl 7.29.0 :35.el7
1.856.1 Available under license :
License Mixing with apps, libcurl and Third Party Libraries
===========================================================

libcurl can be built to use a fair amount of various third party libraries, libraries that are written and provided by other parties that are distributed using their own licenses. Even libcurl itself contains code that may cause problems to some. This document attempts to describe what licenses libcurl and the other libraries use and what possible dilemmas linking and mixing them all can lead to for end users.

I am not a lawyer and this is not legal advice!

One common dilemma is that GPL[1]-licensed code is not allowed to be linked with code licensed under the Original BSD license (with the announcement clause). You may still build your own copies that use them all, but distributing them as binaries would be to violate the GPL license - unless you
accompany your license with an exception[2]. This particular problem was addressed when the Modified BSD license was created, which does not have the announcement clause that collides with GPL.

libcurl http://curl.haxx.se/docs/copyright.html

Uses an MIT (or Modified BSD)-style license that is as liberal as possible. Some of the source files that deal with KRB4 have Original BSD-style announce-clause licenses. You may not distribute binaries with krb4-enabled libcurl that also link with GPL-licensed code!

OpenSSL http://www.openssl.org/source/license.html

(May be used for SSL/TLS support) Uses an Original BSD-style license with an announcement clause that makes it “incompatible” with GPL. You are not allowed to ship binaries that link with OpenSSL that includes GPL code (unless that specific GPL code includes an exception for OpenSSL - a habit that is growing more and more common). If OpenSSL’s licensing is a problem for you, consider using GnuTLS or yassl instead.

GnuTLS http://www.gnutls.org/

(May be used for SSL/TLS support) Uses the LGPL[3] license. If this is a problem for you, consider using OpenSSL instead. Also note that GnuTLS itself depends on and uses other libs (libgcrypt and libgpg-error) and they too are LGPL- or GPL-licensed.

yassl http://www.yassl.com/

(May be used for SSL/TLS support) Uses the GPL[1] license. If this is a problem for you, consider using OpenSSL or GnuTLS instead.

NSS http://www.mozilla.org/projects/security/pki/nss/

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axTLS http://axtls.sourceforge.net/

(May be used for SSL/TLS support) Uses a Modified BSD-style license.

c-ares http://daniel.haxx.se/projects/c-ares/license.html

(Used for asynchronous name resolves) Uses an MIT license that is very
liberal and imposes no restrictions on any other library or part you may link with.

**zlib**  [http://www.gzip.org/zlib/zlib_license.html](http://www.gzip.org/zlib/zlib_license.html)

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

**krb4**

While nothing in particular says that a Kerberos4 library must use any particular license, the one I've tried and used successfully so far (kth-krb4) is partly Original BSD-licensed with the announcement clause. Some of the code in libcurl that is written to deal with Kerberos4 is Modified BSD-licensed.


(May be used for GSS support) MIT licensed, that shouldn't collide with any other parts.

**Heimdal** [http://www.pdc.kth.se/heimdal/](http://www.pdc.kth.se/heimdal/)

(May be used for GSS support) Heimdal is Original BSD licensed with the announcement clause.


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**fbopenssl**

(Used for SPNEGO support) Unclear license. Based on its name, I assume that it uses the OpenSSL license and thus shares the same issues as described for OpenSSL above.

**libidn** [http://josefsson.org/libidn/](http://josefsson.org/libidn/)

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OpenLDAP http://www.openldap.org/software/release/license.html

(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses OpenLDAP as a shared library only, I have not heard of anyone that ships OpenLDAP linked with libcurl in an app.

libssh2 http://www.libssh2.org/

(Used for scp and sftp support) libssh2 uses a Modified BSD-style license.

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1.857 libdaemon 0.14 :7.el7
1.857.1 Available under license:

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Version 2.1, February 1999
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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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(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 the Library into a program that is not a library.

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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.)

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uses the Library", as object code and/or source code, so that the
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executable containing the modified Library. (It is understood
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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
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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
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<meta name="keywords" content="embedded,database,programmatic,toolkit,btree,hash,hashing,transaction,transactions,locking,logging,access method,access methods,Java,C,C++"/>
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This package was debianized by Sam Clegg <samo@debian.org> on Tue, 25 Jul 2006 11:43:45 +0100.

It was downloaded from <http://www.ch-werner.de/sqliteodbc/>

Upstream Author: Christian Werner <chw@ch-werner.de>

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m/at/MT/MT2002/CODES/mt19937ar.c
https://bugzilla.redhat.com/show_bug.cgi?id=886838

Author: Ruben Rodriguez <ruben@trisquel.info>

--- db-5.3.21/src/crypto/mersenne/mt19937db.c.licensefix
+++ db-5.3.21/src/crypto/mersenne/mt19937db.c
@@ -16,16 +16,27 @@
    /*   Coded by Takuji Nishimura, considering the suggestions by    */
    /* Topher Cooper and Marc Rieffel in July-Aug. 1997.            */
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/* M. Matsumoto and T. Nishimura, */
/* "Mersenne Twister: A 623-Dimensionally Equidistributed Uniform Random Number Generator", */
/* $Id$ */
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Author: Ruben Rodriguez <ruben@trisquel.info>
1.860 libdc1394/gplv3-example-manpages

2.1.2 :3.4.el6

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1.866 libestr 0.1.9 :2.el7

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1.867 libevent2 2.0.21 :2.el6

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1.871 libgcc 4.8.5 :28.el7_5.1

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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.

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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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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
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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.)

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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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*Version 3, 29 June 2007*

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menu, a prominent item in the list meets this criterion.


The "source code" for a work means the preferred form of the work
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form of a work.

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Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form. A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

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the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities. However, it does not include the work's
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b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

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Version 3.1, 31 March 2009

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<table>
<thead>
<tr>
<th>Program</th>
<th>Directory</th>
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<tbody>
<tr>
<td>mach_override</td>
<td>lib/interception/mach_override</td>
</tr>
</tbody>
</table>

/* Definitions for BSD assembler syntax for Intel 386
   (actually AT&T syntax for insns and operands,
   adapted to BSD conventions for symbol names and debugging.)
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<http://www.gnu.org/licenses/>. */

/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using
   underscores, we are using prefix `.'s to identify labels that should
   be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "\t.byte\t"
define ASM_SHORT "\t.word\t"
define ASM_LONG "\t.long\t"
define ASM_QUAD "\t.quad\t" /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
  define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */
#define ASM_OUTPUT_SKIP(FILE, SIZE)  
    fprintf (FILE, "\t.space\" HOST_WIDE_INT_PRINT_UNSIGNED\"\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line to define a global common symbol. */
#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED)  
    ( fputs (.comm , (FILE)),
      assemble_name ((FILE), (NAME)),
      fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line to define a local common symbol. */
#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED)  
    ( fputs (.lcomm , (FILE)),
      assemble_name ((FILE), (NAME)),
      fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
    #define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT)  
        ( fputs (.lcomm , (FILE)),
          assemble_name ((FILE), (NAME)),
          fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line that says to advance the location counter by SIZE bytes. */
#define ASM_OUTPUT_ALIGN(FILE, LOG)  
    if ((LOG) != 0) fprintf ((FILE), "\t.align %d\n", (LOG))

/* This is how to store into the string BUF the symbol_ref name of an internal numbered label where PREFIX is the class of label and NUM is the number within the class. This is suitable for output with `assemble_name'. */
#define ASM_GENERATE_INTERNAL_LABEL(BUF, PREFIX, NUMBER)  
    sprintf ((BUF), `*%s%ld`, (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */
#define USER_LABEL_PREFIX "_"

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

@ignore
@setfilename gfdl
@settitle GNU Free Documentation License
@c man begin SEEALSO
gpl(7), fsf-funding(7).
@c man end
@c man begin COPYRIGHT
@uref{http://fsf.org/}
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.
@c This file is intended to be included within another document,
@c hence no sectioning command or @node.
@c man end
@end ignore
@c Special handling for inclusion in the install manual.
@ifset gfdlhtml
@ifnothtml
@comment node-name,     next,          previous, up
@node GNU Free Documentation License, Concept Index, Old, Top
@end ifnothtml
@html
<h1 align="center">Installing GCC: GNU Free Documentation License</h1>
@end html
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@heading How to Apply These Terms to Your New Programs

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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
state the exclusion of warranty; and each file should have at least
the ``copyright'' line and a pointer to where the full notice is found.

@example
@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 3 of the License, or (at
your option) any later version.

This program is distributed in the hope that it will be useful, but
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MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
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@end smallexample

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

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

@end smallexample
@var{program} Copyright (C) @var{year} @var{name of author}
This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}.
This is free software, and you are welcome to redistribute it under certain conditions; type @samp{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, your program's commands might be different; for a GUI interface, you would use an ``about box''.

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@end c man end
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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 (brazil@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dossersr.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@ntiame.mitia.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 Dossler provided Alpha/OSF/1 code. He and
Dave Detlefs (detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks (agc@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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#
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#
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# This script adjusts the copyright notices at the top of source files
# so that they have the form:
#
#   Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
# update-copyright.pl --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
# update-copyright.pl --this-year libjava
#
# would run the script on just libjava/.
#
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.

import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__ (self):
        self.num_errors = 0
def report (self, filename, string):
    if filename:
        string = filename + ' : ' + string
    sys.stderr.write (string + '\n')
    self.num_errors += 1

def ok (self):
    return self.num_errors == 0

class GenericFilter:
    def __init__ (self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set (['
            # Skip licence files.
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
            'COPYING3.LIB',
            'LICENSE',
            'rdoc.texi',
            'gpl_v3.texi',
            'rdoc-1.3.xml',
            'gpl-3.0.xml',

            # Skip auto- and libtool-related files
            'aclocal.m4',
            'compile',
            'config.guess',
            'config.sub',
            'depcomp',
            'install-sh',
            'libtool.m4',
            'ltmain.sh',
            'ltoptions.m4',
            'ltsugar.m4',
            'ltversion.m4',
            'lt~obsolete.m4',
            'missing',
            'mkdep',
            'mkinstalldirs',
            'move-if-change',
            'shlibpath.m4',
            'symlink-tree',

    def __enter__ (self):
        """Enter context management""

        self.skip = skip_files
        self.own_files = own_files
        return self

    def __exit__ (self, exc_type, exc_value, exc_traceback):
        """Exit context management""

        self.skip_files -= self.skip_files
        self.skip = set()
def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile ('\t')
    return None

def skip_file (self, dir, filename):
    if filename in self.skip_files:
        return True
    (base, extension) = os.path.splitext (os.path.join (dir, filename))
    if extension in self.skip_extensions:
        return True
    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists (base + '.am'):
            return True
    # Skip files produced by autogen
    if (os.path.exists (base + '.def')
            and os.path.exists (base + '.tpl')):
        return True
    # Skip configure files produced by autoconf
    if filename == 'configure':
        if os.path.exists (base + '.ac'):
            return True
        if os.path.exists (base + '.in'):
            return True
    return False

def skip_dir (self, dir, subdir):
    return subdir in self.skip_dirs
def is_fossilised_file(self, dir, filename):
    if filename in self.fossilised_files:
        return True
    # Only touch current ChangeLogs.
    if filename != 'ChangeLog' and filename.find('ChangeLog') >= 0:
        return True
    return False

def by_package_author(self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__(self, errors):
        self.errors = errors

        # Characters in a range of years. Include '.' for typos.
        ranges = '[0-9]+[-0-9.,\s]*[0-9]+'

        # Non-whitespace characters in a copyright holder's name.
        name = '[\w-.]+'

        # Matches one year.
        self.year_re = re.compile('[0-9]+')

        # Matches part of a year or copyright holder.
        self.continuation_re = re.compile(ranges + '|' + name)

        # Matches a full copyright notice:
        self.copyright_re = re.compile(
            'Copyright (C)'  # 1: 'Copyright (C)', etc.
            '@set\s+copyright\[\w-\]'  # 2: the years. Include the whitespace in the year, so that
            'by\s+@\s+\)'  # we can remove any excess.
            'by\s+@\s+\)'  # 3: 'by ', if used
            '@set\s+copyright\[\w-\]'  # 4: the copyright holder. Don't allow multiple consecutive
            )
# (e.g. gnat_ugn.texi).
'( + name + '(?:s?' + name + '+")?)'

# A regexp for notices that might have slipped by. Just matching
# 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile('copyright.*[0-9][0-9]',
    re.IGNORECASE)
self.comment_re = re.compile('#+|[*]+|;+|%+|//+|@c |dnl ')
self.holders = { '@copying': '@copying' }
self.holder_prefixes = set()

# True to 'quilt add' files before changing them.
sel.use_quilt = False

# If set, force all notices to include this year.
sel.max_year = None

# Goes after the year(s). Could be ',', '.
sel.separator = ','

def add_package_author (sel, holder, canon_form = None):
    if not canon_form:
        canon_form = holder
    sel.holders[holder] = canon_form
    index = holder.find (' ')
    while index >= 0:
        sel.holder_prefixes.add(holder[:index])
        index = holder.find (' ', index + 1)

def add_external_author (sel, holder):
    sel.holders[holder] = None

class BadYear():
    def __init__ (self, year):
        self.year = year

    def __str__ (self):
        return 'unrecognised year: ' + self.year

def parse_year (self, string):
    year = int (string)
    if len (string) == 2:
        if year > 70:
            return year + 1900
        elif len (string) == 4:
            return year
    raise self.BadYear (string)
def year_range(self, years):
    year_list = [self.parse_year(year)
                 for year in self.year_re.findall(years)]
    assert len(year_list) > 0
    return (min(year_list), max(year_list))

def set_use_quilt(self, use_quilt):
    self.use_quilt = use_quilt

def include_year(self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years(self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith('@value '):
        return years
    (min_year, max_year) = self.year_range(years)
    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file(dir, filename):
        max_year = max(max_year, self.max_year)
    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)

def strip_continuation(self, line):
    line = line.lstrip()
    match = self.comment_re.match(line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete(self, match):
    holder = match.group(4)
    return (holder
            and (holder not in self.holder_prefixes
                 or holder in self.holders))

def update_copyright(self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join(dir, filename)
intro = match.group(1)
if intro.startswith('@set'):
    # Texinfo year variables should always be on one line
    after_years = line[match.end(2):].strip()
    if after_years != '':
        self.errors.report(pathname,
                          'trailing characters in @set: ' + after_years)
        return (False, orig_line, next_line)
else:
    # If it looks like the copyright is incomplete, add the next line.
    while not self.is_complete(match):
        try:
            next_line = file.next()
        except StopIteration:
            break
        # If the next line doesn’t look like a proper continuation,
        # assume that what we’ve got is complete.
        continuation = self.strip_continuation(next_line)
        if not self.continuation_re.match(continuation):
            break
        # Merge the lines for matching purposes.
        orig_line += next_line
        line = line.rstrip() + ' ' + continuation
        next_line = None
        # Rematch with the longer line, at the original position.
        match = self.copyright_re.match(line, match.start())
        assert match

        holder = match.group(4)
        # Use the filter to test cases where markup is getting in the way.
        if filter.by_package_author(dir, filename):
            assert holder not in self.holders
        elif not holder:
            self.errors.report(pathname, 'missing copyright holder')
            return (False, orig_line, next_line)
        elif holder not in self.holders:
            self.errors.report(pathname,
                               'unrecognised copyright holder: ' + holder)
            return (False, orig_line, next_line)
else:
    # See whether the copyright is associated with the package
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start(4)]
            + canon_form
            + line[match.end(4):])

    # Remove any 'by'
    line = line[:match.start(3)] + line[match.end(3):]

    # Update the copyright years.
    years = match.group(2).strip()
    try:
        canon_form = self.canonicalise_years(dir, filename, filter, years)
    except self.BadYear as e:
        self.errors.report(pathname, str(e))
        return (False, orig_line, next_line)

    line = (line[:match.start(2)]
            + ' ' + canon_form + self.separator
            + line[match.end(2):])

    # Use the standard (C) form.
    if intro.endswith('right'):
        intro += ' (C)
    elif intro.endswith('c'):
        intro = intro[:-3] + '(C)
    line = line[:match.start(1)] + intro + line[match.end(1):]

    # Strip trailing whitespace
    line = line.rstrip() + '

    return (line != orig_line, line, next_line)

def process_file(self, dir, filename, filter):
    pathname = os.path.join(dir, filename)
    if filename.endswith('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove(pathname)
        except OSError:
            pass
    return
lines = []
changed = False
line_filter = filter.get_line_filter (dir, filename)
with open (pathname, 'r') as file:
  prev = None
  for line in file:
    while line:
      next_line = None
      # Leave filtered-out lines alone.
      if not (line_filter and line_filter.match (line)):
        match = self.copyright_re.search (line)
        if match:
          res = self.update_copyright (dir, filename, filter,
                                      file, line, match)
          (this_changed, line, next_line) = res
          changed = changed or this_changed

      # Check for copyright lines that might have slipped by.
      elif self.other_copyright_re.search (line):
        self.errors.report (pathname,
                            'unrecognised copyright: %s' % line.strip())
        lines.append (line)
        line = next_line

    # If something changed, write the new file out.
    if changed and self.errors.ok():
      tmp_pathname = pathname + '.tmp'
      with open (tmp_pathname, 'w') as file:
        for line in lines:
          file.write (line)
          if self.use_quilt:
            subprocess.call (['quilt', 'add', pathname])
      os.rename (tmp_pathname, pathname)

def process_tree (self, tree, filter):
  for (dir, subdirs, filenames) in os.walk (tree):
    # Don't recurse through directories that should be skipped.
    for i in xrange (len (subdirs) - 1, -1, -1):
      if filter.skip_dir (dir, subdirs[i]):
        del subdirs[i]

    # Handle the files in this directory.
    for filename in filenames:
      if filter.skip_file (dir, filename):
        sys.stdout.write ('Skipping %s\n' % os.path.join (dir, filename))
else:
    self.process_file (dir, filename, filter)

class CmdLine:
    def __init__ (self, copyright = Copyright):
        self.errors = Errors()
        self.copyright = copyright (self.errors)
        self.dirs = []
        self.default_dirs = []
        self.chosen_dirs = []
        self.option_handlers = dict()
        self.option_help = []

        self.add_option ('--help', 'Print this help', self.o_help)
        self.add_option ('--quilt', '"quilt add" files before changing them',
                        self.o_quilt)
        self.add_option ('--this-year', 'Add the current year to every notice',
                        self.o_this_year)

    def add_option (self, name, help, handler):
        self.option_help.append ((name, help))
        self.option_handlers[name] = handler

    def add_dir (self, dir, filter = GenericFilter()):
        self.dirs.append ((dir, filter))

    def o_help (self, option = None):
        sys.stdout.write ('Usage: %s [options] dir1 dir2...

Options:
' % sys.argv[0])
        format = '%-15s %s
'
        for (what, help) in self.option_help:
            sys.stdout.write (format % (what, help))
        sys.stdout.write ('
Directories:
')
        format = '%-25s'
        i = 0
        for (dir, filter) in self.dirs:
            i += 1
            if i % 3 == 0 or i == len (self.dirs):
                sys.stdout.write (dir + '\n')
            else:
                sys.stdout.write (format % dir)
        sys.exit (0)

    def o_quilt (self, option):
        self.copyright.set_use_quilt (True)

    def o_this_year (self, option):


def main(self):
    for arg in sys.argv[1:]:
        if arg[1] != '-':
            self.chosen_dirs.append(arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg](arg)
        else:
            self.errors.report(None, 'unrecognised option: ' + arg)
    if self.errors.ok():
        if len(self.chosen_dirs) == 0:
            self.chosen_dirs = self.default_dirs
        if len(self.chosen_dirs) == 0:
            self.o_help()
        else:
            for chosen_dir in self.chosen_dirs:
                canon_dir = os.path.join(chosen_dir, '')
                count = 0
                for (dir, filter) in self.dirs:
                    if (dir + os.sep).startswith(canon_dir):
                        count += 1
                self.copyright.process_tree(dir, filter)
                if count == 0:
                    self.errors.report(None, 'unrecognised directory: ' + chosen_dir)
            sys.exit(0 if self.errors.ok() else 1)

#--------------------------------------------------------------------------------------
class TopLevelFilter(GenericFilter):
    def skip_dir(self, dir, subdir):
        return True

class ConfigFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

    def skip_file(self, dir, filename):
        if filename.endswith('.m4'):
            pathname = os.path.join(dir, filename)
            with open(pathname) as file:
                # Skip files imported from gettext.
                if file.readline().find('gettext-') >= 0:
                    return True

    return GenericFilter.skip_file(self, dir, filename)

class GCCFilter(GenericFilter):
def __init__ (self):
    GenericFilter.__init__ (self)

    self.skip_files |= set ([
        # Not part of GCC
        'math-68881.h',
    ])

    self.skip_dirs |= set ([
        # Better not create a merge nightmare for the GNAT folks.
        'ada',

        # Handled separately.
        'testsuite',
    ])

    self.skip_extensions |= set ([
        # Maintained by the translation project.
        '.po',

        # Automatically-generated.
        '.pot',
    ])

    self.fossilised_files |= set ([
        # Old news won't be updated.
        'ONEWS',
    ])

class TestsuiteFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set ([
            # Don't change the tests, which could be woend by anyone.
            '.c',
            '.C',
            '.cc',
            '.h',
            '.hs',
            '.f',
            '.f90',
            '.go',
            '.inc',
            '.java',
        ])

    def skip_file (self, dir, filename):
        return super().skip_file (dir, filename)
# g++.niklas/README contains historical copyright information
# and isn't updated.
if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
    return True
return GenericFilter.skip_file (self, dir, filename)

class LibCppFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set([
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ])

class LibGCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set([
            # Imported from GLIBC.
            'soft-fp',
        ])

class LibJavaFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set([
            # Handled separately.
            'testsuite',

            # Not really part of the library
            'contrib',

            # Imported from upstream
            'classpath',
            'libltdl',
        ])

def get_line_filter (self, dir, filename):
    if filename == 'NameDecoder.h':
        return re.compile ('.*NAME_COPYRIGHT')
    if filename == 'ICC_Profile.h':
        return re.compile ('.*icSigCopyrightTag')
return GenericFilter.get_line_filter (self, dir, filename)

class LibMudflapFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set (
            # Handled separately.
            ['testsuite',
             ])

class LibStdCxxFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set (
            # Contains no copyright of its own, but quotes the GPL.
            ['intro.xml',
             ])

        self.skip_dirs |= set (
            # Contains automatically-generated sources.
            ['html',
             ]

            # The testsuite data files shouldn't be changed.
            ['data',
             ]

            # Contains imported images
            ['images',
             ]

        self.own_files |= set (
            # Contains markup around the copyright owner.
            ['spine.xml',
             ]

        def get_line_filter (self, dir, filename):
            if filename == 'boost_concept_check.h':
                return re.compile ('// (C) Copyright Jeremy Siek')
            return GenericFilter.get_line_filter (self, dir, filename)

class GCCCopyright (Copyright):
    def __init__ (self, errors):
        Copyright.__init__ (self, errors)

        canon_fsf = 'Free Software Foundation, Inc.'
        self.add_package_author ('Free Software Foundation', canon_fsf)
        self.add_package_author ('Free Software Foundation.', canon_fsf)
class GCCCmdLine (CmdLine):
    def __init__ (self):
        CmdLine.__init__ (self, GCCCopyright)

        self.add_dir ('.', TopLevelFilter())
        # boehm-gc is imported from upstream.
        self.add_dir ('config', ConfigFilter())
        # contrib isn't really part of GCC.
        self.add_dir ('fixincludes')
        self.add_dir ('gcc', GCCFilter())
        self.add_dir (os.path.join ('gcc', 'testsuite'), TestsuiteFilter())
        self.add_dir ('gnattools')
        self.add_dir ('include')
        self.add_dir ('libada')
self.add_dir('libatomic')
self.add_dir('libbacktrace')
self.add_dir('libcpp', LibCppFilter())
self.add_dir('libdecnumber')
# libffi is imported from upstream.
self.add_dir('libgcc', LibGCCFilter())
self.add_dir('libgfortran')
self.add_dir('libgomp')
self.add_dir('libiberty')
self.add_dir('libitm')
self.add_dir('libjava', LibJavaFilter())
self.add_dir(os.path.join('libjava', 'testsuite'), TestsuiteFilter())
self.add_dir('libmudflap', LibMudflapFilter())
self.add_dir(os.path.join('libmudflap', 'testsuite'),
TestsuiteFilter())
self.add_dir('libobjc')
self.add_dir('libquadmath')
# libsanitiser is imported from upstream.
self.add_dir('libssp')
self.add_dir('libstdc++v3', LibStdCxxFilter())
self.add_dir('lto-plugin')
# zlib is imported from upstream.

self.default_dirs = ['gcc',
'libada',
'libatomic',
'libbacktrace',
'libcpp',
'libdecnumber',
'libgcc',
'libgfortran',
'libgomp',
'libibm',
'libmudflap',
'libobjc',
'libstdc++v3',
]

GCCCmdLine().main()
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Version 3.1.31 March 2009

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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.
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@enumerate
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@end enumerate

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package gnu.classpath.tools.taglets;

import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.sunjavadoc.Tag;
/**
 * A simple Taglet which handles Copyright information.
 */

public class CopyrightTaglet implements Taglet {

    private static final String NAME = "copyright";
    private static final String HEADER = "Copyright:";

    public String getName() {
        return NAME;
    }

    public boolean inField() {
        return true;
    }

    public boolean inConstructor() {
        return true;
    }

    public boolean inMethod() {
        return true;
    }

    public boolean inOverview() {
        return true;
    }

    public boolean inPackage() {
        return true;
    }

    public boolean inType() {
        return true;
    }

    public boolean isInlineTag() {
        return false;
    }

    public static void register(Map tagletMap) {
        CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
        tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
    }

    public String toString(Tag tag) {
        return toString(new Tag[] { tag });
    }
}
public String toString(Tag[] tags) {
    if (tags.length == 0) {
        return null;
    }
    else {
        boolean haveValidTag = false;
        for (int i = 0; i < tags.length && !haveValidTag; ++i) {
            if (tags[i].text().length() > 0) {
                haveValidTag = true;
            }
        }
        if (haveValidTag) {
            StringBuffer result = new StringBuffer();
            result.append("<dl>");
            for (int i = 0; i < tags.length; i++) {
                if (tags[i].text().length() > 0) {
                    result.append("<dt><i>Copyright © " + tags[i].text() + "</dt>\n" + tags[i].text() + "</i"></dt>");
                }
            result.append("</dl>" );
            return result.toString();
        }
        else {
            return null;
        }
    }
}

/* Permission.java -- The superclass for all permission objects

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package java.security;

import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission. A permission consists of a permission name
 * and optionally a list of actions that relate to the permission. The
 * actual meaning of the name of the permission is defined only in the
 * context of a subclass. It may name a resource to which access permissions
 * are granted (for example, the name of a file) or it might represent
 * something else entirely. Similarly, the action list only has meaning
 * within the context of a subclass. Some permission names may have no
 * actions associated with them. That is, you either have the permission
 * or you don't.
 * 
 * <p>The most important method in this class is <code>implies</code>. This
 * checks whether if one has this permission, then the specified
 * permission is also implied. As a conceptual example, consider the
 * permissions "Read All Files" and "Read File foo". The permission
 * "Read All Files" implies that the caller has permission to read the
 * file foo.
 * 
 * <p><code>Permission</code>'s must be immutable - do not change their
 * state after creation.
 */
public abstract class Permission implements Guard, Serializable {

/**
 * Compatible with JDK 1.1+.
 */

private static final long serialVersionUID = -5636570222231596674L;

/**
 * This is the name assigned to this permission object.
 */

private String name;

/**
 * Create an instance with the specified name.
 */

public Permission(String name) {
    this.name = name;
}

/**
 * This method implements the <code>Guard</code> interface for this class.
 * It calls the <code>checkPermission</code> method in <code>SecurityManager</code> with this <code>Permission</code> as its argument. This method returns silently if the security check succeeds or throws an exception if it fails.
 */

public void checkGuard(Object obj) {
    SecurityManager sm = System.getSecurityManager();
    if (sm != null)
        sm.checkPermission(this);
}
/**
 * This method tests whether this <code>Permission</code> implies that the
 * specified <code>Permission</code> is also granted.
 * *
 * @param perm the <code>Permission</code> to test against
 * @return true if perm is implied by this
 */
public abstract boolean implies(Permission perm);

/**
 * Check to see if this object equals obj. Use <code>implies</code>, rather
 * than <code>equals</code>, when making access control decisions.
 * *
 * @param obj the object to compare to
 */
public abstract boolean equals(Object obj);

/**
 * This method returns a hash code for this <code>Permission</code>. It
 * must satisfy the contract of <code>Object.hashCode</code>: it must be
 * the same for all objects that equals considers to be the same.
 * *
 * @return a hash value
 */
public abstract int hashCode();

/**
 * Get the name of this <code>Permission</code>.
 * *
 * @return the name
 */
public final String getName()
{
    return name;
}

/**
 * This method returns the list of actions for this <code>Permission</code>
 * as a <code>String</code>. The string should be in canonical order, for
 * example, both <code>new FilePermission(f, "write,read")</code> and
 * <code>new FilePermission(f, "read,write")</code> have the action list
 * "read,write".
 * *
 * @return the action list for this <code>Permission</code>
 */
public abstract String getActions();
public PermissionCollection newPermissionCollection()
{
    return null;
}

public String toString()
{
    CPStringBuilder string = new CPStringBuilder();

    string = string.append('(');
    string = string.append(getClass().getName());
    string = string.append(' ');
    string = string.append(getName());
    if (!(getActions().equals("")))
    {
        string = string.append(' ');
        string = string.append(getActions());
    }
    string = string.append(')');
    return string.toString();
} // class Permission
/* Permission.java -- Information about an ACL permission
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package java.security.acl;

/**
 * This interface provides information about a permission that can be granted. Note that this is &lt;em&gt;not&lt;/em&gt; the same as the class &lt;code&gt;java.security.Permission&lt;/code&gt;.
 * @version 0.0
 * @author Aaron M. Renn (arenn@urbanophile.com)
 */

public interface Permission
{

/**
 * This method tests whether or not a specified &lt;code&gt;Permission&lt;/code&gt; (passed as an &lt;code&gt;Object&lt;/code&gt;) is the same as this permission.
 * @param perm The permission to check for equality
 */
* @return <code>true</code> if the specified permission is the same as this one, <code>false</code> otherwise
*
boolean equals (Object perm);

/**
 * This method returns this <code>Permission</code> as a <code>String</code>.
 *
 * @return A <code>String</code> representing this permission.
 */
String toString();
}

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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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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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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.)

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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
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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
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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
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b) You must cause the files modified to carry prominent notices
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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
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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
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This option is useful when you wish to copy part of the code of
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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
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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 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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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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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
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"Source code" for a work means the preferred form of the work for
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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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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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(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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Version 3.1, 31 March 2009

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@end center
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@end ifinfo

@end page
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Version 3.1, 31 March 2009

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University of Illinois at Urbana-Champaign

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mach_override  lib/interception/mach_override

/* Definitions for BSD assembler syntax for Intel 386
   (actually AT&T syntax for insns and operands,
adapted to BSD conventions for symbol names and debugging.)
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/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using
underscores, we are using prefix `.'s to identify labels that should
be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t" /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line
   that says to advance the location counter by SIZE bytes. */
#define ASM_OUTPUT_SKIP(FILE,SIZE) \  fprintf (FILE, "\t.space "HOST_WIDE_INT_PRINT_UNSIGNED\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line
to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED) \  ( fputs (”.comm “, (FILE)),\  assemble_name ((FILE), (NAME)),\  fprintf ((FILE), “,%u\n”, (int)(ROUNDED)))

/* This says how to output an assembler line
to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED) \  ( fputs (”.lcomm “, (FILE)),\  assemble_name ((FILE), (NAME)),\  fprintf ((FILE), “,%u\n”, (int)(ROUNDED)))

#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT) \  ( fputs (”.lcomm “, (FILE)),\  assemble_name ((FILE), (NAME)),\  fprintf ((FILE), “,%u,%u\n”, (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))

#ifndef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT) \  ( fputs (”.lcomm “, (FILE)),\  assemble_name ((FILE), (NAME)),\  fprintf ((FILE), “,%u,%u\n”, (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line
that says to advance the location counter
to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE,LOG)\  if ((LOG)!=0) fprintf ((FILE), “\t.align %d\n”, (LOG))

/* This is how to store into the string BUF
the symbol_ref name of an internal numbered label where
PREFIX is the class of label and NUM is the number within the class.
This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)\  sprintf ((BUF), “*%s%ld”, (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */

#define USER_LABEL_PREFIX “_”
/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

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@settitle GNU Free Documentation License
@c man begin SEEALSO
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copy of the Program in return for a fee.

@end enumerate

@heading END OF TERMS AND CONDITIONS

@heading 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
state 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 3 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
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General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program.  If not, see @url{http://www.gnu.org/licenses/}.
@end smallexample
Also add information on how to contact you by electronic and paper mail.

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

@smallexample
@var{program} Copyright (C) @var{year} @var{name of author}
This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}.
This is free software, and you are welcome to redistribute it under certain conditions; type @samp{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, your program's commands might be different; for a GUI interface, you would use an ``about box''.

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@c man end

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OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
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 (dossed@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 Dossor provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(agc@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.)

#!/usr/bin/python
#
# Copyright (C) 2013 Free Software Foundation, Inc.
#
# This script 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 3, or (at your option)
# any later version.
#
# This script adjusts the copyright notices at the top of source files
# so that they have the form:
#
#   Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
#     update-copyright.pl --this-year
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
#    update-copyright.pl --this-year libjava
#
# would run the script on just libjava/.
#
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.

import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__ (self):
        self.num_errors = 0

def report (self, filename, string):
    if filename:
        string = filename + ': ' + string
    sys.stderr.write (string + '\n')
    self.num_errors += 1

def ok (self):
    return self.num_errors == 0

class GenericFilter:
    def __init__ (self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set ("
            # Skip licence files.
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
            'COPYING3.LIB',
            'LICENSE',
            'fdl.texi',
            'gpl_v3.texi',
            '')
def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):  
        # Ignore references to copyright in changelog entries.
        return re.compile (r't')
    return None

def skip_file (self, dir, filename):
    if filename in self.skip_files:
        return True
    (base, extension) = os.path.splitext (os.path.join (dir, filename))
    if extension in self.skip_extensions:
        return True

    # Skip FSF mission statement, etc.
    'gnu.texi',
    'funding.texi',
    'appendix_free.xml',

    # Skip imported texinfo files.
    'texinfo.tex',
    )

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'fdl-1.3.xml',
'gpl-3.0.xml',

# Skip auto- and libtool-related files
'aclocal.m4',
'compile',
'config.guess',
'config.sub',
'depcomp',
'install-sh',
'libtool.m4',
'ltmain.sh',
'ltversion.m4',
'lt~obsolete.m4',
'missing',
'mkdep',
'mkinstalldirs',
'move-if-change',
'shlibpath.m4',
'symlink-tree',
'ylwrap',

# Skip imported texinfo files.
'texinfo.tex',
')
if extension == '.in':
    # Skip .in files produced by automake.
    if os.path.exists (base + '.am'):
        return True

    # Skip files produced by autogen
    if (os.path.exists (base + '.def')
        and os.path.exists (base + '.tpl')):
        return True

    # Skip configure files produced by autoconf
    if filename == 'configure':
        if os.path.exists (base + '.ac'):
            return True
        if os.path.exists (base + '.in'):
            return True
    return False

def skip_dir (self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file (self, dir, filename):
    if filename in self.fossilised_files:
        return True
    # Only touch current ChangeLogs.
    if filename != 'ChangeLog' and filename.find ('ChangeLog') >= 0:
        return True
    return False

def by_package_author (self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__ (self, errors):
        self.errors = errors

        # Characters in a range of years. Include '.' for typos.
        ranges = '[0-9](?:[-0-9.,\s]+and\s+)*[0-9]'

        # Non-whitespace characters in a copyright holder's name.
        name = '[\w\s*]'

        # Matches one year.
        self.year_re = re.compile ('[0-9]+')

        # Matches part of a year or copyright holder.
self.continuation_re = re.compile (ranges + '|' + name)

# Matches a full copyright notice:
self.copyright_re = re.compile (  
    # # 1: 'Copyright (C)', etc.  
    '(\[Cc\]opyright'  
    '\[Cc\]opyright\s+\[(Cc)\]'  
    '\[Cc\]opyright\s+%'  
    '\[Cc\]opyright\s+&copy;'  
    '\[Cc\]opyright\s+@copyright\{\}'  
    '\@set\s+copyright\(\w-\)\)''
  
  # 2: the years. Include the whitespace in the year, so that  
  # we can remove any excess.  
  '\(\s*\(?\?:\? + ranges + '\?\?'  
  '\[@value\{\[^{}]*\}\]s\)\)'  
  
  # 3: 'by ', if used  
  '(by\s+)?'  
  
  # 4: the copyright holder. Don't allow multiple consecutive  
  # spaces, so that right-margin gloss doesn't get caught  
  # (e.g. gnat_ugn.texi).  
  '(\s*+' + name + '(?:\s?' + name + ')\*)\)?'  
  
  # A regexp for notices that might have slipped by. Just matching  
  # 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of  
  # HTML header markers, so check for 'copyright' and two digits.  
  self.other_copyright_re = re.compile ('copyright.*[0-9][0-9]',  
    re.IGNORECASE)

    self.comment_re = re.compile('#+|[*]+|;+|%+|//+|@c |dnl ')  
self.holders = { '@copying': '@copying' }  
self.holder_prefixes = set()

# True to 'quilt add' files before changing them.  
self.use_quilt = False  

# If set, force all notices to include this year.  
self.max_year = None  

# Goes after the year(s). Could be ',', '.  
self.separator = ' '  

def add_package_author (self, holder, canon_form = None):  
    if not canon_form:  
        canon_form = holder  
self.holders[holder] = canon_form  
index = holder.find (')')
while index >= 0:
    self.holder_prefixes.add (holder[:index])
    index = holder.find (' ', index + 1)

def add_external_author (self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__ (self, year):
        self.year = year

    def __str__ (self):
        return 'unrecognised year: ' + self.year

def parse_year (self, string):
    year = int (string)
    if len (string) == 2:
        if year > 70:
            return year + 1900
        elif len (string) == 4:
            return year
    raise self.BadYear (string)

def year_range (self, years):
    year_list = [self.parse_year (year)
                 for year in self.year_re.findall (years)]
    assert len (year_list) > 0
    return (min (year_list), max (year_list))

def set_use_quilt (self, use_quilt):
    self.use_quilt = use_quilt

def include_year (self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years (self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith ('@value '):
        return years
    (min_year, max_year) = self.year_range (years)

    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file (dir, filename):
        max_year = max (max_year, self.max_year)

    # Use a range.
if min_year == max_year:
    return '%d' % min_year
else:
    return '%d-%d' % (min_year, max_year)

def strip_continuation(self, line):
    line = line.lstrip()
    match = self.comment_re.match(line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete(self, match):
    holder = match.group(4)
    return (holder
        and (holder not in self.holder_prefixes
            or holder in self.holders))

def update_copyright(self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join(dir, filename)

    intro = match.group(1)
    if intro.startswith('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end(2):].strip()
        if after_years != ':
            self.errors.report(pathname,
                'trailing characters in @set: ' + after_years)
            return (False, orig_line, next_line)
        else:
            # If it looks like the copyright is incomplete, add the next line.
            while not self.is_complete(match):
                try:
                    next_line = file.next()
                except StopIteration:
                    break
                # If the next line doesn't look like a proper continuation,
                # assume that what we've got is complete.
                continuation = self.strip_continuation(next_line)
                if not self.continuation_re.match(continuation):
                    break
            # Merge the lines for matching purposes.
            orig_line += next_line
line = line.rstrip() + ' ' + continuation
next_line = None

# Rematch with the longer line, at the original position.
match = self.copyright_re.match (line, match.start())
assert match

holder = match.group (4)

# Use the filter to test cases where markup is getting in the way.
if filter.by_package_author (dir, filename):
    assert holder not in self.holders

elif not holder:
    self.errors.report (pathname, 'missing copyright holder')
    return (False, orig_line, next_line)

elif holder not in self.holders:
    self.errors.report (pathname, 'unrecognised copyright holder: ' + holder)
    return (False, orig_line, next_line)

else:
    # See whether the copyright is associated with the package
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start (4)]
        + canon_form
        + line[match.end (4):])

    # Remove any 'by'
    line = line[:match.start (3)] + line[match.end (3):]

    # Update the copyright years.
    years = match.group (2).strip()
    try:
        canon_form = self.canonicalise_years (dir, filename, filter, years)
    except self.BadYear as e:
        self.errors.report (pathname, str (e))
        return (False, orig_line, next_line)

    line = (line[:match.start (2)]
        + ' ' + canon_form + self.separator
        + line[match.end (2):])
# Use the standard (C) form.
if intro.endswith('right'):
    intro += ' (C)
elif intro.endswith('(c)'):
    intro = intro[:-3] + '(C)
line = line[:match.start(1)] + intro + line[match.end(1):]

# Strip trailing whitespace
line = line.rstrip() + 'n'

return (line != orig_line, line, next_line)

def process_file (self, dir, filename, filter):
    pathname = os.path.join (dir, filename)
    if filename.endswith ('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove (pathname)
        except OSError:
            pass
        return
    lines = []
    changed = False
    line_filter = filter.get_line_filter (dir, filename)
    with open (pathname, 'r') as file:
        prev = None
        for line in file:
            while line:
                next_line = None
                # Leave filtered-out lines alone.
                if not (line_filter and line_filter.match(line)):
                    match = self.copyright_re.search(line)
                    if match:
                        res = self.update_copyright (dir, filename, filter,
                                                     file, line, match)
                        (this_changed, line, next_line) = res
                        changed = changed or this_changed
                # Check for copyright lines that might have slipped by.
                elif self.other_copyright_re.search(line):
                    self.errors.report (pathname,
                                        'unrecognised copyright: %s'
                                        % line.strip())
                lines.append (line)
                line = next_line
# If something changed, write the new file out.
if changed and self.errors.ok():
    tmp_pathname = pathname + '.tmp'
    with open (tmp_pathname, 'w') as file:
        for line in lines:
            file.write (line)
    if self.use_quilt:
        subprocess.call (["quilt", 'add', pathname])
    os.rename (tmp_pathname, pathname)

def process_tree (self, tree, filter):
    for (dir, subdirs, filenames) in os.walk (tree):
        # Don't recurse through directories that should be skipped.
        for i in xrange (len (subdirs) - 1, -1, -1):
            if filter.skip_dir (dir, subdirs[i]):
                del subdirs[i]

        # Handle the files in this directory.
        for filename in filenames:
            if filter.skip_file (dir, filename):
                sys.stdout.write ('Skipping %s
' % os.path.join (dir, filename))
            else:
                self.process_file (dir, filename, filter)

class CmdLine:
    def __init__ (self, copyright = Copyright):
        self.errors = Errors()
        self.copyright = copyright (self.errors)
        self.dirs = []
        self.default_dirs = []
        self.chosen_dirs = []
        self.option_handlers = dict()
        self.option_help = []

        self.add_option ('--help', 'Print this help', self.o_help)
        self.add_option ('--quilt', '"quilt add" files before changing them',
                        self.o_quilt)
        self.add_option ('--this-year', 'Add the current year to every notice',
                        self.o_this_year)

    def add_option (self, name, help, handler):
        self.option_help.append ((name, help))
        self.option_handlers[name] = handler

    def add_dir (self, dir, filter = GenericFilter()):
        self.dirs.append ((dir, filter))
def o_help(self, option=None):
    sys.stdout.write('Usage: %s [options] dir1 dir2...

    Options:
    ' % sys.argv[0])
    format = '%-15s %s
    for (what, help) in self.option_help:
        sys.stdout.write(format % (what, help))
    sys.stdout.write('
Directories:
    format = '%-25s
    i = 0
    for (dir, filter) in self.dirs:
        i += 1
        if i % 3 == 0 or i == len(self.dirs):
            sys.stdout.write(dir + '\n')
        else:
            sys.stdout.write(format % dir)
    sys.exit(0)

def o_quilt(self, option):
    self.copyright.set_use_quilt(True)

def o_this_year(self, option):
    self.copyright.include_year(time.localtime().tm_year)

def main(self):
    for arg in sys.argv[1:]:
        if arg[:1] != '-':
            self.chosen_dirs.append(arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg](arg)
        else:
            self.errors.report(None, 'unrecognised option: ' + arg)
    if self.errors.ok():
        if len(self.chosen_dirs) == 0:
            self.chosen_dirs = self.default_dirs
        if len(self.chosen_dirs) == 0:
            self.o_help()
        else:
            for chosen_dir in self.chosen_dirs:
                canon_dir = os.path.join(chosen_dir, '')
                count = 0
                for (dir, filter) in self.dirs:
                    if (dir + os.sep).startswith(canon_dir):
                        count += 1
                        self.copyright.process_tree(dir, filter)
                if count == 0:
                    self.errors.report(None, 'unrecognised directory: ' + chosen_dir)
sys.exit (0 if self.errors.ok() else 1)

class TopLevelFilter (GenericFilter):
    def skip_dir (self, dir, subdir):
        return True

class ConfigFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
    def skip_file (self, dir, filename):
        if filename.endswith ('.m4'):
            pathname = os.path.join (dir, filename)
            with open (pathname) as file:
                # Skip files imported from gettext.
                if file.readline().find ('gettext-') >= 0:
                    return True
            return GenericFilter.skip_file (self, dir, filename)

class GCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
        self.skip_files |= set ([
            # Not part of GCC
            'math-68881.h',
        ])
        self.skip_dirs |= set ([
            # Better not create a merge nightmare for the GNAT folks.
            'ada',
            # Handled separately.
            'testsuite',
        ])
        self.skip_extensions |= set ([
            # Maintained by the translation project.
            '.po',
            # Automatically-generated.
            '.pot',
        ])
        self.fossilised_files |= set ([
            # Old news won't be updated.
class TestsuiteFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set ([
            # Don't change the tests, which could be woend by anyone.
            '.c',
            '.C',
            '.cc',
            '.h',
            '.hs',
            '.f',
            '.f90',
            '.go',
            '.inc',
            '.java',
        ])

    def skip_file (self, dir, filename):
        # g++.niklas/README contains historical copyright information
        # and isn't updated.
        if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
            return True
        return GenericFilter.skip_file (self, dir, filename)

class LibCppFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set ([
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ])

class LibGCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set ([
            # Imported from GLIBC.
            'soft-fp',
        ])
class LibJavaFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set (
            # Handled separately.
            'testsuite',

            # Not really part of the library
            'contrib',

            # Imported from upstream
            'classpath',
            'libltdl',
        )

    def get_line_filter (self, dir, filename):
        if filename == 'NameDecoder.h':
            return re.compile ('.*NAME_COPYRIGHT')
        if filename == 'ICC_Profile.h':
            return re.compile ('.*icSigCopyrightTag')
        return GenericFilter.get_line_filter (self, dir, filename)

class LibMudflapFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

    self.skip_dirs |= set (
        # Handled separately.
        'testsuite',
    )

class LibStdCxxFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set (
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
        )

        self.skip_dirs |= set (
            # Contains automatically-generated sources.
            'html',

            # The testsuite data files shouldn't be changed.
            'data',
        )
# Contains imported images
'st',
]

self.own_files |= set([
    # Contains markup around the copyright owner.
    'spine.xml',
    ]
)

def get_line_filter(self, dir, filename):
    if filename == 'boost_concept_check.h':
        return re.compile('// \(C\) Copyright Jeremy Siek\n')
    return GenericFilter.get_line_filter(self, dir, filename)

class GCCCopyright(Copyright):
    def __init__(self, errors):
        Copyright.__init__(self, errors)

canon_fsf = 'Free Software Foundation, Inc.'
self.add_package_author('Free Software Foundation', canon_fsf)
self.add_package_author('Free Software Foundation.', canon_fsf)
self.add_package_author('Free Software Foundation Inc.', canon_fsf)
self.add_package_author('Free Software Foundation, Inc', canon_fsf)
self.add_package_author('Free Software Foundation, Inc.', canon_fsf)
self.add_package_author('The Free Software Foundation', canon_fsf)
self.add_package_author('The Free Software Foundation, Inc.', canon_fsf)
self.add_package_author('Software Foundation, Inc.', canon_fsf)

self.add_external_author('ARM')
sself.add_external_author('AdaCore')
sself.add_external_author('Ami Tavory and Vladimir Dreizin, IBM-HRL')
sself.add_external_author('Cavium Networks')
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class GCCCmdLine(CmdLine):
    def __init__(self):
        CmdLine.__init__(self, GCCCopyright)

        self.add_dir('.', TopLevelFilter())
        # boehm-gc is imported from upstream.
        self.add_dir('config', ConfigFilter())
        # contrib isn't really part of GCC.
        self.add_dir('Tixincludes')
        self.add_dir('gcc', GCCFilter())
        self.add_dir(os.path.join('gcc', 'testsuite'), TestsuiteFilter())
        self.add_dir('gnatools')
        self.add_dir('include')
        self.add_dir('libada')
        self.add_dir('libatomic')
        self.add_dir('libbacktrace')
        self.add_dir('libc++', LibCppFilter())
        self.add_dir('libdecnumber')
        # libffi is imported from upstream.
        self.add_dir('libgcc', LibGCCFilter())
        self.add_dir('libgfortran')
        self.add_dir('libgomp')
        self.add_dir('libiberty')
        self.add_dir('libitm')
        self.add_dir('libobjc', LibobjcFilter())
        self.add_dir(os.path.join('libobjc', 'testsuite'), TestsuiteFilter())
        self.add_dir('libmudflap', LibMudflapFilter())
        self.add_dir(os.path.join('libmudflap', 'testsuite'), TestsuiteFilter())
        self.add_dir('libobjc')
        self.add_dir('libquadmath')
        # libsanitiser is imported from upstream.
        self.add_dir('libssp')
        self.add_dir(os.path.join('libssp', 'testsuite'), TestsuiteFilter())
        self.add_dir('libstdc++-v3', LibStdCxxFilter())
        self.add_dir('lto-plugin')
        # zlib is imported from upstream.

        self.default_dirs = [
            'gcc',
            'libada',
        ]
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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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@heading END OF TERMS AND CONDITIONS
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@page
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* m4/ax_func_which_gethostbyname_r.m4

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import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.javadoc.Tag;

/**
 * A simple Taglet which handles Copyright information.
 */
public class CopyrightTaglet implements Taglet {

private static final String NAME = "copyright";
private static final String HEADER = "Copyright:";

public String getName() {
    return NAME;
}

public boolean inField() {
    return true;
}

public boolean inConstructor() {
    return true;
}

public boolean inMethod() {
    return true;
}

public boolean inOverview() {
    return true;
}
}
public boolean inPackage() {
return true;
}
public boolean inType() {
return true;
}
public boolean isInlineTag() {
return false;
}
public static void register(Map tagletMap) {
CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
}
public String toString(Tag tag) {
return toString(new Tag[] { tag });
}
public String toString(Tag[] tags) {
if (tags.length == 0) {
return null;
}
else {
boolean haveValidTag = false;
for (int i = 0; i < tags.length && !haveValidTag; ++i) {
if (tags[i].text().length() > 0) {
haveValidTag = true;
}
}
if (haveValidTag) {
StringBuffer result = new StringBuffer();
result.append("<dl>");
for (int i = 0; i < tags.length; i++) {
if (tags[i].text().length() > 0) {
result.append("<dt><i>Copyright &#169; " + tags[i].text() + "</i></dt>");
}
}
result.append("</dl>");
return result.toString();
}
else {
return null;

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/* Permission.java -- The superclass for all permission objects

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exception statement from your version. */

package java.security;

import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

/**
* This class is the abstract superclass of all classes that implement
* the concept of a permission. A permission consists of a permission name
* and optionally a list of actions that relate to the permission. The
* actual meaning of the name of the permission is defined only in the
* context of a subclass. It may name a resource to which access permissions
* are granted (for example, the name of a file) or it might represent
* something else entirely. Similarly, the action list only has meaning
* within the context of a subclass. Some permission names may have no
* actions associated with them. That is, you either have the permission
* or you don't.
*
* <p>The most important method in this class is <code>implies</code>. This
* checks whether if one has this permission, then the specified
* permission is also implied. As a conceptual example, consider the
* permissions "Read All Files" and "Read File foo". The permission
* "Read All Files" implies that the caller has permission to read the
* file foo.
*
* <p><code>Permission</code>'s must be immutable - do not change their
* state after creation.
*
* @author Aaron M. Renn (arenn@urbanophile.com)
* @see Permissions
* @see PermissionCollection
* @since 1.1
* @status updated to 1.4
*/

```java
public abstract class Permission implements Guard, Serializable {

/**
 * Compatible with JDK 1.1+
 */

private static final long serialVersionUID = -5635670222231596674L;

/**
 * This is the name assigned to this permission object.
 *
 * @serial the name of the permission
 */

private String name;

/**
 * Create an instance with the specified name.
 *
 * @param name the permission name
 */

public Permission(String name) {

```
this.name = name;
}

/**
 * This method implements the <code>Guard</code> interface for this class.
 * It calls the <code>checkPermission</code> method in
 * <code>SecurityManager</code> with this <code>Permission</code> as its
 * argument. This method returns silently if the security check succeeds
 * or throws an exception if it fails.
 *
 * @param obj the <code>Object</code> being guarded - ignored by this class
 * @throws SecurityException if the security check fails
 * @see GuardedObject
 * @see SecurityManager#checkPermission(Permission)
 */
public void checkGuard(Object obj)
{
    SecurityManager sm = System.getSecurityManager();
    if (sm != null)
        sm.checkPermission(this);
}

/**
 * This method tests whether this <code>Permission</code> implies that the
 * specified <code>Permission</code> is also granted.
 *
 * @param perm the <code>Permission</code> to test against
 * @return true if perm is implied by this
 */
public abstract boolean implies(Permission perm);

/**
 * Check to see if this object equals obj. Use <code>implies</code>, rather
 * than <code>equals</code>, when making access control decisions.
 *
 * @param obj the object to compare to
 */
public abstract boolean equals(Object obj);

/**
 * This method returns a hash code for this <code>Permission</code>. It
 * must satisfy the contract of <code>Object.hashCode</code>: it must be
 * the same for all objects that equals considers to be the same.
 *
 * @return a hash value
 */
public abstract int hashCode();
/**
 * Get the name of this <code>Permission</code>
 *
 * @return the name
 */
public final String getName()
{
    return name;
}

/**
 * This method returns the list of actions for this <code>Permission</code>
 * as a <code>String</code>. The string should be in canonical order, for
 * example, both <code>new FilePermission(f, "write,read")</code> and
 * <code>new FilePermission(f, "read,write")</code> have the action list
 * "read,write".
 *
 * @return the action list for this <code>Permission</code>
 */
public abstract String getActions();

/**
 * This method returns an empty <code>PermissionCollection</code> object
 * that can store permissions of this type, or <code>null</code> if no
 * such collection is defined. Subclasses must override this to provide
 * an appropriate collection when one is needed to accurately calculate
 * <code>implies</code>.
 *
 * @return a new <code>PermissionCollection</code>
 */
public PermissionCollection newPermissionCollection()
{
    return null;
}

/**
 * This method returns a <code>String</code> representation of this
 * <code>Permission</code> object. This is in the format:
 * <code>'(' + getClass().getName() + ' ' + getName() + ' ' + getActions
 * + ')'</code>
 *
 * @return this object as a <code>String</code>
 */
public String toString()
{
    CPStringBuilder string = new CPStringBuilder();
    string = string.append('(');
    
    
    string = string.append(')');
string = string.append(getClass().getName());
string = string.append(' ');
string = string.append(getName());

if (!(getActions().equals('""')))
{
    string = string.append(' ');
    string = string.append(getActions());
}

string = string.append(')');
return string.toString();
}
} // class Permission

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package java.security.acl;

/**
 * This interface provides information about a permission that can be granted. Note that this is not the same as the class java.security.Permission.
 * @version 0.0
 * @author Aaron M. Renn (arenn@urbanophile.com)
 */
public interface Permission
{
/**
 * This method tests whether or not a specified Permission (passed as an Object) is the same as this permission.
 * @param perm The permission to check for equality
 * @return true if the specified permission is the same as this one, false otherwise
 */
boolean equals (Object perm);

/**
 * This method returns this Permission as a String.
 * @return A String representing this permission.
 */
String toString();
}

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```
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```

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```
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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```
1.875 libgudev1 219 :30.el7_3.8
```

```
1.876 libical_lib_Libical/Artisticv2 0.43 :6.el6
1.876.1 Available under license:
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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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#
#=#======================================================================
1.877 libICE 1.0.9 :9.el7

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1.878 libidn 1.28 :4.el7

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size: 8388608, sector size: 512, PT: dos, offset: 446, id=0x8f8378c0
---
#1:         32       7648  0x83
#2:       7680       8704  0xa5
#5:       7936       4864  0x7 (freebsd)
#6:      12544       3584  0x7 (freebsd)
Initialize empty image
f1c9645db14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df055067c18f2cf9 bsd.img
---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot  Start   End    Blocks   Id  System
------------------
Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img
---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

<table>
<thead>
<tr>
<th>Device</th>
<th>Boot</th>
<th>Start</th>
<th>End</th>
<th>Blocks</th>
<th>Id</th>
<th>System</th>
</tr>
</thead>
<tbody>
<tr>
<td>__ts_dev__1</td>
<td>2048</td>
<td>4095</td>
<td>1024</td>
<td>83</td>
<td>Linux</td>
<td></td>
</tr>
</tbody>
</table>

Create 2st primary partition
1beb87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8dff51a88a045db233418dd73fbeb.img

---layout--------

__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

<table>
<thead>
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<th>Device</th>
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<td>1024</td>
<td>83</td>
<td>Linux</td>
<td></td>
</tr>
<tr>
<td>__ts_dev__2</td>
<td>4096</td>
<td>20479</td>
<td>8192</td>
<td>a5</td>
<td>FreeBSD</td>
<td></td>
</tr>
</tbody>
</table>

Create default BSD
2e1cee529cb59e9341afee0f04f319601 bsd.img

---layout--------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
# start  end  size  fstype  [fsize bsize cpg]
c:  4096   20479  16384  unused  0  0
d:  0     16064  16064  unused  0  0

BSD disklabel command (m for help):
Command (m for help):

--------------

b5c121c2091b2ff26b880551feac7112 bsd.img

---layout--------
Changes will remain in memory only, until you decide to write them. Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
# start end size fstype [fsizemb cpg]
a: 4096 6144 2049 4.2BSD 0 0 0
c: 4096 20479 16384 unused 0 0
d: 0 16064 16065 unused 0 0

BSD disklabel command (m for help):
Command (m for help):

Changes will remain in memory only, until you decide to write them. Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
0 unused 5 4.1BSD 9 4.4LFS d boot
1 swap 6 Eighth Edition a unknown e ADOS
2 Version 6 7 4.2BSD b HPFS f HFS
3 Version 7 8 MS-DOS c ISO-9660 10 AdvFS
4 System V

BSD disklabel command (m for help):
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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.

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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 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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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.

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1.883 libmpc 1.0.1 :3.el7

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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
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be optional: if the application does not supply it, the square
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These requirements apply to the modified work as a whole. If
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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
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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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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
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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.

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

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1.887 libnetfilter_conntrack 1.0.6 :1.el7_3

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1.890 libnfsidmap 0.25 :19.el7

1.890.1 Available under license:

This package was debianized by J. Bruce Fields <bfields@citi.umich.edu> on Fri, 6 Aug 2004 16:10:43 -0400.

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Authors: J. Bruce Fields, Andy Adamson, Marius Eriksen

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linux/net/ipsec/inffcodes.c, linux/net/ipsec/inffcodes.h,
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linux/net/ipsec/des/cbc_enc.c, linux/net/ipsec/des/des_enc.c,
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* lib/libcrypto/libswcrypto/cryptodev.c
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* linux/include/libreswan/pfkeyv2.h

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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
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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.

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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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(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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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
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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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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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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
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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.

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.

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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
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------------------------------------------------------------------------------

tools/shhopt.c, tools/shhopt.h:

Title: shhopt - library for parsing command line options.
Version: 1.1.2
Entered-date: 23MAR97
Description: C-functions for parsing command line options, both
     traditional one-character options, and GNU'ish
     --long-options.
Keywords: programming, library, lib, commandline, options
Author: s.h.useby@usit.uio.no (Sverre H. Huseby)
Primary-site: http://www.ifi.uio.no/~sverrehu/pub-unix/
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Gadi Oxman, August 1995

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

It is part of the main e2fsprogs distribution, which can be found at:

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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>, from sources obtained from a mirror of:
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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:
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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
-
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#
# 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) $(LDFLAGS) $(OBJS))
$(BSD_LIB):
$(MV) pic/$(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) -rf $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ..$(BSD_LIB)
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Gadi Oxman, August 1995

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Version 2, June 1991

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Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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Theodore Ts'o
23-June-2007

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Unix SMB/CIFS implementation.
trivial database library - standalone version

trivial database library - private includes

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** NOTE! The following LGPL license applies to the tdb library. This does NOT imply that all of Samba is released
# 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) $(LDFLAGS) $(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-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)

This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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Theodore Ts'o
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#
# 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) $(LDFLAGS) $(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)
/*

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*/
Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
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
-
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1.917 libstdc++ 4.8.5 :28.el7_5.1

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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 the Library into a program that is not a library.

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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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Version 3.1, 31 March 2009

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Program             Directory
-------             ---------
mach_override       lib/interception/mach_override
/* Definitions for BSD assembler syntax for Intel 386
   (actually AT&T syntax for insns and operands,
    adapted to BSD conventions for symbol names and debugging.)
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<http://www.gnu.org/licenses/>. */

/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using
underscores, we are using prefix `.s' to identify labels that should
be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t" /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line
that says to advance the location counter by SIZE bytes. */

#define ASM_OUTPUT_SKIP(FILE,SIZE)  
   fprintf (FILE, "\t.space HOST_WIDE_INT_PRINT_UNSIGNED\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line
to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED)  
( fputs (".comm ", (FILE)),\n   assemble_name ((FILE), (NAME)),\n   fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line
to define a local common symbol. */
#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED)  \
    ( fputs (".lcomm ", (FILE)),
     assemble_name ((FILE), (NAME)),
     fprintf ((FILE), ",%u
", (int)(ROUNDED)))

#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT)  \
    ( fputs (".lcomm ", (FILE)),
     assemble_name ((FILE), (NAME)),
     fprintf ((FILE), ",%u,%u
", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line that says to advance the location counter to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE,LOG)  \
    if ((LOG)!=0) fprintf ((FILE), 	.align %d
", (LOG))

/* This is how to store into the string BUF the symbol_ref name of an internal numbered label where PREFIX is the class of label and NUM is the number within the class. This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)  \
    sprintf ((BUF), 
",%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */

#define USER_LABEL_PREFIX "_
"

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don’t split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

@ignore
@c Set file name and title for man page.
@setfilename gfdl
@settitle GNU Free Documentation License
@c man begin SEEALSO
@uref{http://fsf.org/}
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

@c This file is intended to be included within another document, @c hence no sectioning command or @node.
@c man end
@end ignore
@c Special handling for inclusion in the install manual.
@ifset gfdlhtml
@ifnothtml
@comment node-name, next, previous, up
@node GNU Free Documentation License, Concept Index, Old, Top
@end ifnothtml

@html
<h1 align="center">Installing GCC: GNU Free Documentation License</h1>
@end html
@ifnothtml
@unnumbered GNU Free Documentation License
@end ifnothtml
@end ifset
@c man begin DESCRIPTION
@ifclear gfdlhtml
@node GNU Free Documentation License
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@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}
@end smallexample

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This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}. This is free software, and you are welcome to redistribute it under certain conditions; type @samp{show c} for details.
@end smallexample

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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(aga@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
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#!/usr/bin/python
#
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#
# This script 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 3, or (at your option)
# any later version.
#
# This script adjusts the copyright notices at the top of source files
# so that they have the form:
#
#   Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
By default the script will update all directories for which the output has been vetted. You can instead pass the names of individual directories, including those that haven’t been approved. So:

```
update-copyright.pl --this-year
```

is the command that would be used at the beginning of a year to update all copyright notices (and possibly at other times to check whether new files have been added with old years). On the other hand:

```
update-copyright.pl --this-year libjava
```

would run the script on just libjava/.

Note that things like --version output strings must be updated before this script is run. There’s already a separate procedure for that.

```python
import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__(self):
        self.num_errors = 0

    def report(self, filename, string):
        if filename:
            string = filename + ': ' + string
        sys.stderr.write(string + '
')
        self.num_errors += 1

    def ok(self):
        return self.num_errors == 0

class GenericFilter:
    def __init__(self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set(['
            Skip licence files.
        '])

        self.skip_files |= set(['

---

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```
'COPYING',
'COPYING.LIB',
'COPYING3',
'COPYING3.LIB',
'LICENSE',
'fdl.texi',
'gpl_v3.texi',
'fdl-1.3.xml',
'gpl-3.0.xml',

# Skip auto- and libtool-related files
'aclocal.m4',
'compile',
'config.guess',
'config.sub',
'depcomp',
'install-sh',
'libtool.m4',
'ltmain.sh',
'ltoptions.m4',
'ltversion.m4',
'Lt~obsolete.m4',
'missing',
'mkdep',
'mkinstalldirs',
'move-if-change',
'shlibpath.m4',
'symlink-tree',
'ylwrap',

# Skip FSF mission statement, etc.
'gnu.texi',
'funding.texi',
'appendix_free.xml',

# Skip imported texinfo files.
'texinfo.tex',
]

def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile (r'\t')

    return None
def skip_file(self, dir, filename):
    if filename in self.skip_files:
        return True
    base, extension = os.path.splitext(os.path.join(dir, filename))
    if extension in self.skip_extensions:
        return True
    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists(base + '.am'):
            return True
    # Skip files produced by autogen
    if os.path.exists(base + '.def')
        and os.path.exists(base + '.tpl')):
        return True
    # Skip configure files produced by autoconf
    if filename == 'configure':
        if os.path.exists(base + '.ac'):
            return True
        if os.path.exists(base + '.in'):
            return True
    return False

def skip_dir(self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file(self, dir, filename):
    if filename in self.fossilised_files:
        return True
    # Only touch current current ChangeLogs.
    if filename != 'ChangeLog' and filename.find('ChangeLog') >= 0:
        return True
    return False

def by_package_author(self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__(self, errors):
        self.errors = errors
        # Characters in a range of years. Include ‘.’ for typos.
        ranges = '[0-9]\(?:[0-9,\s]+\)?\s*\[0-9\]'
# Non-whitespace characters in a copyright holder's name.
name = '[\w.-]'

# Matches one year.
self.year_re = re.compile('[0-9]+')

# Matches part of a year or copyright holder.
self.continuation_re = re.compile(ranges + '|' + name)

# Matches a full copyright notice:
self.copyright_re = re.compile (  
  # 1: 'Copyright (C)', etc.
  '([Cc]opyright'  
  '([Cc]opyrights+\([Cc]\)'  
  '([Cc]opyrights+%s'  
  '([Cc]opyrights+&copy;'  
  '([Cc]opyrights+@copyright\[ ]')'  
  '@set+s+copyright\[w-\]+')'

  # 2: the years.  Include the whitespace in the year, so that  
  # we can remove any excess.
  '\s*\(\?\.' + ranges + '\.,\?\)
  '@value\([^{}]*\)\s*')

  # 3: 'by ', if used
  '(by\s+)?'

  # 4: the copyright holder.  Don't allow multiple consecutive  
  # spaces, so that right-margin gloss doesn't get caught  
  # (e.g. gnat_ugn.texi).
  '\(' + name + '\(' + name + '\)\)*\)')

# A regexp for notices that might have slipped by.  Just matching  
# 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of  
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile ('copyright.*[0-9][0-9]',  
  re.IGNORECASE)
self.comment_re = re.compile('#+|\[*\]+|;+|%+|//+|@c |dnl ')  
self.holders = { '@copying': '@copying' }
self.holder_prefixes = set()

# True to 'quilt add' files before changing them.
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s).  Could be ', '.

self.separator = ‘ ’

def add_package_author(self, holder, can_form = None):
    if not can_form:
        can_form = holder
    self.holders[holder] = can_form
    index = holder.find (’ ’)
    while index >= 0:
        self.holder_prefixes.add (holder[:index])
        index = holder.find (’ ’, index + 1)

def add_external_author(self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__(self, year):
        self.year = year

    def __str__(self):
        return ’unrecognised year: ’ + self.year

def parse_year(self, string):
    year = int(string)
    if len(string) == 2:
        if year > 70:
            return year + 1900
        elif len(string) == 4:
            return year
        raise self.BadYear(string)

def year_range(self, years):
    year_list = [self.parse_year(year)
                 for year in self.year_re.findall(years)]
    assert len(year_list) > 0
    return (min(year_list), max(year_list))

def set_use_quilt(self, use_quilt):
    self.use_quilt = use_quilt

def include_year(self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years(self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith(’@value’):
        return years
(min_year, max_year) = self.year_range(years)

# Update the upper bound, if enabled.
if self.max_year and not filter.is_fossilised_file(dir, filename):
    max_year = max(max_year, self.max_year)

# Use a range.
if min_year == max_year:
    return '%d' % min_year
else:
    return '%d-%d' % (min_year, max_year)

def strip_continuation(self, line):
    line = line.lstrip()
    match = self.comment_re.match(line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete(self, match):
    holder = match.group(4)
    return (holder
            and (holder not in self.holder_prefixes
                 or holder in self.holders))

def update_copyright(self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join(dir, filename)

    intro = match.group(1)
    if intro.startswith('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end(2):].strip()
        if after_years != '':
            self.errors.report(pathname,
                              'trailing characters in @set: '
                              + after_years)
            return (False, orig_line, next_line)
        else:
            # If it looks like the copyright is incomplete, add the next line.
            while not self.is_complete(match):
                try:
                    next_line = file.next()
                except StopIteration:
                    break

            # If the next line doesn't look like a proper continuation,
# assume that what we've got is complete.
continuation = self.strip_continuation (next_line)
if not self.continuation_re.match (continuation):
    break

# Merge the lines for matching purposes.
orig_line += next_line
line = line.rstrip() + ' ' + continuation
next_line = None

# Rematch with the longer line, at the original position.
match = self.copyright_re.match (line, match.start())
assert match
holder = match.group (4)

# Use the filter to test cases where markup is getting in the way.
if filter.by_package_author (dir, filename):
    assert holder not in self.holders
elif not holder:
    self.errors.report (pathname, 'missing copyright holder')
    return (False, orig_line, next_line)
elif holder not in self.holders:
    self.errors.report (pathname, 'unrecognised copyright holder: ' + holder)
    return (False, orig_line, next_line)
else:
    # See whether the copyright is associated with the package
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start (4)]
            + canon_form
            + line[match.end (4):])

    # Remove any 'by'
    line = line[:match.start (3)] + line[match.end (3):]

    # Update the copyright years.
    years = match.group (2).strip()
    try:
        canon_form = self.canonicalise_years (dir, filename, filter, years)
except self.BadYear as e:
    self.errors.report(pathname, str(e))
    return (False, orig_line, next_line)

line = (line[:match.start(2)]
    + ' ' + canon_form + self.separator
    + line[match.end(2):])

# Use the standard (C) form.
if intro.endswith('right'):
    intro += ' (C)'
elif intro.endswith('c)'):
    intro = intro[:-3] + '(C)'
line = line[:match.start(1)] + intro + line[match.end(1):]

# Strip trailing whitespace
line = line.rstrip() + '
'

return (line != orig_line, line, next_line)

def process_file(self, dir, filename, filter):
    pathname = os.path.join(dir, filename)
    if filename.endswith('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove(pathname)
        except OSError:
            pass
        return

    lines = []
    changed = False
    line_filter = filter.get_line_filter(dir, filename)
    with open(pathname, 'r') as file:
        prev = None
        for line in file:
            while line:
                next_line = None
                # Leave filtered-out lines alone.
                if not(line_filter and line_filter.match(line)):
                    match = self.copyright_re.search(line)
                    if match:
                        res = self.update_copyright(dir, filename, filter,
                                                     file, line, match)
                        (this_changed, line, next_line) = res
                        changed = changed or this_changed

                        # Check for copyright lines that might have slipped by.
                    if intro.endswith('right'):
                        intro += ' (C)'
                    elif intro.endswith('c)'):
                        intro = intro[:-3] + '(C)'
                    line = line[:match.start(1)] + intro + line[match.end(1):]

    return (line != orig_line, line, next_line)

    # Strip trailing whitespace
    line = line.rstrip() + '
'
    return (line != orig_line, line, next_line)
elif self.other_copyright_re.search (line):
self.errors.report (pathname,
'unrecognised copyright: %s'
% line.strip())
lines.append (line)
line = next_line
# If something changed, write the new file out.
if changed and self.errors.ok():
tmp_pathname = pathname + '.tmp'
with open (tmp_pathname, 'w') as file:
for line in lines:
file.write (line)
if self.use_quilt:
subprocess.call (['quilt', 'add', pathname])
os.rename (tmp_pathname, pathname)
def process_tree (self, tree, filter):
for (dir, subdirs, filenames) in os.walk (tree):
# Don't recurse through directories that should be skipped.
for i in xrange (len (subdirs) - 1, -1, -1):
if filter.skip_dir (dir, subdirs[i]):
del subdirs[i]
# Handle the files in this directory.
for filename in filenames:
if filter.skip_file (dir, filename):
sys.stdout.write ('Skipping %s\n'
% os.path.join (dir, filename))
else:
self.process_file (dir, filename, filter)
class CmdLine:
def __init__ (self, copyright = Copyright):
self.errors = Errors()
self.copyright = copyright (self.errors)
self.dirs = []
self.default_dirs = []
self.chosen_dirs = []
self.option_handlers = dict()
self.option_help = []
self.add_option ('--help', 'Print this help', self.o_help)
self.add_option ('--quilt', '"quilt add" files before changing them',
self.o_quilt)
self.add_option ('--this-year', 'Add the current year to every notice',
self.o_this_year)

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def add_option (self, name, help, handler):
    self.option_help.append ((name, help))
    self.option_handlers[name] = handler

def add_dir (self, dir, filter = GenericFilter ()):  
    self.dirs.append ((dir, filter))

def o_help (self, option = None):
    sys.stdout.write ('Usage: %s %s options dir1 dir2 ...

    Options:
    ' % (sys.argv[0]))
    format = '%-15s %s
    For (what, help) in self.option_help:
        sys.stdout.write (format % (what, help))
    sys.stdout.write ('
Directories:
    ')
    format = '%-25s'
    i = 0
    for (dir, filter) in self.dirs:
        i += 1
        if i % 3 == 0 or i == len (self.dirs):
            sys.stdout.write (dir + '\n'
        else:
            sys.stdout.write (format % dir)
    sys.exit (0)

def o_quilt (self, option):
    self.copyright.set_use_quilt (True)

def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]:
        if arg[0] != '-':
            self.chosen_dirs.append (arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg] (arg)
        else:
            self.errors.report (None, 'unrecognised option: ' + arg)
    if self.errors.ok ():
        if len (self.chosen_dirs) == 0:
            self.chosen_dirs = self.default_dirs
        if len (self.chosen_dirs) == 0:
            self.o_help()
        else:
            for chosen_dir in self.chosen_dirs:
                canon_dir = os.path.join (chosen_dir, '')
                count = 0
for (dir, filter) in self.dirs:
    if (dir + os.sep).startswith (canon_dir):
        count += 1
        self.copyright.process_tree (dir, filter)
    if count == 0:
        self.errors.report (None, 'unrecognised directory: '
                           + chosen_dir)
    sys.exit (0 if self.errors.ok() else 1)

#__________________________________________________________________________

class TopLevelFilter (GenericFilter):
    def skip_dir (self, dir, subdir):
        return True

class ConfigFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
    def skip_file (self, dir, filename):
        if filename.endswith ('.m4'):
            pathname = os.path.join (dir, filename)
            with open (pathname) as file:
                # Skip files imported from gettext.
                if file.readline().find ('gettext-') >= 0:
                    return True
        return GenericFilter.skip_file (self, dir, filename)

class GCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
        self.skip_files |= set ([
            # Not part of GCC
            'math-68881.h',
            ])
        self.skip_dirs |= set ([
            # Better not create a merge nightmare for the GNAT folks.
            'ada',

            # Handled separately.
            'testsuite',
        ])
        self.skip_extensions |= set ([
            # Maintained by the translation project.
            '.po',
        ])

Open Source Used In PL 3.5.1 3.5.1
self.fossilised_files |= set (]
    # Old news won't be updated.
    'ONEWS',
]
)

class TestsuiteFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set (]
            # Don't change the tests, which could be owned by anyone.
            '.c',
            '.C',
            '.cc',
            '.h',
            '.hs',
            '.f',
            '.f90',
            '.go',
            '.inc',
            '.java',
]
)

def skip_file (self, dir, filename):
    # g++.niklas/README contains historical copyright information
    # and isn't updated.
    if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
        return True
    return GenericFilter.skip_file (self, dir, filename)

class LibCppFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set (]
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
]
)

class LibGCCFilter (GenericFilter):
def __init__(self):
    GenericFilter.__init__(self)

    self.skip_dirs |= set([
        # Imported from GLIBC.
        'soft-fp',
    ])

class LibJavaFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set([
            # Handled separately.
            'testsuite',

            # Not really part of the library
            'contrib',

            # Imported from upstream
            'classpath',
            'libltldl',
        ])

def get_line_filter(self, dir, filename):
    if filename == 'NameDecoder.h':
        return re.compile('.*NAME_COPYRIGHT')
    if filename == 'ICC_Profile.h':
        return re.compile('.*icSigCopyrightTag')
    return GenericFilter.get_line_filter(self, dir, filename)

class LibMudflapFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_dirs |= set([
            # Handled separately.
            'testsuite',
        ])

class LibStdCxxFilter(GenericFilter):
    def __init__(self):
        GenericFilter.__init__(self)

        self.skip_files |= set([
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
        ])
self.skip_dirs |= set([
  # Contains automatically-generated sources.
  'html',

  # The testsuite data files shouldn't be changed.
  'data',

  # Contains imported images
  'images',
])

self.own_files |= set([
  # Contains markup around the copyright owner.
  'spine.xml',
])

def get_line_filter(self, dir, filename):
    if filename == 'boost_concept_check.h':
        return re.compile('//\(C\) Copyright Jeremy Siek')
    return GenericFilter.get_line_filter(self, dir, filename)

class GCCCopyright(Copyright):
    def __init__(self, errors):
        Copyright.__init__(self, errors)
        canon_fsf = 'Free Software Foundation, Inc.'

        self.add_package_author('Free Software Foundation', canon_fsf)
        self.add_package_author('Free Software Foundation.', canon_fsf)
        self.add_package_author('Free Software Foundation Inc.', canon_fsf)
        self.add_package_author('Free Software Foundation, Inc', canon_fsf)
        self.add_package_author('Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author('The Free Software Foundation', canon_fsf)
        self.add_package_author('The Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author('Software Foundation, Inc.', canon_fsf)

        self.add_external_author('ARM')
        self.add_external_author('AdaCore')
        self.add_external_author('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
        self.add_external_author('Cavium Networks.')
        self.add_external_author('Faraday Technology Corp.')
        self.add_external_author('Florida State University')
        self.add_external_author('Greg Colvin and Beman Dawes.')
        self.add_external_author('Hewlett-Packard Company')
        self.add_external_author('Information Technology Industry Council')
        self.add_external_author('James Theiler, Brian Gough')
        self.add_external_author('Makoto Matsumoto and Takuji Nishimura')
        self.add_external_author('National Research Council of Canada')
class GCCCmdLine(CmdLine):
    def __init__(self):
        CmdLine.__init__(self, GCCCopyright)

        self.add_dir('.', TopLevelFilter())
        # boehm-gc is imported from upstream.
        self.add_dir('config', ConfigFilter())
        # contrib isn't really part of GCC.
        self.add_dir('fixincludes')
        self.add_dir('gcc', GCCFilter())
        self.add_dir(os.path.join('gcc', 'testsuite'), TestsuiteFilter())
        self.add_dir('gnattools')
        self.add_dir('include')
        self.add_dir('libada')
        self.add_dir('libatomic')
        self.add_dir('libbacktrace')
        self.add_dir('libcpp', LibCppFilter())
        self.add_dir('libdecnumber')
        # libffi is imported from upstream.
        self.add_dir('libgcc', LibGCCFilter())
        self.add_dir('libgfortran')
        self.add_dir('libgomp')
        self.add_dir('libiberty')
        self.add_dir('libitm')
        self.add_dir('libjava', LibJavaFilter())
        self.add_dir(os.path.join('libjava', 'testsuite'), TestsuiteFilter())
        self.add_dir('libmudflap', LibMudflapFilter())
        self.add_dir(os.path.join('libmudflap', 'testsuite'), TestsuiteFilter())
        self.add_dir('libobjc')
        self.add_dir('libquadmath')
        # libsanitiser is imported from upstream.
        self.add_dir('libssp')
self.add_dir('libstdc++-v3', LibStdCxxFilter())
self.add_dir('lto-plugin')

# zlib is imported from upstream.

self.default_dirs = ['gcc',
                     'libada',
                     'libatomic',
                     'libbacktrace',
                     'libcpp',
                     'libdeclarative',
                     'libglibc',
                     'libgfortran',
                     'libgomp',
                     'libitm',
                     'libmudflap',
                     'libobjc',
                     'libstdc++-v3',
                     ]

GCCCmdLine().main()

<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/1999/xhtml/DTD/xhtml1-transitional.dtd"><html
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The "Compilation Process" transforms code entirely represented in

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Version 3.1, March 2009

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```
<replaceable>one line to give the programs name and a brief idea of what it does.</replaceable> Copyright (C) <replaceable>year</replaceable> <replaceable>name of author</replaceable>

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

```
<replaceable>program</replaceable> Copyright (C) <replaceable>year</replaceable> <replaceable>name of author</replaceable>
This program comes with ABSOLUTELY NO WARRANTY; for details type <literal>show w</literal>.
This is free software, and you are welcome to redistribute it under certain conditions; type <literal>show c</literal> for details.
```

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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.

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/* gnu.classpath.tools.taglets.CopyrightTaglet
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package gnu.classpath.tools.taglets;

import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.javadoc.Tag;

/**< *
 * A simple Taglet which handles Copyright information.
 */
 public class CopyrightTaglet implements Taglet {

  private static final String NAME = "copyright";
  private static final String HEADER = "Copyright:"

  public String getName() {
    return NAME;
  }

  public boolean inField() {
    return true;
  }

  public boolean inConstructor() {
    return true;
  }

}
public boolean inMethod() {
return true;
}
public boolean inOverview() {
return true;
}
public boolean inPackage() {
return true;
}
public boolean inType() {
return true;
}
public boolean isInlineTag() {
return false;
}
public static void register(Map tagletMap) {
CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
}
public String toString(Tag tag) {
return toString(new Tag[] { tag });
}
public String toString(Tag[] tags) {
if (tags.length == 0) {
return null;
}
else {
boolean haveValidTag = false;
for (int i = 0; i < tags.length && !haveValidTag; ++i) {
if (tags[i].text().length() > 0) {
haveValidTag = true;
}
}
if (haveValidTag) {
StringBuffer result = new StringBuffer();
result.append("<dl>");
for (int i = 0; i < tags.length; i++) {
if (tags[i].text().length() > 0) {
result.append("<dt><i>Copyright &#169; " + tags[i].text() + "</i></dt>");

Open Source Used In PI 3.5.1 3.5.1

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result.append("</dl> ");
return result.toString();
} 
else {
return null;
}

/* Permission.java -- The superclass for all permission objects  

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package java.security;

import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission. A permission consists of a permission name
 * and optionally a list of actions that relate to the permission. The
 * actual meaning of the name of the permission is defined only in the
 * context of a subclass. It may name a resource to which access permissions
 * are granted (for example, the name of a file) or it might represent
 * something else entirely. Similarly, the action list only has meaning
 * within the context of a subclass. Some permission names may have no
 * actions associated with them. That is, you either have the permission
 * or you don't.
 *<p>The most important method in this class is <code>implies</code>. This
 * checks whether if one has this permission, then the specified
 * permission is also implied. As a conceptual example, consider the
 * permissions "Read All Files" and "Read File foo". The permission
 * "Read All Files" implies that the caller has permission to read the
 * file foo.<p>
 * <code>Permission</code>'s must be immutable - do not change their
 * state after creation.
 *<p>@author Aaron M. Renn (arenn@urbanophile.com)
 *<p>@see Permissions
 *<p>@see PermissionCollection
 *<p>@since 1.1
 *<p>@status updated to 1.4
 */
public abstract class Permission implements Guard, Serializable
{
    /**
     * Compatible with JDK 1.1+.
     */
    private static final long serialVersionUID = -5636570222231596674L;

    /**
     * This is the name assigned to this permission object.
     *
     * @serial the name of the permission
     */
    private String name;
/**
 * Create an instance with the specified name.
 *
 * @param name the permission name
 */
public Permission(String name)
{
    this.name = name;
}

/**
 * This method implements the <code>Guard</code> interface for this class.
 * It calls the <code>checkPermission</code> method in
 * <code>SecurityManager</code> with this <code>Permission</code> as its
 * argument. This method returns silently if the security check succeeds
 * or throws an exception if it fails.
 *
 * @param obj the <code>Object</code> being guarded - ignored by this class
 * @throws SecurityException if the security check fails
 * @see GuardedObject
 * @see SecurityManager#checkPermission(Permission)
 */
public void checkGuard(Object obj)
{
    SecurityManager sm = System.getSecurityManager();
    if (sm != null)
        sm.checkPermission(this);
}

/**
 * This method tests whether this <code>Permission</code> implies that the
 * specified <code>Permission</code> is also granted.
 *
 * @param perm the <code>Permission</code> to test against
 * @return true if perm is implied by this
 */
public abstract boolean implies(Permission perm);

/**
 * Check to see if this object equals obj. Use <code>equals</code>, rather
 * than <code>equals</code>, when making access control decisions.
 *
 * @param obj the object to compare to
 */
public abstract boolean equals(Object obj);

/**
 * This method returns a hash code for this <code>Permission</code>. It
* must satisfy the contract of <code>Object.hashCode</code>: it must be
* the same for all objects that equals considers to be the same.
*
* @return a hash value
* /
public abstract int hashCode();

/**
 * Get the name of this <code>Permission</code>.
 *
 * @return the name
 */
public final String getName()
{
    return name;
}

/**
 * This method returns the list of actions for this <code>Permission</code>
 * as a <code>String</code>. The string should be in canonical order, for
 * example, both <code>new FilePermission(f, "write,read")</code> and
 * <code>new FilePermission(f, "read,write")</code> have the action list
 * "read,write".
 *
 * @return the action list for this <code>Permission</code>
 */
public abstract String getActions();

/**
 * This method returns an empty <code>PermissionCollection</code> object
 * that can store permissions of this type, or <code>null</code> if no
 * such collection is defined. Subclasses must override this to provide
 * an appropriate collection when one is needed to accurately calculate
 * <code>implies</code>.
 *
 * @return a new <code>PermissionCollection</code>
 */
public PermissionCollection newPermissionCollection()
{
    return null;
}

/**
 * This method returns a <code>String</code> representation of this
 * <code>Permission</code> object. This is in the format:
 * <code>'(' + getClass().getName() + ' ' + getName() + ' ' + getActions
 * + ')</code>.
 *
public String toString()
{
    CPStringBuilder string = new CPStringBuilder();

    string = string.append('(');
    string = string.append(getClass().getName());
    string = string.append(' ');
    string = string.append(getName());

    if (!getActions().equals(""))
    {
        string = string.append(' ');
        string = string.append(getActions());
    }

    string = string.append(')');
    return string.toString();
}
} // class Permission

/*
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package java.security.acl;

/**
 * This interface provides information about a permission that can be granted. Note that this is <em>not</em> the same as the class <code>java.security.Permission</code>.
 * @version 0.0
 * @author Aaron M. Renn (arenn@urbanophile.com)
 */
public interface Permission
{
 /**
  * This method tests whether or not a specified <code>Permission</code> (passed as an <code>Object</code>) is the same as this permission.
  * @param perm The permission to check for equality
  * @return <code>true</code> if the specified permission is the same as this one, <code>false</code> otherwise
  */
  boolean equals (Object perm);

 /**
  * This method returns this <code>Permission</code> as a <code>String</code>.
  * @return A <code>String</code> representing this permission.
  */
  String toString();
}

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1.918 libstdc++-devel 4.8.5 :28.el7_5.1

1.918.1 Available under license:

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
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 (agc@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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<thead>
<tr>
<th>Program</th>
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<td>mach_override</td>
<td>lib/interception/mach_override</td>
</tr>
</tbody>
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/* Definitions for BSD assembler syntax for Intel 386
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   adapted to BSD conventions for symbol names and debugging.)
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/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using underscores, we are using prefix `.s to identify labels that should be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "t.long\t"
#define ASM_QUAD "t.quad\t" /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line
   that says to advance the location counter by SIZE bytes. */

#define ASM_OUTPUT_SKIP(FILE, SIZE) 
  fprintf (FILE, "t.space HOST_WIDE_INT_PRINT_UNSIGNED\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line
to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED) 
  ( fputs (".comm ", (FILE)),
    assemble_name ((FILE), (NAME)),
    fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line
to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED) 
  ( fputs (".lcomm ", (FILE)),
    assemble_name ((FILE), (NAME)),
    fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT) 
  ( fputs (".lcomm ", (FILE)),
    assemble_name ((FILE), (NAME)),
    fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line
   that says to advance the location counter
to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE, LOG)
  if ((LOG)!=0) fprintf ((FILE), "t.align %d\n", (LOG))

/* This is how to store into the string BUF

...
the symbol_ref name of an internal numbered label where
PREFIX is the class of label and NUM is the number within the class.
This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER)\
   sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */
#define USER_LABEL_PREFIX "_

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0
@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{} 2007 Free Software Foundation, Inc.
Everyone is permitted to copy and distribute verbatim copies of this
license document, but changing it is not allowed.
@c man end
@end ignore
@node Copying
@c man begin DESCRIPTION
@unnumbered GNU General Public License
@center Version 3, 29 June 2007
@c This file is intended to be included in another file.

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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 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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"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.

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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.

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Version 3, 29 June 2007

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Version 3.1, 31 March 2009

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prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

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making modifications to it. For a library, complete source code means
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@enumerate a
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@item
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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.)
@end enumerate

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To apply these terms, attach the following notices to the library. 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.

@example
@var{one line to give the library's name and an idea of what it does.}
Copyright (C) @var{year}  @var{name of author}

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@end smallexample

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

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

@example
Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample

That's all there is to it!

#!/usr/bin/python
#
# Copyright (C) 2013 Free Software Foundation, Inc.
import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__(self):

# This script 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 3, or (at your option)
# any later version.

# This script adjusts the copyright notices at the top of source files
# so that they have the form:
#
#  Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3.  This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices.  Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted.  You can instead pass the names of individual
# directories, including those that haven't been approved.  So:
#
#    update-copyright.pl --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years).  On the other hand:
#
#    update-copyright.pl --this-year libjava
#
# would run the script on just libjava/.
#
# Note that things like --version output strings must be updated before
# this script is run.  There's already a separate procedure for that.
self.num_errors = 0

def report (self, filename, string):
    if filename:
        string = filename + ': ' + string
    sys.stderr.write (string + '\n')
    self.num_errors += 1

def ok (self):
    return self.num_errors == 0

class GenericFilter:
    def __init__ (self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set (['
            # Skip licence files.
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
            'COPYING3.LIB',
            'LICENSE',
            'fndl.texi',
            'gpl_v3.texi',
            'fdl-1.3.xml',
            'gpl-3.0.xml',

            # Skip auto- and libtool-related files
            'aclocal.m4',
            'compile',
            'config.guess',
            'config.sub',
            'depcomp',
            'install-sh',
            'libtool.m4',
            'ltmain.sh',
            'ltoptions.m4',
            'ltversion.m4',
            'lt--obsolete.m4',
            'missing',
            'mkdep',
            'mkinstalldirs',
            'move-if-change',
        '])
def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile ('\t')
    return None

def skip_file (self, dir, filename):
    if filename in self.skip_files:
        return True
    (base, extension) = os.path.splitext (os.path.join (dir, filename))
    if extension in self.skip_extensions:
        return True
    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists (base + '.am'):
            return True
        # Skip files produced by autogen
        if (os.path.exists (base + '.def')
            and os.path.exists (base + '.tpl')):
            return True
        # Skip configure files produced by autoconf
        if filename == 'configure':
            if os.path.exists (base + '.ac'):
                return True
        if os.path.exists (base + '.in'):
            return True
    return False
def skip_dir(self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file(self, dir, filename):
    if filename in self.fossilised_files:
        return True
    # Only touch current ChangeLogs.
    if filename != 'ChangeLog' and filename.find('ChangeLog') >= 0:
        return True
    return False

def by_package_author(self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__(self, errors):
        self.errors = errors

        # Characters in a range of years. Include ' for typos.
        ranges = '[0-9][^0-9,.\s]*[0-9]'

        # Non-whitespace characters in a copyright holder's name.
        name = '[\w,.-''

        # Matches one year.
        self.year_re = re.compile('[0-9]+')

        # Matches part of a year or copyright holder.
        self.continuation_re = re.compile(ranges + '|' + name)

        # Matches a full copyright notice:
        self.copyright_re = re.compile(
            # 1: 'Copyright (C)', etc.
            '(\[Cc\]opyright'  
            '[[Cc]opyrights+\([Cc]\)]'  
            '[[Cc]opyrights+%s'  
            '[[Cc]opyrights+&copy;'  
            '[[Cc]opyrights+@copyright{ }]'  
            '[@set%s+copyright\[w-]+)']

            # 2: the years. Include the whitespace in the year, so that
            # we can remove any excess.
            '\s*(?! [^\s]+? \s+)'  
            '@value\{[^\s]+\}\s*')

            # 3: 'by ', if used
            '(by\s+)?)'}
# 4: the copyright holder. Don't allow multiple consecutive
# spaces, so that right-margin gloss doesn't get caught
# (e.g. gnat_ugn.texi).
"(' + name + '(?!\s?' + name + '+\'))?"

# A regexp for notices that might have slipped by. Just matching
# 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile('copyright.*[0-9][0-9]',
    re.IGNORECASE)
self.comment_re = re.compile('#+|[*]+|;+|%+|//+|@c |dnl ')
self.holders = { '@copying': '@copying' }
self.holder_prefixes = set()

# True to 'quilt add' files before changing them.
sself.use_quilt = False

# If set, force all notices to include this year.
sself.max_year = None

# Goes after the year(s). Could be ', '.
sself.separator = ','

def add_package_author (self, holder, canon_form = None):
    if not canon_form:
        canon_form = holder
    self.holders[holder] = canon_form
    index = holder.find (' ')
    while index >= 0:
        self.holder_prefixes.add (holder[:index])
        index = holder.find (' ', index + 1)

def add_external_author (self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__ (self, year):
        self.year = year

def __str__ (self):
    return 'unrecognised year: ' + self.year

def parse_year (self, string):
    year = int (string)
    if len (string) == 2:
        if year > 70:
            return year + 1900
        elif len (string) == 4:
return year
raise self.BadYear (string)

def year_range (self, years):
    year_list = [self.parse_year (year)
                 for year in self.year_re.findall (years)]
    assert len (year_list) > 0
    return (min (year_list), max (year_list))

def set_use_quilt (self, use_quilt):
    self.use_quilt = use_quilt

def include_year (self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years (self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith ('@value'):
        return years
    (min_year, max_year) = self.year_range (years)
    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file (dir, filename):
        max_year = max (max_year, self.max_year)
    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)

def strip_continuation (self, line):
    line = line.lstrip()
    match = self.comment_re.match (line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete (self, match):
    holder = match.group (4)
    return (holder
            and (holder not in self.holder_prefixes
                 or holder in self.holders))

def update_copyright (self, dir, filename, filter, file, line, match):
    orig_line = line
next_line = None
pathname = os.path.join (dir, filename)

intro = match.group (1)
if intro.startswith ('@set'):
    # Texinfo year variables should always be on one line
    after_years = line[match.end (2):].strip()
    if after_years != "":
        self.errors.report (pathname,
                           'trailing characters in @set: ' + after_years)
        return (False, orig_line, next_line)
else:
    # If it looks like the copyright is incomplete, add the next line.
    while not self.is_complete (match):
        try:
            next_line = file.next()
        except StopIteration:
            break
        # If the next line doesn't look like a proper continuation,
        # assume that what we've got is complete.
        continuation = self.strip_continuation (next_line)
        if not self.continuation_re.match (continuation):
            break
        # Merge the lines for matching purposes.
        orig_line += next_line
        line = line.rstrip() + ' ' + continuation
        next_line = None

    # Rematch with the longer line, at the original position.
    match = self.copyright_re.match (line, match.start())
    assert match

    holder = match.group (4)

    # Use the filter to test cases where markup is getting in the way.
    if filter.by_package_author (dir, filename):
        assert holder not in self.holders

    elif not holder:
        self.errors.report (pathname, 'missing copyright holder')
        return (False, orig_line, next_line)

    elif holder not in self.holders:
        self.errors.report (pathname, 'unrecognised copyright holder: ' + holder)
return (False, orig_line, next_line)

else:
    # See whether the copyright is associated with the package
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start (4)]
        + canon_form
        + line[match.end (4):])

    # Remove any 'by'
    line = line[:match.start (3)] + line[match.end (3):]

    # Update the copyright years.
    years = match.group (2).strip()
    try:
        can_form = self.canonicalise_years(dir, filename, filter, years)
    except self.BadYear as e:
        self.errors.report(pathname, str(e))
        return (False, orig_line, next_line)

    line = (line[:match.start (2)]
        + ' ' + can_form + self.separator
        + line[match.end (2):])

    # Use the standard (C) form.
    if intro.endswith ('right'):
        intro += ' (C)
    elif intro.endswith ('(c)'):
        intro = intro[:-3] + '(C)
    line = line[:match.start (1)] + intro + line[match.end (1):]

    # Strip trailing whitespace
    line = line.rstrip() + '

return (line != orig_line, line, next_line)
def process_file (self, dir, filename, filter):
    pathname = os.path.join (dir, filename)
    if filename.endswith('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove (pathname)
        except OSError:
pass
return

lines = []
changed = False
line_filter = filter.get_line_filter (dir, filename)
with open (pathname, 'r') as file:
    prev = None
    for line in file:
        while line:
            next_line = None
            # Leave filtered-out lines alone.
            if not (line_filter and line_filter.match (line)):
                match = self.copyright_re.search (line)
                if match:
                    res = self.update_copyright (dir, filename, filter,
                                                file, line, match)
                    (this_changed, line, next_line) = res
                    changed = changed or this_changed

            # Check for copyright lines that might have slipped by.
            elif self.other_copyright_re.search (line):
                self.errors.report (pathname,
                                    'unrecognised copyright: %s'
                                    % line.strip())
                lines.append (line)
                line = next_line

            # If something changed, write the new file out.
            if changed and self.errors.ok():
                tmp_pathname = pathname + '.tmp'
                with open (tmp_pathname, 'w') as file:
                    for line in lines:
                        file.write (line)
                if self.use_quilt:
                    subprocess.call (
                                    ['quilt', 'add', pathname])
                os.rename (tmp_pathname, pathname)

def process_tree (self, tree, filter):
    for (dir, subdirs, filenames) in os.walk (tree):
        # Don't recurse through directories that should be skipped.
        for i in xrange (len (subdirs) - 1, -1, -1):
            if filter.skip_dir (dir, subdirs[i]):
                del subdirs[i]

        # Handle the files in this directory.
        for filename in filenames:
            if filter.skip_file (dir, filename):
sys.stdout.write ('Skipping %s

% os.path.join (dir, filename))
else:
    self.process_file (dir, filename, filter)

class CmdLine:
def __init__ (self, copyright = Copyright):
    self.errors = Errors()
    self.copyright = copyright (self.errors)
    self.dirs = []
    self.default_dirs = []
    self.chosen_dirs = []
    self.option_handlers = dict()
    self.option_help = []

    self.add_option ('--help', 'Print this help', self.o_help)
    self.add_option ('--quilt', """quilt add" files before changing them",
                    self.o_quilt)
    self.add_option ('--this-year', 'Add the current year to every notice',
                    self.o_this_year)

def add_option (self, name, help, handler):
    self.option_help.append ((name, help))
    self.option_handlers[name] = handler

def add_dir (self, dir, filter = GenericFilter()):
    self.dirs.append ((dir, filter))

def o_help (self, option = None):
    sys.stdout.write ('Usage: %s [options] dir1 dir2...

    Options:
% s
' % sys.argv[0])
    format = '%-15s %s
'
    for (what, help) in self.option_help:
        sys.stdout.write (format % (what, help))
        sys.stdout.write ('%s
' % ('nDirectories:
')
    format = '%-25s'
    i = 0
    for (dir, filter) in self.dirs:
        i += 1
        if i % 3 == 0 or i == len (self.dirs):
            sys.stdout.write (dir + 'n')
        else:
            sys.stdout.write (format % dir)
        sys.exit (0)

    def o_quilt (self, option):
        self.copyright.set_use_quilt (True)
def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]
        if arg[1:] != '-':
            self.chosen_dirs.append (arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg] (arg)
        else:
            self.errors.report (None, 'unrecognised option: ' + arg)
    if self.errors.ok():
        if len (self.chosen_dirs) == 0:
            self.chosen_dirs = self.default_dirs
        if len (self.chosen_dirs) == 0:
            self.o_help()
        else:
            for chosen_dir in self.chosen_dirs:
                canon_dir = os.path.join (chosen_dir, '')
                count = 0
                for (dir, filter) in self.dirs:
                    if (dir + os.sep).startswith (canon_dir):
                        count += 1
                self.copyright.process_tree (dir, filter)
                if count == 0:
                    self.errors.report (None, 'unrecognised directory: ' + chosen_dir)
        sys.exit (0 if self.errors.ok() else 1)

class TopLevelFilter (GenericFilter):
    def skip_dir (self, dir, subdir):
        return True

class ConfigFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

    def skip_file (self, dir, filename):
        if filename.endswith ('.m4'):
            pathname = os.path.join (dir, filename)
            with open (pathname) as file:
                # Skip files imported from gettext.
                if file.readline().find ('gettext-') >= 0:
                    return True
        return GenericFilter.skip_file (self, dir, filename)
class GCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set [
            # Not part of GCC
            'math-68881.h',
        ]

        self.skip_dirs |= set [
            # Better not create a merge nightmare for the GNAT folks.
            'ada',

            # Handled separately.
            'testsuite',
        ]

        self.skip_extensions |= set [
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ]

        self.fossilised_files |= set [
            # Old news won't be updated.
            'ONEWS',
        ]

class TestsuiteFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set [
            # Don't change the tests, which could be woend by anyone.
            '.c',
            '.C',
            '.cc',
            '.h',
            '.hs',
            '.f',
            '.f90',
            '.go',
            '.go',
            '.java',
        ]
def skip_file (self, dir, filename):
    # g++.niklas/README contains historical copyright information
    # and isn’t updated.
    if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
        return True
    return GenericFilter.skip_file (self, dir, filename)

class LibCppFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set ({
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        })

class LibGCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set ({
            # Imported from GLIBC.
            'soft-fp',
        })

class LibJavaFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set ({
            # Handled separately.
            'testsuite',

            # Not really part of the library
            'contrib',

            # Imported from upstream
            'classpath',
            'libltdl',
        })

    def get_line_filter (self, dir, filename):
        if filename == 'NameDecoder.h':
            return re.compile ('.*NAME_COPYRIGHT')
if filename == 'ICC_Profile.h':
    return re.compile ('.*icSigCopyrightTag')
return GenericFilter.get_line_filter (self, dir, filename)

class LibMudflapFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set ({
            # Handled separately.
            'testsuite',
        })

class LibStdCxxFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set ({
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
        })

        self.skip_dirs |= set ({
            # Contains automatically-generated sources.
            'html',

            # The testsuite data files shouldn't be changed.
            'data',

            # Contains imported images
            'images',
        })

        self.own_files |= set ({
            # Contains markup around the copyright owner.
            'spine.xml',
        })

    def get_line_filter (self, dir, filename):
        if filename == 'boost_concept_check.h':
            return re.compile ('// \(C\) Copyright Jeremy Siek')
        return GenericFilter.get_line_filter (self, dir, filename)

class GCCCopyright (Copyright):
    def __init__ (self, errors):
        Copyright.__init__ (self, errors)

        canon_fsf = 'Free Software Foundation, Inc.'
class GCCCmdLine (CmdLine):
    def __init__ (self):
        CmdLine.__init__ (self, GCCCopyright)

    self.add_dir ('.', TopLevelFilter())
    # boehm-gc is imported from upstream.
    self.add_dir ('config', ConfigFilter())
    # contrib isn't really part of GCC.
    self.add_dir ('fixincludes')
    self.add_dir ('gcc', GCCFilter())
    self.add_dir (os.path.join ('gcc', 'testsuite'), TestsuiteFilter())
    self.add_dir ('gnattools')
self.add_dir('include')
self.add_dir('libada')
self.add_dir('libatomic')
self.add_dir('libbacktrace')
self.add_dir('libc++', LibCppFilter())
self.add_dir('libdecrement')
# libffi is imported from upstream.
self.add_dir('libgcc', LibGCCFilter())
self.add_dir('libgfortran')
self.add_dir('libgomp')
self.add_dir('libh')
self.add_dir('libitm')
self.add_dir('libjava', LibJavaFilter())
self.add_dir(os.path.join('libjava', 'testsuite'), TestsuiteFilter())
self.add_dir('libmudflap', LibMudflapFilter())
self.add_dir(os.path.join('libmudflap', 'testsuite'), TestsuiteFilter())
self.add_dir('libobjc')
self.add_dir('libquadmath')
# libsanitiser is imported from upstream.
self.add_dir('libssp')
self.add_dir('libstdc++-v3', LibStdCxxFilter())
self.add_dir('lto-plugin')
# zlib is imported from upstream.


GCCCmdLine().main()

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package gnu.classpath.tools.taglets;

import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.javadoc.Tag;

/**
 * A simple Taglet which handles Copyright information.
 */
public class CopyrightTaglet implements Taglet {

    private static final String NAME = "copyright";
    private static final String HEADER = "Copyright:"

    public String getName() {
        return NAME;
    }

    public boolean inField() {
        return true;
    }

    public boolean inConstructor() {
        return true;
    }

    public boolean inMethod() {
        return true;
    }

    public boolean inOverview() {
        return true;
    }

    public boolean inPackage() {
        return true;
    }

    public boolean inType() {
        return true;
    }

    public boolean isInlineTag() {
        return false;
    }

    public static void register(Map tagletMap) {
        CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
        tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
    }

    public String toString(Tag tag) {
        return toString(new Tag[] { tag });
    }

    public String toString(Tag[] tags) {
        return "/*
        public class CopyrightTaglet implements Taglet {

            private static final String NAME = "copyright";
            private static final String HEADER = "Copyright:"

            public String getName() {
                return NAME;
            }

            public boolean inField() {
                return true;
            }

            public boolean inConstructor() {
                return true;
            }

            public boolean inMethod() {
                return true;
            }

            public boolean inOverview() {
                return true;
            }

            public boolean inPackage() {
                return true;
            }

            public boolean inType() {
                return true;
            }

            public boolean isInlineTag() {
                return false;
            }

            public static void register(Map tagletMap) {
                CopyrightTaglet copyrightTaglet = new CopyrightTaglet();
                tagletMap.put(copyrightTaglet.getName(), copyrightTaglet);
            }

            public String toString(Tag tag) {
                return toString(new Tag[] { tag });
            }

            public String toString(Tag[] tags) {

*/

if (tags.length == 0) {
    return null;
}
else {
    boolean haveValidTag = false;
    for (int i = 0; i < tags.length && !haveValidTag; ++i) {
        if (tags[i].text().length() > 0) {
            haveValidTag = true;
        }
    }
    if (haveValidTag) {
        StringBuffer result = new StringBuffer();
        result.append("<dl>");
        for (int i = 0; i < tags.length; i++) {
            if (tags[i].text().length() > 0) {
                result.append("<dt><i>Copyright © " + tags[i].text() + "<i></i></dt>");
            }
        }
        result.append("</dl>");
        return result.toString();
    }
    return null;
}
/* Permission.java -- The superclass for all permission objects

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package java.security;

import gnu.java.lang.CPStringBuilder;

import java.io.Serializable;

/**
 * This class is the abstract superclass of all classes that implement
 * the concept of a permission. A permission consists of a permission name
 * and optionally a list of actions that relate to the permission. The
 * actual meaning of the name of the permission is defined only in the
 * context of a subclass. It may name a resource to which access permissions
 * are granted (for example, the name of a file) or it might represent
 * something else entirely. Similarly, the action list only has meaning
 * within the context of a subclass. Some permission names may have no
 * actions associated with them. That is, you either have the permission
 * or you don't.
 * <p>The most important method in this class is <code>implies</code>. This
 * checks whether if one has this permission, then the specified
 * permission is also implied. As a conceptual example, consider the
 * permissions "Read All Files" and "Read File foo". The permission
 * "Read All Files" implies that the caller has permission to read the
 * file foo.
 * <p><code>Permission</code>'s must be immutable - do not change their
 * state after creation.
 *<p>
 * @author Aaron M. Renn (arenn@urbanophile.com)
 * @see Permissions
 * @see PermissionCollection
public abstract class Permission implements Guard, Serializable
{
/**
 * Compatible with JDK 1.1+
 */
private static final long serialVersionUID = -5636570222231596674L;

/**
 * This is the name assigned to this permission object.
 *
 * @serial the name of the permission
 */
private String name;

/**
 * Create an instance with the specified name.
 *
 * @param name the permission name
 */
public Permission(String name)
{
    this.name = name;
}

/**
 * This method implements the <code>Guard</code> interface for this class.
 * It calls the <code>checkPermission</code> method in <code>SecurityManager</code> with this <code>Permission</code> as its argument. This method returns silently if the security check succeeds or throws an exception if it fails.
 *
 * @param obj the <code>Object</code> being guarded - ignored by this class
 * @throws SecurityException if the security check fails
 * @see GuardedObject
 * @see SecurityManager#checkPermission(Permission)
 */
public void checkGuard(Object obj)
{
    SecurityManager sm = System.getSecurityManager();
    if (sm != null)
        sm.checkPermission(this);
}

/**
 * This method tests whether this <code>Permission</code> implies that the
public abstract boolean implies(Permission perm);

/**
 * Check to see if this object equals obj. Use <code>equals</code>, rather
 * than <code>implies</code>, when making access control decisions.
 *
 * @param obj the object to compare to
 */
public abstract boolean equals(Object obj);

/**
 * This method returns a hash code for this <code>Permission</code>. It
 * must satisfy the contract of <code>Object.hashCode</code>: it must be
 * the same for all objects that equals considers to be the same.
 *
 * @return a hash value
 */
public abstract int hashCode();

/**
 * Get the name of this <code>Permission</code>.
 *
 * @return the name
 */
public final String getName()
{
    return name;
}

/**
 * This method returns the list of actions for this <code>Permission</code>
 * as a <code>String</code>. The string should be in canonical order, for
 * example, both <code>new FilePermission(f, "write,read")</code> and
 * <code>new FilePermission(f, "read,write")</code> have the action list
 * "read,write".
 *
 * @return the action list for this <code>Permission</code>
 */
public abstract String getActions();

/**
 * This method returns an empty <code>PermissionCollection</code> object
 * that can store permissions of this type, or <code>null</code> if no
* such collection is defined. Subclasses must override this to provide
* an appropriate collection when one is needed to accurately calculate
* <code>implies</code>.
*
* @return a new <code>PermissionCollection</code>
*/

public PermissionCollection newPermissionCollection()
{
    return null;
}

/**
 * This method returns a <code>String</code> representation of this
 * <code>Permission</code> object. This is in the format:
 * <code>'(' + getClass().getName() + ' ' + getName() + ' ' + getActions
 * + ')'</code>.
 *
 * @return this object as a <code>String</code>
 */

public String toString()
{
    CPStringBuilder string = new CPStringBuilder();

    string = string.append('(');
    string = string.append(getClass().getName());
    string = string.append(' ');
    string = string.append(getName());

    if (!(getActions().equals("")))
    {
        string = string.append(' ');
        string = string.append(getActions());
    }

    string = string.append(')');
    return string.toString();
}

} // class Permission

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package java.security.acl;

/**
 * This interface provides information about a permission that can be granted. Note that this is not the same as the class <code>java.security.Permission</code>.
 * @version 0.0
 * @author Aaron M. Renn (arenn@urbanophile.com)
 */
public interface Permission
{
/**
 * This method tests whether or not a specified <code>Permission</code> (passed as an <code>Object</code>) is the same as this permission.
 * @param perm The permission to check for equality
 * @return <code>true</code> if the specified permission is the same as this one, <code>false</code> otherwise
 */
boolean equals (Object perm);

/**
 * This method returns this <code>Permission</code> as a <code>String</code>.
 *
 * @return A <code>String</code> representing this permission.
 */

String toString();
}

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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 such an object file uses only numerical parameters, data structure
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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.

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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.

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
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of these things:
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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.

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.

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RFC1833: Binding Protocols for ONC RPC Version 2
RFC2078: Generic Security Service Application Program Interface, Version 2
RFC2203: RPCSEC_GSS Protocol Specification
RFC2695: Authentication Mechanisms for ONC RPC

* *
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@item Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

@item Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

@item Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

@item Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source.
Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

@item
Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

@end enumerate

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@end example

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Version 3, 29 June 2007

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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.

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
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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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c) 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 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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size: 8388608, sector size: 512, PT: dos, offset: 446, id=0x8f8378c0

---

#1: 32 7648 0x83
#2: 7680 8704 0xa5
#5: 7936 4864 0x7 (freebsd)
#6: 12544 3584 0x7 (freebsd)

Initialize empty image
f1c9645db41e4fddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266e2df055067c18f2cf9 bsd.img

---layout---------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot Start End Blocks Id System
-------------------
Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout---------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot Start End Blocks Id System
__ts_dev__1 2048 4095 1024 83 Linux
-------------------
Create 2st primary partition
1bebf87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8df51a88a045db233418dd73f6 bsd.img

---layout---------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

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</tr>
</tbody>
</table>

Create default BSD
2e1cee529cb59c9341afe0443f196a1 bsd.img

---layout--------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
# start   end   size    fstype  [fsid  bsiz  cpig]
c: 4096 20479 16384  unused  0  0

d: 0 16064 16065  unused  0  0

BSD disklabel command (m for help):
Command (m for help):

b5c121c2091b2ff26b880551feac7112 bsd.img

---layout--------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
# start   end   size    fstype  [fsid  bsiz  cpig]
a: 4096 6144 2049  4.2BSD  0  0  0
c: 4096 20479 16384  unused  0  0

d: 0 16064 16065  unused  0  0
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

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Version 2.1, February 1999

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1.932 libverto 0.2.5 :4.el7

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1.933 libX11 1.6.5 :1.el7

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1.934  libX11-common 1.6.5 :1.el7

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1.953 libXpm 3.5.12 :1.el7

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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

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If distribution of object code is made by offering access to copy
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5. A program that contains no derivative of any portion of the
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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.

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1.1016 maverick-all 1.4.0

1.1017 mesa-libGL 17.2.3 :8.20171019.el7

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## Authors:
## Ian Romanick <idr@us.ibm.com>

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"""
/* Legal characters in GLSL are:
   *
   * Identifier characters:
   *
   *     Letters a-z
   *     Letters A-Z
   *     Underscore
   *     Numbers 0-9
   *
   * Punctuation:
   *
   *     Period, plus, dash, slash, asterisk, percent, angled brackets,
   *     square brackets, parentheses, braces, caret, vertical bar,
   *     ampersand, tilde, equals, exclamation point, colon, semicolon,
   *     comma, and question mark
   *
   * Special:
   *
   *     Number sign (as used in preprocessor)
   *
   *     Backslash just before newline as line continuation
   *
   * White space:
   *
   *     Space, horizontal tab, vertical tab, form feed, carriage-return,
   *     and line-feed.
   *
   * [GLSL Language Specification 4.30.6, section 3.1]
   *
   * In this file, we test each of these in turn as follows:
   *
   * Identifier characters: All pass through unchanged
/*
 * Punctuation: All pass through unchanged
 * Special: Empty directive replaced with blank line
 * Line continuation merges two lines, then a blank line
 * Whitespace: 4 horizontal space characters each replaced with space
 * 2 newline characters each replaced with a newline
 */

abcdefghijklmnopqrstuvwxyz
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<!DOCTYPE HTML PUBLIC "-/W3C/DTD HTML 4.01 Transitional/EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html lang="en"
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Mesa Component Licenses

<table>
<thead>
<tr>
<th>Component</th>
<th>Location</th>
<th>License</th>
</tr>
</thead>
</table>
Main Mesa code    src/mesa/         MIT
Device drivers    src/mesa/drivers/*     MIT, generally
Gallium code      src/gallium/        MIT
Ext headers       include/GL/glext.h     Khronos
                     include/GL/glxext.h
GLX client code   src/glx/             SGI Free Software License B
C11 thread        include/c11/threads*.h Boost (permissive)
  emulation
</pre>

<p>
In general, consult the source files for license terms.
</p>

</div>
</body>
</html>

Subject: RE: Question about Mesa MLAA license
From: Jorge Jimenez <iryoku@gmail.com>
Date: 01/08/2013 12:50 PM
To: Tom Callaway <tcallawa@redhat.com>
CC: "jorge@iryoku.com" <jorge@iryoku.com>

Yes to both questions.

Thanks,
Jorge

From: Tom Callaway <tcallawa@redhat.com>
Sent: January 8, 2013 6:49 PM
To: Jorge Jimenez <iryoku@gmail.com>
CC: jorge@iryoku.com
Subject: Re: Question about Mesa MLAA license

On 01/08/2013 12:39 PM, Jorge Jimenez wrote:
> Hi Tom,
> 
> What we meant with that is that we made an exception for clause 2.
> Instead of clause 2, in the case of the Mesa project, you have to name
> the technique Jimenez's MLAA in the config options of Mesa. We did that
> just to allow them to solve license issues. This exception should be for
Okay, a few more questions:

* If Fedora decides to simply reproduce the quoted statement:
  "Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia, Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."

  Specifically, if this is done as part of documentation included with Mesa, is that sufficient to meet clause 2 even if the Mesa config option is not set as described in your exception?

* Currently, the Mesa config option for MLAA says: "Morphological anti-aliasing based on Jimenez\' MLAA. 0 to disable, 8 for default quality". Is this in compliance with your exception?

Thanks again,

~tom

==
Fedora Project

---
Subject: RE: Question about Mesa MLAA license
From: Jorge Jimenez <iryoku@gmail.com>
Date: 01/08/2013 12:39 PM
To: "jorge@iryoku.com" <jorge@iryoku.com>, Tom Callaway <tcallawa@redhat.com>

Hi Tom,

What we meant with that is that we made an exception for clause 2. Instead of clause 2, in the case of the Mesa project, you have to name the technique Jimenez's MLAA in the config options of Mesa. We did that just to allow them to solve license issues. This exception should be for the Mesa project, and any project using Mesa, like Fedora.

We want to widespread usage of our MLAA, so we want to avoid any kind of license complications. Hope current one is good for Fedora, if not please tell, and we'll see what we can do!

Cheers,
Jorge

From: Tom Callaway <tcallawa@redhat.com>
Jorge,

Thanks for all of your fantastic graphics work! I have been auditing Fedora (a popular distribution of Linux) for license compliance and I came across your MLAA code in Mesa.

The license says:

* 2. Redistributions in binary form must reproduce the following statement:
*   "Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia,
*   Jose I. Echevarria, Fernando Navarro and Diego Gutierrez.”
*   Only for use in the Mesa project, this point 2 is filled by naming the
*   technique Jimenez's MLAA in the Mesa config options.

That wording is unclear. When you say "Only for use in the Mesa project...", it seems like you could either be saying:

- This code may only be used as part of Mesa.

OR

- In Mesa, you can comply with clause 2 by simply selecting "Jimenez's MLAA" in the Mesa config options.

*****

If the first item is true, then we may have to remove the MLAA code from Fedora's copy of Mesa. However, looking at the license on your SMAA code, I do not believe it to be the case. Please let me know either way!

Thanks in advance,

Tom Callaway
Fedora Legal

==
Fedora Project
1.1018 mesa-libglapi 17.2.3 :8.20171019.el7

1.1018.1 Available under license:

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<head>
<meta http-equiv="content-type" content="text/html; charset=utf-8">
<title>License / Copyright Information</title>
<link rel="stylesheet" type="text/css" href="mesa.css">
</head>
<body>
<div class="header">
<h1>The Mesa 3D Graphics Library</h1>
</div>

<iframe src="contents.html"></iframe>
<div class="content">
<h1>Disclaimer</h1>
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</p>

<p>Please do not refer to the library as <em>MesaGL</em> (for legal reasons). It's just <em>Mesa</em> or <em>The Mesa 3-D graphics library</em>. <br>
</p>

<p>* OpenGL is a trademark of <a href="https://www.sgi.com/">Silicon Graphics Incorporated</a>.</p>
</div>
</body>
</html>
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The core Mesa library is licensed according to the terms of the MIT license. This allows integration with the XFree86, Xorg and DRI projects.

The default Mesa license is as follows:

```
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```

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<pre>
Component         Location               License
------------------------------------------------------------------
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Device drivers    src/mesa/drivers/*     MIT, generally
Gallium code      src/gallium/           MIT
Ext headers       include/GL/glext.h     Khronos
                  include/GL/glxext.h
GLX client code   src/glx/               SGI Free Software License B
C11 thread        include/c11/threads*.h Boost (permissive) emulation
</pre>
<p>In general, consult the source files for license terms.</p>

Subject: RE: Question about Mesa MLAA license
From: Jorge Jimenez <iryoku@gmail.com>
Date: 01/08/2013 12:50 PM
To: Tom Callaway <tcallawa@redhat.com>
CC: "jorge@iryoku.com" <jorge@iryoku.com>

Yes to both questions.

Thanks,
Jorge

From: Tom Callaway <tcallawa@redhat.com>
Sent: January 8, 2013 6:49 PM
To: Jorge Jimenez <iryoku@gmail.com>
CC: jorge@iryoku.com
Subject: Re: Question about Mesa MLAA license
On 01/08/2013 12:39 PM, Jorge Jimenez wrote:

> Hi Tom,
>
> > What we meant with that is that we made an exception for clause 2.
> > Instead of clause 2, in the case of the Mesa project, you have to name
> > the technique Jimenez's MLAA in the config options of Mesa. We did that
> > just to allow them to solve license issues. This exception should be for
> > the Mesa project, and any project using Mesa, like Fedora.
> >
> > We want to widespread usage of our MLAA, so we want to avoid any kind of
> > license complications. Hope current one is good for Fedora, if not
> > please tell, and we'll see what we can do!
>
> Okay, a few more questions:

* If Fedora decides to simply reproduce the quoted statement:
"Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia,
Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."

Specifically, if this is done as part of documentation included with
Mesa, is that sufficient to meet clause 2 even if the Mesa config option
is not set as described in your exception?

* Currently, the Mesa config option for MLAA says: "Morphological
anti-aliasing based on Jimenez\ MLAA. 0 to disable, 8 for default
quality". Is this in compliance with your exception?

Thanks again,

~tom

==
Fedora Project

Subject: RE: Question about Mesa MLAA license
From: Jorge Jimenez <iryoku@gmail.com>
Date: 01/08/2013 12:39 PM
To: "jorge@iryoku.com" <jorge@iryoku.com>, Tom Callaway <tcallawa@redhat.com>

Hi Tom,

What we meant with that is that we made an exception for clause 2.
Instead of clause 2, in the case of the Mesa project, you have to name
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just to allow them to solve license issues. This exception should be for
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```
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```

That wording is unclear. When you say "Only for use in the Mesa project...", it seems like you could either be saying:

- This code may only be used as part of Mesa.

OR

- In Mesa, you can comply with clause 2 by simply selecting "Jimenez's MLAA" in the Mesa config options.

*****

If the first item is true, then we may have to remove the MLAA code from Fedora's copy of Mesa. However, looking at the license on your SMAA code, I do not believe it to be the case. Please let me know either way!

Thanks in advance,

Tom Callaway
Fedora Legal
==
Fedora Project
/* Legal characters in GLSL are:
 *
 * Identifier characters:
 *
 *   Letters a-z
 *   Letters A-Z
 *   Underscore
 *   Numbers 0-9
 *
 * Punctuation:
 *
 *   Period, plus, dash, slash, asterisk, percent, angled brackets,
 *   square brackets, parentheses, braces, caret, vertical bar,
 *   ampersand, tilda, equals, exclamation point, colon, semicolon,
 *   comma, and question mark
 */
* Special:

* Number sign (as used in preprocessor)

* Backslash just before newline as line continuation

* White space:

* Space, horizontal tab, vertical tab, form feed, carriage-return, and line-feed.

* [GLSL Language Specificiation 4.30.6, section 3.1]

* In this file, we test each of these in turn as follows:

* Identifier characters: All pass through unchanged

* Punctuation: All pass through unchanged

* Special: Empty directive replaced with blank line

* Line continuation merges two lines, then a blank line

* Whitespace: 4 horizontal space characters each replaced with space

* 2 newline characters each replaced with a newline

*/

abcdefghijklmnopqrstuvwxyz
ABCDEFGHIJKMLNOPQRSTUVWXYZ
_0123456789
-+
-/
*%
<>
[]()
{}^|
&~
=
!
:
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Authors:
Ian Romanick <idr@us.ibm.com>

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1.1020 metrics-annotation 3.1.2
1.1020.1 Available under license:
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1.1026 mibble-mibs 2.9.3

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c ispell-local-pdict: "ispell-dict"
c End:
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ek-copyright-notice can be run from the tools directory
dir='pwd'
[ -d src ] || [ "basename "$dir"" != tools ] || cd ..

# Note: if paragraphs are reformatted, this may need to be updated.

lgpl="" sed -n '/version [0-9.]* or any later version/ {
s/[.]*version //
/s/ or.*//
p
q
} doc/mpfr.texi"

# Do not use "find ... | while read file do ... done" because the "do"
# part needs to be run in the current shell, and some shells behave in
# a different way.
srctests="find src tests -name ".*[ch]"

err=0
for file in $srctests
do
y=""
case $file in
tests/RRTest.c)
  # This file doesn't have a copyright notice, but isn't distributed.
  continue ;;
src/mpfr-longlong.h)
  # This file (which comes from GMP) has a specific copyright notice.
  continue ;;
src/get_patches.c)
  file="tools/get_patches.sh" ;;
*/mpparam.h)
  y="2005." ;;
esac
grep -q "Copyright $y.* Free Software Foundation" "$file" && 
grep -q "GNU MPFR Library" "$file" && 
grep -q "either version $lgpl of the License" "$file" && continue
echo "Possibly missing or incorrect copyright notice in $file"
err=1
done

exit $err

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1.1035 MXP1: Xml Pull Parser 3rd Edition

(XPP3) 1.1.4c

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Ty Coon, President of Vice

That's all there is to it!
/

/* pbkdf2-hmac-sha256.c */
 *
 * PKCS #5 PBKDF2 used with HMAC-SHA256, see RFC 2898.
 */

/* nettle, low-level cryptographics library */
 *
 * Copyright (C) 2012 Simon Josefsson
 *
 * The nettle library is free software; you can redistribute it and/or modify
 * it under the terms of the GNU Lesser General Public License as published by
 * the Free Software Foundation; either version 2.1 of the License, or (at your
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 *
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 * along with the nettle library; see the file COPYING.LIB. If not, write to
 * the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston,
 * MA 02111-1301, USA.
 */

/* crypto/des/destest.c */

/* Copyright (C) 1995-1997 Eric Young (eay@cryptsoft.com) */
 *
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 *
 * This package is an SSL implementation written
 * by Eric Young (eay@cryptsoft.com).
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 *
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However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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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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On all platforms, Nmap is normally linked with:
- libpcap: Network packet capture library. Distributed with Nmap in the libpcap subdirectory.
  http://www.tcpdump.org/
o **libdnet**: Networking library, used for low-level tasks such as sending ethernet frames. A modified version is distributed with Nmap in the libdnet-stripped subdirectory. A summary of Nmap-local modifications is in the file NMAP_MODIFICATIONS.  
http://code.google.com/p/libdnet/
o **PCRE**: Perl-compatible regular expressions. PCRE is part of Nmap's version detection and is also made available as an NSE library. Distributed with Nmap in the libpcre subdirectory.  
http://www.pcre.org/
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http://www.lua.org/
o **OpenSSL**: Cryptographic library. OpenSSL is used by service detection and by NSE to connect to SSL services. NSE also provides access to OpenSSL functions such as encryption and digest calculation. OpenSSL can be disabled by configuring with the --without-openssl configuration directive.  
http://www.openssl.org/
o **LIBLINEAR**: Used for IPv6 OS classification.  
http://www.csie.ntu.edu.tw/~cjlin/liblinear/
o **libsvn**: The Subversion library, used by the updater program nmap-update.  
http://subversion.apache.org/
o **APR (Apache Portable Runtime)**: Used by libsvn.  
http://apr.apache.org/

On Windows only, Nmap uses:
o **WinPcap**: libpcap for Windows. The libpcap license applies to WinPcap, and it also has its own license. A binary copy of the library is distributed with Nmap in the subdirectory mswin32/winpcap.  
http://www.winpcap.org/

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Zenmap and Ndiff require:
o **Python**: The binary distributions of Nmap include a Python interpreter and various libraries, built using either py2exe or py2app.  
http://www.python.org/

The Windows and Mac OS X binary packages include bundled versions of:
o **GLib, GTK+, ATK, Pango**: These libraries are licensed under the GNU LGPL 2, a copy of which is in the file licenses/lgpl-2.
http://www.gtk.org/
o **Cairo**: graphics library. Dual-licensed under the GNU LGPL 2.1 and the MPL 1.1. See the files licenses/lgpl-2.1 and licenses/mpl-1.1.  
http://www.cairographics.org/
o libgailutil: Accessibility support for GTK+.
o libpng, jpeg, LibTIFF: Image file format libraries used by GTK+.
o zlib and bzip2: compression libraries.
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o libxml2: XML parsing library.
    http://xmlsoft.org/
o SQLite.
    http://www.sqlite.org/
o PyGTK, PyGObject: bindings for Python. Licensed under the GNU LGPL 2.1.
    http://www.pygtk.org/
o PyCairo: bindings for Python. Dual-licensed under the GNU LGPL 2.1 and the MPL 1.1.

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o Various X.org libraries. These were built using MacPorts.
    http://www.x.org/ http://www.macports.org/

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The basic library functions are written in C and are freestanding. Also included in the distribution is a set of C++ wrapper functions.

THE BASIC LIBRARY FUNCTIONS
---------------------------
Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

University of Cambridge Computing Service,

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On all platforms, Nmap is normally linked with:
  o libpcap: Network packet capture library. Distributed with Nmap in the libpcap subdirectory.
    http://www.tcpdump.org/
  o libdnet: Networking library, used for low-level tasks such as sending ethernet frames. A modified version is distributed with Nmap in the libdnet-stripped subdirectory. A summary of Nmap-local modifications is in the file NMAP_MODIFICATIONS.
    http://code.google.com/p/libdnet/
  o PCRE: Perl-compatible regular expressions. PCRE is part of Nmap's version detection and is also made available as an NSE library.
    Distributed with Nmap in the libpcre subdirectory.
    http://www.pcre.org/
  o liblua: Lua programming language. Lua is the implementation language of NSE, the Nmap Scripting Engine. Nmap links with liblua to allow running Lua programs inside Nmap. Distributed with Nmap in the liblua subdirectory. liblua can be omitted by configuring with the --without-liblua configuration directive.
    http://www.lua.org/
  o OpenSSL: Cryptographic library. OpenSSL is used by service detection and by NSE to connect to SSL services. NSE also provides access to OpenSSL functions such as encryption and digest calculation. OpenSSL can be disabled by configuring with the --without-openssl configuration directive.
    http://www.openssl.org/
o LIBLINEAR. Used for IPv6 OS classification.
   http://www.csie.ntu.edu.tw/~cjlin/liblinear/

o libsvn. The Subversion library, used by the updater program


On Windows only, Nmap uses:
o WinPcap: libpcap for Windows. The libpcap license applies to WinPcap,
   and it also has its own license. A binary copy of the library is
   distributed with Nmap in the subdirectory mswin32/winpcap.
   http://www.winpcap.org/

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Zenmap and Ndiff require:
o Python. The binary distributions of Nmap include a Python interpreter
   and various libraries, built using either py2exe or py2app.
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The Windows and Mac OS X binary packages include bundled versions of:
o GLib, GTK+, ATK, Pango: These libraries are licensed under the GNU
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   http://www.gtk.org/
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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1.1064 nss-softokn 3.36.0 :5.el7_5

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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
56. [60] Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and
    validated HTML documents according to the HTML DTD

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The following individuals contributed in part to the Network Time Protocol Distribution Version 4 and are acknowledged as authors of this work.
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3. [3]Bernd Altmeier <altmeier@atlsoft.de> hopf Elektronik serial line and PCI-bus devices
5. [6]Michael Barone <michael,barone@lmco.com> GPSVME fixes
6. [7]Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
7. [8]Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
8. [9]Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
9. [10]Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver,
Trimble PARSE support
10. [11] Nelson B Bolyard <nelson@bolyard.me> update and complete broadcast and crypto features in sntp
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13. [14] Steve Clift <clift@nl.csiro.au> OMEGA clock driver
14. [15] Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
15. [16] Sven Dietrich <sven_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg’s Winnt port.
17. [18] Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux port
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41. [44] Derek Mulcahy <derek@toybox.demon.co.uk> and [45] Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
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45. [49] Wilfredo Sanchez <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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44. mailto:20derek@toybox.demon.co.uk
45. mailto:20d@hd.org
46. mailto:20neal@ntp.org
47. mailto:20Rainer.Pruy@informatik.uni-erlangen.de
48. mailto:20dirce@zk3.dec.com
49. mailto:20wsanchez@apple.com
50. mailto:20mrapple@quack.kfu.com
51. mailto:20jack@innovativeinternet.com
52. mailto:20schnitz@unipress.com
53. mailto:20shields@tembel.org
54. mailto:20pebbles.jpl.nasa.gov
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to attach them to the start of each source file to most effectively
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parts of the General Public License. Of course, the commands you use may
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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:

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

 <signature of Ty Coon>, 1 April 1989
 Ty Coon, President of Vice

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 Source Used In PI 3.5.1 3.5.1

/* -*- Mode: Text -*- */

copyright = {
    date = "1970-2011";
    owner = "David L. Mills and/or others";
    eaddr = "http://bugs.ntp.org, bugs@ntp.org";
    type = note;
    text = <<- _EndOfDoc_

see html/copyright.html

_EndOfDoc_;}

long-opt;
config-header = config.h;
environrc;
no-misuse-usage;

version = `eval VERSION=`\`sed -e 's/.*,\[// -e 's/\]\].*//`\` < ../version.m4``
[ -z "${VERSION}" ] && echo "Cannot determine VERSION" && kill -TERM $AG_pid
echo $VERSION``;

version-value = "'/" Don't use -v as a shortcut for --version */
ntpstat is released under the terms of the GNU
General Public License version 2 (http://www.fsf.org/)
ntpstat is copyright (c) G. Richard Keech 2001

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Version 3, 29 June 2007

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more than your reasonable cost of physically performing this
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- Mark Andrews (mark_andrews@isc.org) - Leitch atomic clock controller
- Bernd Altmeier (altmeier@atlsoft.de) - hopf Elektronik serial line and PCI-bus devices
- Viraj Bais (vbais@mailman1.intel.com) and Clayton Kirkwood (kirkwood@striderfm.intel.com) - port to WindowsNT 3.5
- Michael Barone (michael.barone@lmco.com) - GPSVME fixes
- Karl Berry (karl@owl.HQ.ileaf.com) - syslog to file option
- Greg Brackley (greg.brackley@bigfoot.com) - Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
- Marc Brett (Marc.Brett@westgeo.com) - Magnavox GPS clock driver
- Piette Brooks (Piete.Brooks@cl.cam.ac.uk) - MSF clock driver, Trimble PARSE support
- Nelson B Bolyard (nelson@bolyard.me) - update and complete broadcast and crypto features in sntp
- Jean-Francois Boudreault (Jean-Francois.Boudreault@viagenie.qc.ca) - IPv6 support
Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)
Steve Clift <clift@ml.csiro.au> OMEGA clock driver
Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
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Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver
George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
Danny Mayer <mayer@ntp.org> Network I/O, Windows Port, Code Maintenance
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

Wolfgang Moeller <moeller@gwdg1.dnet.gwdg.de> VMS port

Jeffrey Mogul <mogul@pa.dec.com> ntptrace utility

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Kamal A Mostafa <kamal@whence.com> SCO OpenServer port

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Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code maintenance

Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules

Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory

Ray Schnitzler <schnitz@unipress.com> Unixware1 port

Michael Shields <shields@tembel.org> USNO clock driver

Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver

Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)

Kenneth Stone <ken@sdd.hp.com> HP-UX port

Ajit Thyagarajan <ajit@ee.udel.edu> IP multicast/anycast support

Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp> TRAK clock driver

Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver

Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

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2. [2]Mark Andrews <mark_andrews@isc.org> Leitch atomic clock controller
3. [3]Bernd Altmeier <altmeier@atlsoft.de> hopf Elektronik serial line and PCI-bus devices
5. [6]Michael Barone <michael.barone@lmco.com> GPSVME fixes
6. [7] Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
7. [8] Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
8. [9] Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
9. [10] Piete Brooks <Piete.Brooks@el.cam.ac.uk> MSF clock driver, TRIMBLE PARSE support
10. [11] Nelson B Bolyard <nelson@bolyard.me> update and complete broadcast and crypto features in ntp
11. [12] Jean-Francois Boudreault <Jean-Francois.Boudreault@viagenie.qc.ca> IPv6 support
12. [13] Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)
13. [14] Steve Clift <clift@ml.csiro.au> OMEGA clock driver
14. [15] Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
15. [16] Sven Dietrich <sven_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg’s Winnt port.
17. [18] Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux port
18. [19] Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for NTP Version 2 as specified in RFC-1119
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44. [48] Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
45. [49] Wilfredo Sanchez <wsanchez@apple.com> added support for
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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
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51. [55] Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure
makeover, various other bits (see the ChangeLog)
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    date = "1970-2011";
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    type = note;
    text = <<- _EndOfDoc_
see html/copyright.html

_EndOfDoc_;}
;

long-opts;
config-header = config.h;
environrc;
no-misuse-usage;

version = `eval VERSION=\`sed -e 's/.*/\[/ -e 's/\]\]/ < ../version.m4\`
[ -z "$VERSION" ] && echo "Cannot determine VERSION" && kill -TERM $AG_pid echo $VERSION';

version-value = "#/ Don't use -v as a shortcut for --version #/

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- Mark Andrews <mark_andrews@isc.org> Leitch atomic clock controller
- Bernd Altmeier <altmeier@atlsoft.de> hopf Elektronik serial line and PCI-bus devices
- Viraj Bais <vbais@mailman1.intel.com> and Clayton Kirkwood <kirkwood@striderfm.intel.com> port to WindowsNT 3.5
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<li class="inline"><a href="mailto:%20Sven_Dietrich@trimble.COM">Sven Dietrich <sven_dietrich@trimble.com></a> Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.
<li class="inline"><a href="mailto:%20dundas@salt.jpl.nasa.gov">John A. Dundas III <dundas@salt.jpl.nasa.gov></a> Apple A/UX port
<li class="inline"><a href="mailto:%20duwe@immd4.informatik.uni-erlangen.de">Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de></a> Linux port
<li class="inline"><a href="mailto:%20glenne@icomtek.csir.co.za">John Hay <glenne@icomtek.csir.co.za></a> IPv6 support and testing
<li class="inline"><a href="mailto:%20jbj@chatham.usdesign.com">Jeff Johnson <jbj@chatham.usdesign.com></a> massive prototyping overhaul
<li class="inline"><a href="mailto:H.Lambermont@chello.nl">Hans Lambermont <H.Lambermont@chello.nl></a> or <a href="mailto:H.Lambermont@nl.origin-it.com">Hans Lambermont <Hans.Lambermont@nl.origin-it.com></a>
<li class="inline"><a href="mailto:%20louie@ni.umd.edu">Louis A. Mamakos <louie@ni.umd.edu></a> MD5-
based authentication

Lars H. Mathiesen &lt;thorinn@diku.dk&gt; adaptation of foundation code for Version 3 as specified in RFC-1305

Danny Mayer &lt;mayer@ntp.org&gt; Network I/O, Windows Port, Code Maintenance

David L. Mills &lt;mills@udel.edu&gt; 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

Wolfgang Moeller &lt;moeller@gwdgv1.dnet.gwdg.de&gt; VMS port

Jeffrey Mogul &lt;mogul@pa.dec.com&gt; ntptrace utility

Tom Moore &lt;tmoores@fievel.daytonoh.ncr.com&gt; i386 svr4 port

Kamal A Mostafa &lt;kamal@whence.com&gt; SCO OpenServer port

Derek Mulcahy &lt;derek@toybox.demon.co.uk&gt; and &lt;hrf@mail.aptera.com&gt; Damon Hart-Davis &lt;d@hd.org&gt; ARCRON MSF clock driver

Rob Neal &lt; Neal@ntp.org&gt; Bancomm refclock and config/parse code maintenance

Rainer Pruy &lt;Rainer.Pruy@informatik.uni-erlangen.de&gt; Digital UNIX V4.0 port

Wilfredo S&iacute;nchez &lt;wsanchez@apple.com&gt; added support for NetInfo

Nick Sayer &lt;nrapple@quack.kfu.com&gt; SunOS streams modules

Jack Sasportas &lt;jack@innovativeinternet.com&gt; Saved a Lot of space on the stuff in the html/pic/ subdirectory

Ray Schnitzler &lt; schnitz@unipress.com&gt; Unixware1 port

Michael Shields &lt;shields@tembel.org&gt; USNO clock driver

Jeff Steinman &lt;jss@pebbles.jpl.nasa.gov&gt; Datum PTS clock driver

Harlan Stenn &lt; harlan@pfc.com&gt; GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)

Kenneth Stone &lt;ken@sdd.hp.com&gt; HP-UX port

Ajit Thyagarajan &lt;ajit@ee.udel.edu&gt; IP multicast/anycast support

Tomioaki TSURUOKA &lt;tsuruoka@nc.fukuoka-u.ac.jp&gt; TRAK clock driver

Paul A Vixie &lt;vixie@vix.com&gt; TrueTime GPS driver, generic TrueTime clock driver

Harlan Windl &lt;Ulrich.Windl@rz.uni-regensburg.de&gt; corrected and validated HTML documents according to the HTML DTD
1.1071 numactl 2.0.9 :7.el7

1.1072 Objenesis 1.1
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//--------------------------------------------------------------------------

1.1075 open-vm-tools 10.1.10 :3.el7

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```bash
>>> freebsd-base64-4.8

base64.c -- routines to encode/decode base64 data
$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $ /
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3.0.5.RELEASE
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1.1123 org.springframework.security.acls

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package org.springframework.security.acls.model;

import java.io.Serializable;

/**
 * Represents a permission granted to a <tt>Sid</tt> for a given domain object.
 * @author Ben Alex
 */
public interface Permission extends Serializable {
    //~ Static fields/initializers
    =============================================================================
    ===
    char RESERVED_ON = '~';
    char RESERVED_OFF = '.';
    String THIRTY_TWO_RESERVED_OFF = "..............................";
/**
 * Returns the bits that represents the permission.
 *
 * @return the bits that represent the permission
 */
int getMask();

/**
 * Returns a 32-character long bit pattern <code>String</code> representing this permission.
 *
 * Implementations are free to format the pattern as they see fit, although under no circumstances may
 * { @link #RESERVED_OFF} or { @link #RESERVED_ON} be used within the pattern. An exemption is in the
 * case of
 * { @link #RESERVED_OFF} which is used to denote a bit that is off (clear).
 *
 * Implementations may also elect to use { @link #RESERVED_ON} internally for computation purposes,
 * although this method may not return any <code>String</code> containing { @link #RESERVED_ON}.
 *
 * The returned String must be 32 characters in length.
 *
 * This method is only used for user interface and logging purposes. It is not used in any permission
 * calculations. Therefore, duplication of characters within the output is permitted.
 *
 * @return a 32-character bit pattern
 */
String getPattern();
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1.1129 org.springframework.security.ldap

3.0.3.RELEASE

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1.1130 org.springframework.security.openid

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Daniel Savarese <dfs at 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> helped prepare the first release of
jakarta-oro and is a constant help in keeping the project consistent
with the Jakarta project as a whole.

Takashi Okamoto <tokamoto at rd.nttdata.co.jp> has contributed a unicode
class character class fix and an initial posix character class implementation.

Mark Murphy <markm at tyrell.com> has contributed performance
improvements to Perl5Substitution as well as adding support for
\UuLlE 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.

1.1144 oro 2.0.8

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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.
 *
 * A <code>Bundle</code> object is the access point to define the lifecycle of
 * an installed bundle. Each bundle installed in the OSGi environment must have
 * an associated <code>Bundle</code> object.
 *
 * A bundle must have a unique identity, a <code>long</code>, 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.
 *
 * A bundle can be in one of six states:
 * <ul>
 * <li>{@link #UNINSTALLED}</li>
 * <li>{@link #INSTALLED}</li>
 * <li>{@link #RESOLVED}</li>
 * <li>{@link #STARTING}</li>
 * <li>{@link #STOPPING}</li>
 * <li>{@link #ACTIVE}</li>
 * </ul>
 * 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.
 *
 * A bundle should only execute code when its state is one of
 * <code>STARTING</code>, <code>ACTIVE</code>, or <code>STOPPING</code>.
 * An <code>UNINSTALLED</code> bundle can not be set to another state; it is a
 * zombie and can only be reached because references are kept somewhere.
 * 
 *
* 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>
* <l> 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.
* <p>
* public static final int RESOLVED = 0x00000004;

/**
 * The bundle is in the process of starting.
 *
 * 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.
 * <p>
* public static final int STARTING = 0x00000008;

/**
 * The bundle is in the process of stopping.
 *
 * 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.
 * <p>
 * @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 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.
 * <p>
 * @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()} to notify the framework that the autostart setting of the bundle must not be modified.
 * <p>
 * @since 1.4
 * @see Constants#BUNDLE_ACTIVATIONPOLICY
 * @see #stop()
 */
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.
 * <p>
 * @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 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.
 * <p>
 * @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()} to notify the framework that the autostart setting of the bundle must not be modified.
 * <p>
 * @since 1.4
 * @see Constants#BUNDLE_ACTIVATIONPOLICY
 * @see #stop()
 */
public static final int STOPPING = 0x00000010;
This bit may be set when calling `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.
 *
 * A bundle can be in only one state at any time.
 *
 * @return An element of `<code>UNINSTALLED</code>,<code>INSTALLED</code>,
 *         <code>RESOLVED</code>,<code>STARTING</code>,
 *         <code>STOPPING</code>,<code>ACTIVE</code>.
 */
public int getState();

/**
 * Starts this bundle.
 *
 * If this bundle's state is `<code>UNINSTALLED</code>` then an
 * `<code>IllegalStateException</code>` is thrown.
 *
 * 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>`
* 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 <code>BundleException</code> is thrown to indicate this bundle was unable to be started.

* If this bundle's state is <code>ACTIVE</code> then this method returns immediately.

* If the <code>@link START_TRANSIENT</code> option is not set then set this bundle's autostart setting to <em>Started with declared activation</em> if the <code>@link START_ACTIVATION_POLICY</code> option is set or <em>Started with eager activation</em> if not set. When the Framework is restarted and this bundle's autostart setting is not <em>Stopped</em>, this bundle must be automatically started.

* If this bundle's state is not <code>RESOLVED</code>, an attempt is made to resolve this bundle. If the Framework cannot resolve this bundle, a <code>BundleException</code> is thrown.

* If the <code>@link START_ACTIVATION_POLICY</code> option is set and this bundle's declared activation policy is <code>@link Constants#ACTIVATION_LAZY lazy</code> then:
  * If this bundle's state is <code>STARTING</code> then this method returns immediately.
  * This bundle's state is set to <code>STARTING</code>.
  * A bundle event of type <code>@link BundleEvent#LAZY_ACTIVATION</code> 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 <code>STARTING</code>.
  * A bundle event of type <code>@link BundleEvent#STARTING</code> is fired.
  * The <code>@link BundleActivator#start</code> method of this bundle's <code>BundleActivator</code>, if one is specified, is called. If the <code>BundleActivator</code> is invalid or throws an exception then:
  * This bundle's state is set to <code>STOPPING</code>.
  * A bundle event of type <code>@link BundleEvent#STOPPING</code> 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 <code>RESOLVED</code>.
  * A bundle event of type <code>@link BundleEvent#STOPPED</code> is fired.
  * A <code>BundleException</code> is then thrown.
* 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.
* This bundle's state is set to <code>ACTIVE</code>.
* A bundle event of type {@link BundleEvent#STARTED} is fired.

### Preconditions

- <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.

### Postconditions, no exceptions thrown

- Bundle autostart setting is modified unless the
  * [@link #START_TRANSIENT] option was set.
- <code>getState()</code> in {<code>ACTIVE</code>} unless the
  * lazy activation policy was used.
- <code>BundleActivator.start()</code> has been called and did not
  * throw an exception unless the lazy activation policy was used.

### Postconditions, when an exception is thrown

- Depending on when the exception occurred, bundle autostart setting
  * is modified unless the [@link #START_TRANSIENT] option was set.
- <code>getState()</code> not in {<code>STARTING</code>, <code>ACTIVE</code>}

### @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.
 * 
 * @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.
 * @see #start(int)
 */

public void start() throws BundleException;

/**
 * Stops this bundle.
 * 
 * The following steps are required to stop a bundle:
 * <ol>
 * <li> If this bundle's state is <code>UNINSTALLED</code> then an
 * <code>IllegalStateException</code> 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
 * <code>BundleException</code> 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 to <em>Stopped</em>. When the
 * Framework is restarted and this bundle's autostart setting is
 * <em>Stopped</em>, this bundle must not be automatically started.
 * 
 * <li> If this bundle's state is not <code>ACTIVE</code> then this method
 * returns immediately.
 * 
 * <li> This bundle's state is set to <code>STOPPING</code>.
 * 
 * <li> A bundle event of type { @link BundleEvent#STOPPING} is fired.
 * 
 * */
* The `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 `BundleEvent#STOPPED` is fired.

* Preconditions »

* `getState()` in `{ACTIVE}`.

* Postconditions, no exceptions thrown »

* Bundle autostart setting is modified unless the
  * `STOP_TRANSIENT` option was set.
* `getState()` not in `{ACTIVE, STOPPING}`.
* `BundleActivator.stop` has been called and did not
  throw an exception.

* Postconditions, when an exception is thrown »

* Bundle autostart setting is modified unless the
  * `STOP_TRANSIENT` option was set.

* `param options` The options for stopping this bundle. See
  * `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.
public void stop(int options) throws BundleException;

/**
 * Stops this bundle with no options.
 *
 * This method calls <code>stop(0)</code>.
 *
 * @throws BundleException If this bundle's <code>BundleActivator</code> threw an exception or this bundle is a fragment.
 * @throws java.lang.IllegalArgumentException 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.
 * @see #start(int)
 */
public void stop() throws BundleException;

/**
 * Updates this bundle.
 *
 * If this bundle's state is <code>ACTIVE</code>, it must be stopped before the update and started after the update successfully completes.
 *
 * If this bundle has exported any packages, these packages must not be updated. Instead, the previous package version must remain exported until the <code>PackageAdmin.refreshPackages</code> method has been called or the Framework is relaunched.
 *
 * The following steps are required to update 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, 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>

<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>INSTALLED</code>, <code>RESOLVED</code>, <code>ACTIVE</code>}, This bundle has been updated.
</ul>

<b>Postconditions, when an exception is thrown</b>
<ul>
<li><code>getState()</code> in {<code>INSTALLED</code>, <code>RESOLVED</code>, <code>ACTIVE</code>}, Original bundle is still used; no update occurred.
</ul>
**public void update() throws BundleException;**

/**
 * Updates this bundle from an <code>InputStream</code>.  
 *
 * 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>.  
 *
 * 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[AdminPermission[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.  
 *
 * 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.  
 *
 * 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.
 *
 * 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>
 *
 * 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.
A bundle's unique identifier has the following attributes:

- Is unique and persistent.
- Is a `long`.
- Its value is not reused for another bundle, even after a bundle is uninstalled.
- Does not change while a bundle remains installed.
- Does not change when a bundle is updated.

This method must continue to return this bundle's unique identifier while this bundle is in the `UNINSTALLED` state.

```java
public long getBundleId();
```

Returns this bundle's location identifier.

The location identifier is the location passed to `BundleContext.installBundle()` when a bundle is installed. The location identifier does not change while this bundle remains installed, even if this bundle is updated.

This method must continue to return this bundle's location identifier while this bundle is in the `UNINSTALLED` state.

```java
public String getLocation();
```

Returns this bundle's `ServiceReference` list for all services it has registered or `null` if this bundle has no registered services.

If the Java runtime supports permissions, a `ServiceReference` 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.
*
*<p>
* @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.
*
*<p>
* @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 `<code>true</code>`.
  *
  * `<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 a 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.
 *
 * This method must continue to return Manifest header information while this bundle is in the &lt;code&gt;UNINSTALLED&lt;/code&gt; 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 <code>null</code> then the
* locale returned by <code>java.util.Locale.getDefault</code> 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 <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 #getHeaders()
* @see Constants#BUNDLE_LOCALIZATION
* @since 1.3
*/
public Dictionary getHeaders(String locale);

/**
 * Returns the symbolic name of this bundle as specified by its
 * <code>Bundle-SymbolicName</code> 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 <code>null</code> is returned.
 *
 * @return The symbolic name of this bundle.
 * @since 1.3
 */
public String getSymbolicName();

/**
 * Loads the specified class using this bundle's classloader.
 *
 * @param className The name of the class to load.
 * @return The loaded class.
 * @throws java.lang.ClassNotFoundException If the class cannot
 *       be found.
 * @since 1.3
 */
public Class loadClass(String className) throws

public void setSymbolicName(String symbolicName)();


* 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>.
  *
  * 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 class loader 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;.
 * <p>
 * @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 class loader 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.
 * <p>
 * @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.
 * <p>
 * @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.
 * <p>
 * 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:
 * <p>
 * // List all XML files in the OSGI-INF directory and below
 * Enumeration e = b.findEntries(&quot;OSGI-INF&quot;, &quot;*.xml&quot;, true);
 *<p>
 * // Find a specific localization file
 * Enumeration e = b.findEntries(&quot;OSGI-INF/l10n&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 "./". A
*   path value of "/" 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 ("*"). If null is specified, this is
*   equivalent to "*" 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</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 <code>BundleContext</code>. The returned
   * <code>BundleContext</code> can be used by the caller to act on behalf
   * of this bundle.
   *
   *
   * If this bundle is not in the <link #STARTING>, <link #ACTIVE>, or
   * #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</code>, and
   * the Java Runtime Environment supports permissions.
   * @since 1.4
   */
public BundleContext getBundleContext();
}

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1.1157 pam_krb5_scripts 2.3.11 :9.el6

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Julian Seward, jseward@bzip.org
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       <signature of Ty Coon>, 1 April 1989
       Ty Coon, President of Vice

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--------------------------------------------------------------------------

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Julian Seward, jseward@bzip.org
bzip2/libbz2 version 1.0.6 of 6 September 2010

--------------------------------------------------------------------------
---
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>''
- "Development questions, bug reports, and patches should be sent to the\n  Module-Build mailing list at <module-build@perl.org>.'"
build_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
use strict;
use lib '/lib';
use MBTest;
use DistGen;

plan 'no_plan';

# Ensure any Module::Build modules are loaded from correct directory
blib_load('Module::Build');

#-------------------------------------------------------------#
# Create test distribution
#-------------------------------------------------------------#
{
    my $dist = DistGen->new(
        name => 'Simple::Name',
        version => '0.01',
        license => 'perl',
    );

    $dist->regen;
    $dist->chdir_in;

    my $mb = $dist->new_from_context();
    isa_ok( $mb, "Module::Build" );
    is( $mb->license, 'perl',
        "license 'perl' is valid"
    );

    my $meta = $mb->get_metadata( fatal => 0 );

    is( $meta->{license} => 'perl', "META license will be 'perl'" );
    is( $meta->{resources}{license}, "http://dev.perl.org/licenses/",
        "META license URL is correct"
    );
my $dist = DistGen->new(
    name => 'Simple::Name',
    version => '0.01',
    license => 'VaporWare'
);

$dist->regen;
$dist->chdir_in;

my $mb = $dist->new_from_context();
isa_ok( $mb, "Module::Build" );
is( $mb->license, 'VaporWare',
    "license 'VaporWare' is valid" );

my $meta = $mb->get_metadata( fatal => 0 );

is( $meta->{license} => 'unrestricted', "META license will be 'unrestricted'" );
is( $meta->{resources} {[license], "http://example.com/vaporware/",
    "META license URL is correct" );

# Test with alpha number
# vim:ts=2:sw=2:et:sta:sts=2
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Julian Seward, jseward@bzip.org
bzzip2/libbzzip2 version 1.0.6 of 6 September 2010

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abstract: 'Build and install Perl modules'
author:
  - 'Ken Williams <kwilliams@cpan.org>'
  - "Development questions, bug reports, and patches should be sent to the
    Module-Build mailing list at <module-build@perl.org>.'
built_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
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  license: http://dev.perl.org/licenses/
  repository: http://github.com/dagolden/module-build/
  version: 3
use strict;
use lib 't/lib';
use MBTest;
use DistGen;

plan 'no_plan';

# Ensure any Module::Build modules are loaded from correct directory
blib_load('Module::Build');

# Create test distribution
#---------------------------------------------#
{
  my $dist = DistGen->new(
    name => 'Simple::Name',
    version => '0.01',
    license => 'perl'
  );

  $dist->regen;
  $dist->chdir_in;
}
my $mb = $dist->new_from_context();
isa_ok( $mb, "Module::Build" );
is( $mb->license, 'perl',
   "license 'perl' is valid" );

my $meta = $mb->get_metadata( fatal => 0 );
is( $meta->{license} => 'perl', "META license will be 'perl'" );
is( $meta->{resources}{license}, "http://dev.perl.org/licenses/",
   "META license URL is correct" );
}

my $dist = DistGen->new(
 name => 'Simple::Name',
 version => '0.01',
 license => 'VaporWare'
);
$dist->regen;
$dist->chdir_in;

my $mb = $dist->new_from_context();
isa_ok( $mb, "Module::Build" );
is( $mb->license, 'VaporWare',
   "license 'VaporWare' is valid" );

my $meta = $mb->get_metadata( fatal => 0 );
is( $meta->{license} => 'unrestricted', "META license will be 'unrestricted'" );
is( $meta->{resources}{license}, "http://example.com/vaporware/",
   "META license URL is correct" );
}

# Test with alpha number
# vim:ts=2:sw=2:et:sta:sts=2
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1.1180 perl-Time-Local 1.2300 :2.el7

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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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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, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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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.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. 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:

   a) The modified work must itself be a software library.

   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
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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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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.

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 compile 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) 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.

c) 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.

d) 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 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.

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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Preamble

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Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.
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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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, while the latter only works together with the library.

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2. 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:

a) The modified work must itself be a software library.

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.

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.

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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 compile 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) 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.

c) 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.

d) 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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<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<META http-equiv="Content-Type" content="text/html; charset=UTF-8">
<!--*** This is a generated file. Do not edit. ***-->
<link rel="stylesheet" href="skin/tigris.css" type="text/css"/>
function printit() {
if (window.print) {
    window.print();
} else {
    var WebBrowser = '<OBJECT ID="WebBrowser1" WIDTH="0" HEIGHT="0" CLASSID="CLSID:8856F961-340A-11D0-A96B-00C04FD705A2"></OBJECT>'; 
    document.body.insertAdjacentHTML('beforeEnd', WebBrowser); 
    WebBrowser1.ExecWB(6, 2);//Use a 1 vs. a 2 for a prompting dialog box  
    WebBrowser1.outerHTML = "";
}
}
</script><script language="Javascript" type="text/javascript">
var NS = (navigator.appName == "Netscape");
var VERSION = parseInt(navigator.appVersion);
if (VERSION > 3) {
    document.write('  <a title="PRINT this page OUT" href="javascript:printit()">PRINT</a>');
}
</script>
</div>
<!--================= end Tabs ==================-->
</div>
<!--================= end Status ==================-->
<table id="main" width="100%" cellpadding="8" cellspacing="0" summary="" border="0">
<tbody>
<tr valign="top">
<!--================= start Menu ==================-->
<td id="leftcol">
<div id="navcolumn">
<div class="menuBar">
<div class="menu">
<span class="menuLabel">Overview</span>
<div class="menuItem">
<a href="index.html">Home</a>
</div>
<div class="menuItem">
<a href="download.html">Download</a>
</div>
<div class="menuItem">
<a href="overview.html">Components</a>
</div>
<div class="menuItem">
<a href="text-extraction.html">Text Extraction</a>
</div>
</div>
</div>
</td>
</tr>
</tbody>
</table>
Component APIs

- Excel (SS=HSSF+XSSF+SXSSF)
- PowerPoint (SL=HSLF+XSLF)
- Word (WP=HWPF+XWPF)
- Outlook (HSMF)
- Visio (HDGF+XDGF)
- Publisher (HPBF)

Low-level Component APIs

- OLE2 Filesystem (POIFS)
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by Tetsuya Kitahata, David Fisher
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1.1202 poi-ooxml-schemas 3.9

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards
changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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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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you conspicuously and appropriately publish on each copy an
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2. 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
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above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.

   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
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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.

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.

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.

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 compile 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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Library will not necessarily be able to recompile the application to use the modified definitions.)

b) 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.

c) 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.

d) 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 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.

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   a) The modified work must itself be a software library.

   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.

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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 compile 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) 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.

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1.1205 polkit-pkla-compat 0.1 :4.el7

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For certain options (e.g.: --smtpd_stats), Pflogsumm requires the
Date::Calc module, which can be obtained from CPAN at

Pflogsumm is currently written and tested under Perl 5.8.3.
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/* Skeleton implementation for Bison's Yacc-like parsers in C

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/* C LALR(1) parser skeleton written by Richard Stallman, by simplifying the original so-called "semantic" parser. */

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# Originally written by Per Bothner. Please send patches (context
# diff format) to <config-patches@gnu.org> and include a ChangeLog
# entry.
#
# This script attempts to guess a canonical system name similar to
# config.sub. If it succeeds, it prints the system name on stdout, and
# exits with 0. Otherwise, it exits with 1.
/

/*
* fortuna.c
* Fortuna-like PRNG.
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*
* contrib/pgcrypto/fortuna.c
*/

Name: imath.c
Purpose: Arbitrary precision integer arithmetic routines.
Author: M. J. Fromberger <http://spinning-yarns.org/michael/sw/>
Info:Id: imath.c 21 2006-04-02 18:58:36Z sting
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/*
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```
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A. HISTORY OF THE SOFTWARE

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 the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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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
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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 the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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1.1223 python-decorator 3.4.0 :3.el7
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1.1224 python-dmidecode 3.12.2 :1.1.el7

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1.1226 python-firewall 0.4.4.4 :6.el7
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1.1228 python-hwdata 1.7.3 :4.el7
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1.1229 python-kitchen 1.1.1 :5.el7

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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.

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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 the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

+----------------+--------------+-----------+------------+-----------------+
| Release         | Derived from | Year      | Owner      | GPL compatible? |
+================+==============+===========+============+=================+
| 0.9.0 thru 1.2  | n/a          | 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       | no              |
+----------------+--------------+-----------+------------+-----------------+
| 2.1             | 2.0+1.6.1    | 2001      | PSF        | no              |
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| 2.0.1           | 2.0+1.6.1    | 2001      | PSF        | yes             |
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| 2.1.1           | 2.1+2.0.1    | 2001      | PSF        | yes             |
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Mersenne Twister
-----------

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A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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Sockets
-------

The `socket` module uses the functions, `getaddrinfo`, and `getnameinfo`, which are coded in separate source files from the WIDE Project, http://www.wide.ad.jp/. ::

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MD5 message digest algorithm
-----------------------------

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at
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The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

Asynchronous socket services
----------------------------------

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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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Thanks go to the following people for patches and contributions:

Michael Hunold <m.hunold@gmx.de>  
for the initial saa7146 driver and its recent overhaul

Christian Theiss  
for his work on the initial Linux DVB driver

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for their continuing work on the DVB driver

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for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>  
for CyberLogin for Linux which allows logging onto EON  
(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

Martin Schaller <martin@smurf.franken.de>  
for patching the cable card decoder driver

Klaus Schmidinger <Klaus.Schmidinger@cadsoft.de>  
for various fixes regarding tuning, OSD and CI stuff and his work on VDR

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for his AFC kernel thread

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...and all the other dbox2 people
for many bugfixes in the generic DVB Core, frontend drivers and
their work on the dbox2 port of the DVB driver

Oliver Endriss <o.endriss@gmx.de>
for many bugfixes

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for the tda1004x frontend driver, and various bugfixes

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Augusto Cardoso <augusto@carhil.net>
for all the work for the FlexCopII chipset by B2C2,Inc.

Davor Emard <emard@softhome.net>
for his work on the budget drivers, the demux code,
the module unloading problems, ...

Hans-Frieder Vogt <hfvogt@arcor.de>
for his work on calculating and checking the crc’s for the
TechnoTrend/Hauppauge DEC driver firmware

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for the support of the Fujitsu-Siemens Activy budget DVB-S

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for the lgdt330x frontend driver, and various bugfixes

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Kirk Lapray <kirk.lapray@gmail.com>
for the or51211 and or51132 frontend drivers, and
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
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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
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* 10/5/97 - loss of link, and correctly re-enable PHY when link is
* 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

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* 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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*
* M. Welsh, 6 July 1996
*
*/

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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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M. Welsh, 6 July 1996

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{
    return (strcmp(license, "GPL") == 0
            || strcmp(license, "GPL v2") == 0
            || strcmp(license, "GPL and additional rights") == 0
            || strcmp(license, "Dual BSD/GPL") == 0
            || strcmp(license, "Dual MIT/GPL") == 0
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}
#endif
```

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for the initial saa7146 driver and its recent overhaul

Christian Theiss
for his work on the initial Linux DVB driver

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for their continuing work on the DVB driver

Michael Holzt <kju@debian.org>
for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
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Martin Schaller <martin@smurf.franken.de>
for patching the cable card decoder driver

Klaus Schmidinger <Klaus.Schmidinger@cadsoft.de>
for various fixes regarding tuning, OSD and CI stuff and his work on VDR

Steve Brown <sbrown@cortland.com>
for his AFC kernel thread

Christoph Martin <martin@uni-mainz.de>
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Wolfram Joost <dbox2@frokaschwei.de>
...and all the other dbox2 people
for many bugfixes in the generic DVB Core, frontend drivers and
their work on the dbox2 port of the DVB driver

Oliver Endriss <o.endriss@gmx.de>
for many bugfixes

Andrew de Quincey <adq_dvb@lidskialf.net>
for the tda1004x frontend driver, and various bugfixes
Peter Schildmann <peter.schildmann@web.de>
for the driver for the Technisat SkyStar2 PCI DVB card

Vadim Catana <skystar@moldova.cc>
Roberto Ragusa <r.ragusa@libero.it>
Augusto Cardoso <augusto@carhil.net>
for all the work for the FlexCopII chipset by B2C2, Inc.

Davor Emard <emard@softhome.net>
for his work on the budget drivers, the demux code,
the module unloading problems, ...

Hans-Frieder Vogt <hfvogt@arcor.de>
for his work on calculating and checking the crc’s for the
TechnoTrend/Hauppauge DEC driver firmware

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Wilson Michaels <wilsonmichaels@earthlink.net>
for the lgdt330x frontend driver, and various bugfixes

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for maintaining v4l/dvb inter-tree dependencies

Taylor Jacob <rtjacob@earthlink.net>
for the nxt2002 frontend driver

Jean-Francois Thibert <jeanfrancois@sagetv.com>
for the nxt2004 frontend driver

Kirk Lapray <kirk.lapray@gmail.com>
for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
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1.1234 python-pycurl 7.19.0 :19.el7

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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.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify
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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:

Gnomovision version 69, Copyright (C) 19yy 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.

The hypothetical commands `show w' and `show c' should show the appropriate
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Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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.

1.1237 python-slip 0.4.0 :4.el7

1.1237.1 Available under license :

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Version 2, June 1991

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   b) 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,

   c) 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.)

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.

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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.

<one line to give the program’s name and a brief idea of what it does.>
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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:

Gnomovision version 69, Copyright (C) 19yy 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.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, the commands you use may
be called something other than `show w' and `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:

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`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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1.1238 python-urlgrabber 3.10-8.el7
1.1238.1 Available under license :

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   Version 2.1, February 1999

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"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.

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   a) The modified work must itself be a software library.

   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.

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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.

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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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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.)

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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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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
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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 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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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.

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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.

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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1.1240 qrencode-libs 3.4.1 :3.el7

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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.)

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.

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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.

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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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Version 2, June 1991

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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1.1263 rpm-python 4.11.3 :25.el7

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However, unrestricted linking of non-free programs would deprive the
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 * $Id: HtspSOAPConnection.java,v 1.7 2008/09/29 06:48:21 kumarjayanti Exp$
 * $Revision: 1.7$
 * $Date: 2008/09/29 06:48:21$
 */

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 */
1.1267 saxon 9.1.0.8

1.1267.1 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) {
            
        }
    }
}
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) {
                    break;
                }
        }
    }
}
// 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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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
 */

custom boolean isInstruction() {
    return true;
}

custom 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.setCode("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;
}

//
// The contents of this file are subject to the Mozilla Public License Version 1.0 (the "License");
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 ""
        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;
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);
        }
    }

    //End try

    return (null);
}
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, " \
\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, " \
\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");
}
try {
    if (nameAtt != null) {
        StructuredQName qName = makeQName(nameAtt);
        setObjectName(qName);
        diagnosticId = nameAtt;
    }
}

try {
    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.setStackTraceMap(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 ( getObjectName(),
    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 (getObjectName() == 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);
* 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;
}
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;

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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);
            }
        } else if (e instanceof StartElementEvent) {
            push(e);
        } else if (e instanceof StartDocumentEvent) {
            push(e);
        }
        return e;
    }
}
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 ElementEvent) {
    prevAtomic = false;
pop();
if (pendingTextNode != null) {
    pendingOutput = e;
PullEvent next = pendingTextNode;
pendingTextNode = null;
return next;
} else {
    return e;
}
} else if (e instanceof TextNode) {
    return e;
}
} else if (e instanceof NodeInfo) {
    prevAtomic = false;
} else {
    return e;
}
} 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;
} else {
    return e;
}
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;
        }
    }
}
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 ns = 0; ns < nsp.length; ns++) {
            if (nsp[ns] == -1) {
                break;
            }
        }
        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[ns] == nsq[nsqi]) {
                        nsp[ns] = -1;
                    }
                }
            }
        }
    }
}
retrai\textendash; \\
break outer \\
} else if (nsp[nspiercise]>>16 == nsx[nsqni]>>16) \\
break outer \\
}
}
}
}
if (retained < nsp.length) \\
int[n] nsr = new int[retained]; \\
int nsri = 0; \\
for (int nspi=0; nspi<nsp.length; nsri++) \\
if (nsp[nspi]fore -1) \\
nsr[nssri++] = 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;
    }
public void setPipelineConfiguration(PipelineConfiguration pipe) {
    this.pipe = pipe;
}

public PipelineConfiguration getPipelineConfiguration() {
    return pipe;
}

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:
                    //addCommentComment((Comment)item);
                    break;
            }
        }
    } 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:
                //addCommentComment((Comment)item);
                break;
        }
    }
    return currentEvent;
}
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>
 * 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>
 * It is permissible for this method to return namespace declarations that are redundant.</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>
 * 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,
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();
        }
    }
}

public int getFingerprint() {
    int nc = getNameCode();
    if (nc == -1) {
        return -1;
    } else {
        return nc & NamePool.FP_MASK;
    }
}

/**
 * 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/>
 * In other situations the result is undefined and may result in an IllegalStateException.</p>
 * @return the string value of the current element, text node, processing-instruction,
 * or top-level attribute or namespace node, or atomic value.
 */

public String getValue() {
    int nc = getNameCode();
    if (nc == -1) {
        return null;
    } 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/>
 * 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();
}
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..TRATIONS;
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.
 */
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().getDisplayNames(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
 * ![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
 * @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 & 0xffffff;
}

/**
 * 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().getDisplay_name(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
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());
    }
}

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;
    }
    return Navigator.filteredSingleton(this, nodeTest);
}
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
*/

```java
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
*/

```java
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
*/

```java
public DocumentInfo getDocumentRoot() {
    NodeInfo root = getRoot();
    if (root.getNodeKind() == Type.DOCUMENT) {
        return (DocumentInfo)root;
    } else {
        return null;
    }
}
```

/**
* Get the configuration
*/

```java
public Configuration getConfiguration() {
    return tree.getConfiguration();
}
```
public NamePool getNamePool() {
    return tree.getNamePool();
}

public int[] getDeclaredNamespaces(int[] buffer) {
    return null;
}

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 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.
 */

/*
 * 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
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;
}

abstract class TinyParentNodeImpl extends TinyNodeImpl {

/**
 * TinyParentNodeImpl is an implementation of a non-leaf node (specifically, an Element node
 * or a Document node)
 * @author Michael H. Kay
 */

public final boolean hasChildNodes() {
    return (nodeNr+1 < tree.numberOfLinesNodes &&
            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];
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(TinyTextImpl.getStringValue(tree, next));
    } else if (kind==Type.WHITESPACE_TEXT) {
        if (sb==null) {
            sb = new FastStringBuffer(1024);
        }
        WhitespaceTextImpl.appendStringValue(tree, next, sb);
    }
    next++;
} else if (sb==null) return "";
return sb.condense();
}
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()));
    }

    /**
     * Contributor(s): none.
     */
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 &lt;code&gt;&lt;/code&gt;.
 * @return the content of the processing instruction (in XDM this is the
 * same as its string value)
 */
public String getData() {
    return getStringValue();
}

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] & 0xffffffff;
}

/**
 * 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);
}

}
* 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 + ") > 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;
    }

}
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);
}

}
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);
        // Code continues here...
    }
    // Code continues here...
}
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] & 0xffffffff) == 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();
}
/**
 * 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 getValue() {
    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 getCharSequence() {
    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 getCharSequence(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(getStringValue(), 0, 0);
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.numberOfNamespaces &&
               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 nscode = tree.namespaceCode[ns];

                    // See if the prefix has already been declared; if so, this declaration is ignored
                    short prefixCode = (short)(nscode >> 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++] = nscode;
                    }
            }
        }
    }
}
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 nscode = buffer[i];
    if ((nscode & 0xffff) != 0) {
        buffer[j++] = nscode;
    }
}
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] & 0xfffff) == 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);

    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(ns, 0);
                    nscode =
            }
        }
    } 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();
}

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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) { // 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);
            }
        }
        return null;
    }
    return null;
}

// now search the namespaces defined on the ancestor nodes.
NodeInfo parent = getParent();
if (parent instanceof NamespaceResolver) {
    return ((NamespaceResolver)parent).getURIForPrefix(prefix, useDefault);
} else {
    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 Original Code is: all this file.
//
// The Initial Developer of the Original Code is Michael H. Kay.
//
// 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 java.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 IllegalArgument 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 always ignores element content whitespace");
    }
    // Other checks...

    // Create and configure a new DocumentBuilder

    DocumentBuilderImpl builder = new DocumentBuilderImpl(config);
    // Configure builder...

    return builder;
}
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;

/**
 * Set a feature for this <code>DocumentBuilderFactory</code> and <code>DocumentBuilder</code>s created by this factory.
 * 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.
 * <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><code>false</code>: the implementation will processing XML according to the XML specifications without
 * regard to possible implementation limits.
 * <ul>
 * <li>When the feature is:
 * <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><code>false</code>: the implementation will processing XML according to the XML specifications without
 * regard to possible implementation limits.
 * */
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);
    }
}

/**
 * Get the state of the named feature.
 */
public boolean getFeature(String name) throws ParserConfigurationException {
    if (name.equals(FEATURE_SECURE_PROCESSING)) {
        return false;
    } else {
        throw new ParserConfigurationException("Unsupported feature: " + name);
    }
}

/**
 * Get state of XInclude processing.
 */
* @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>
 * If XInclude markup is found in the document instance, should it be
 * processed as specified in &lt;a href="http://www.w3.org/TR/xinclude/"
 * XML Inclusions (XInclude) Version 1.0&lt;/a&gt;.&lt;/p&gt;
 * &lt;p&gt;
 * XInclude processing defaults to &lt;code&gt;false&lt;/code&gt;.&lt;/p&gt;
 * *
 * @param state Set XInclude processing to &lt;code&gt;true&lt;/code&gt; or
 * &lt;code&gt;false&lt;/code&gt;
 * @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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/**
 * 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
 * <code>NodeList</code>. In particular, implementations may raise other exceptions under other circumstances.
 * For example, implementations may raise an implementation-dependent
 * exception if a <code>null</code> argument is passed.
 * See also the <a href='http://www.w3.org/TR/2000/CR-DOM-Level-2-20000510'>Document Object Model
 * (DOM) Level 2 Specification</a>.
 */

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;
    public static final short INVALID_STATE_ERR = 11;

    public static final short SYNTAX_ERR = 12;
}

public static final short INVALID_MODIFICATION_ERR  = 13;

public static final short NAMESPACE_ERR             = 14;

public static final short INVALID_ACCESS_ERR        = 15;

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.
 *    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.
}
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
*/

```java
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
*/

```java
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.
 */

```java
public boolean isNamespaceAware() {
    return true;
}
```

/**
 * Determine whether the document builder should perform DTD validation
 * @param state set to true to request DTD validation
 */

```java
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
 * @implNote 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 <code>IllegalArgumentException</code> is thrown if the
 * <code>File</code> is <code>null</code>.
 * <p>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.
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 &lt;code&gt;null&lt;/code&gt; will result in the underlying
 * implementation using the EntityResolver registered with the
 * XMLReader contained in the InputSource.
 *
 * @param er The &lt;code&gt;EntityResolver&lt;/code&gt; 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 &lt;code&gt;null&lt;/code&gt; will result in the underlying
 * implementation using the ErrorHandler registered with the
 * XMLReader contained in the InputSource.
 *
 * @param eh The &lt;code&gt;ErrorHandler&lt;/code&gt; to be used by the parser.
 */

public void setErrorHandler(ErrorHandler eh) {
    errorHandler = eh;
}

/**
 * Obtain an instance of a [@link DOMImplementation] object.
 *
public DOMImplementation getDOMImplementation() {
    return newDocument().getImplementation();
}

/**
 * Set state of XInclude processing.
 * <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>.
 * XInclude processing defaults to <code>false</code>.</p>
 * @param state Set XInclude processing to <code>true</code> or <code>false</code>
 */
public void setXIncludeAware(boolean state) {
    xIncludeAware = state;
}

/**
 * Get the XInclude processing mode for this parser.
 * @return the return value of the <code>DocumentBuilderFactory#isXIncludeAware()</code> 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 <code>Whitespace#IGNORABLE</code>, <code>Whitespace#ALL</code>, or <code>Whitespace#NONE</code>
 * @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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//
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.
 * @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.
 *
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];
}
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
 */

class 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 attribute location.
 * @param properties Attribute properties
 */

class 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;

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 attribute 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);
}

 rút
/**
 * 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)];
}

 rút
/**
 * 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;
    }

/**
* 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_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;
    }
    return findByName(qname);
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
*
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;
}

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;
}

public boolean isIdref(int index) {
    return config.getTypeHierarchy().isIdrefsCode(getTypeAnnotation(index));
}

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);
    }
/**
 * 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;
    }
}
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();
}
public CharSequence getStringValue() {
    return current.getStringValueCS();
}

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.valueWhitespace;
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;

/**
 * TransformerHandlerImpl 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.xsl")));
//        // 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");
}

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]);
   }
}
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);
}
/**
 * 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;
    }
    return found;
}
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.

```java
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 of 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.

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 getObjectName() {
    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);
}
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.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);

/**
 * 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.
 */
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);
}
}

} // 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;
  }
}
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:
    return;
    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);
    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;
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
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) {
public TailCall processLeavingTail() throws XPathException {
    return applyTemplates(
        Value.getIterator(selectedNodes),
        mode, params, tunnelParams, evaluationContext, false, locationId);
}

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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
 */
/**
 * 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>
 */

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;
}
public Item.Type 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.
 *
 */
public Iterator iterateSubExpressions() {
    return new PairIterator(select, separator);
}

/**
 * Replace one subexpression by a replacement subexpression
 *
 */
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 &amp;&amp; !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;
                    }
                }
            }
        }
    }
}

break;
}

if (!first) {
    if (sep == null) {
        sep = separator.evaluateItem(context).getStringValueCS();
    }
    sb.append(sep);
}
first = false;
            sb.append(item2.getStringValueCS());
}
}

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 prefered.
 */

public int getImplementationMethod() {
    return Expression.EVALUATE_METHOD;
}


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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
 */
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) {
    
}
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;
    }
}

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
 */
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
 */
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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//
// The Original Code is: all this file.
//
// The Initial Developer of the Original Code is Michael H. Kay.
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.</p>
 *
 */

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 \texttt{@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 \texttt{@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);
**
* 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.
     */
private Source compositeStylesheet(String baseURI, Source[] sources) throws TransformerConfigurationException {

    if (sources.length == 1) {
        return sources[0];
    } else if (sources.length == 0) { // no stylesheets were supplied
        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 = newTemplates(src);
    return newTransformerHandler(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.
 */

public TransformerHandler newTransformerHandler(Transformers src)
        throws TransformerConfigurationException {
    Templates tmpl = newTemplates(src);
    return newTransformerHandler(tmpl);
}
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);
}

public TransformerHandler newTransformerHandler() throws TransformerConfigurationException {
    Controller controller = new IdentityTransformer(config);
    return new IdentityTransformerHandler(controller);
}

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 = newTemplates(src);
    return newXMLFilter(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>
 *
 * 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.

* When the feature is:

  * `<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.
  * `<code>false</code>`: the implementation will processing XML according to the XML specifications without regard to possible implementation limits.

* @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.

```java
downloads/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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// License at http://www.mozilla.org/MPL/
//
// Software distributed under the License is distributed on an "AS IS" basis,
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.
     */

public void setArguments(Expression[] sub) {
    arguments = sub;
    for (int i=0; i<sub.length; i++) {
        adoptChildExpression(sub[i]);
    }
}

public Iterator iterateSubExpressions() {
    return Arrays.asList(arguments).iterator();
}

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;
}

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;
}

* @param sub an array containing the sub-expressions of this expression
* /

* Get the immediate sub-expressions of this expression.
* @return an array containing the sub-expressions of this expression
* /

* 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
* /

* Simplify the expression
* @return the simplified expression
* @param visitor an expression visitor
* /

*
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
 * propagated). 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 & Evaluation.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 & Evaluation.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
*/
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();
            // Process the item
        }
    } else {
        // Process the instruction
    }
}
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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//
// The Original Code is: all this file.
//
// The Initial Developer of the Original Code is Michael H. Kay.
//
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;

/**
 * The JAXP XPathExpression interface represents a compiled XPath expression that can be repeatedly evaluated. This class is Saxon's implementation of that interface.
 * @author Michael H. Kay
 */

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;

    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;
    }

    }
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.
*

```java
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.
*/

```java
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
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.</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></tr></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></tbody>
* </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);

if (node instanceof NodeInfo)
    contextNode = (NodeInfo)node;
else {
    JPConverter converter = JPConverter.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.
 * @param <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.
 */

public Expression getInternalExpression() {
    return expression;
}

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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

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. 
 * </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 XMLConstants#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);
    return xpath;
}
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
     */
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&0xfffff)==(otherAtt.nameCode&0xfffff)));
}

/**
 * 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 nscode = getNamePool().getNamespaceCode(newNameCode);
            int prefixCode = nscode>>16 & 0xffff;
            short uc = ((ElementImpl)parent).getURICodeForPrefixCode(prefixCode);
            if (uc == -1) {
                parent.addNamespace(nscode, false);
            } else if (uc != (nscode&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
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', 'c', '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 + ""
            } catch (Exception err) {
                typeName = annotation + "";
            } catch (Exception err) {
                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) {

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));
    }
}

public String getSystemId() {
    return parent.getSystemId();
}

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;
public NodeInfo getPreviousSibling() {
    if (parent == null) {
        return null;
    }
    return parent.getNthChild(index - 1);
}

public NodeInfo getNextSibling() {
    if (parent == null) {
        return null;
    }
    return parent.getNthChild(index + 1);
}

public NodeInfo getFirstChild() {
    return null;
}

public NodeInfo getLastChild() {

}
/**
 * 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 null;
        }
    }
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
   isInNelled 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> </p>
 *<p>If this node is not an element, or if it has no attribute with the specified name, this method takes no action.</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>
 *<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 nscode, 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>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>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
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>
 *
 *<p>@param source the nodes to be inserted
 *<p>@param before true if the new nodes are to be inserted before the target node; false if they are
 *<p>@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.
 *<p>@return a new Builder that constructs nodes using the same object model implementation
 *<p>as this one, suitable for attachment to this tree
 */

public Builder newBuilder() {
    return getPhysicalRoot().newBuilder();
public class ElementImpl extends ParentNodeImpl implements NamespaceResolver {

    private static final AttributeCollectionImpl emptyAtts = new AttributeCollectionImpl(null);

    /**
     * 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.
     *<p>
     * @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);
}
**
* 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.DESCENDANT_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 nscode = getNamePool().getNamespaceCode(newNameCode);
    int prefixCode = nscode>>16 & 0xffff;
    short uc = getURICodeForPrefixCode(prefixCode);
    if (uc == -1) {
        addNamespace(nscode, false);
    } else if (uc != (nscode&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 nscode 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 nscode, boolean inherit) {
    if ((nscode&0xffff) == 0) {
        throw new IllegalArgumentException("Cannot add a namespace undeclaration");
    }
    addNamespaceInternal(nscode, 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 = nscode & 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 nscode, boolean externalCall) {
    if (namespaceList == null) {
        namespaceList = new int[]{nscode};
    } else {
        for (int i=0; i<namespaceList.length; i++) {
            if (namespaceList[i] == nscode) {
                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>
 * 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));
        }
    }
}
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);
}

public void removeTypeAnnotation() {
    int t = getTypeAnnotation();
    if (t != StandardNames.XS_UNTYPED) {
        typeCode = StandardNames.XS_ANY_TYPE;
        parent.removeTypeAnnotation();
    }
}

public void setNamespaceDeclarations(int[] namespaces, int namespacesUsed) {
    namespaceList = new int[namespacesUsed];
    System.arraycopy(namespaces, 0, namespaceList, 0, namespacesUsed);
}

/**
 * Remove an attribute from this element node
 * @param nameCode the name of the attribute to be removed
 */

/**
 * Remove type information from this node (and its ancestors, recursively).
 * This method implements the upd:removeType() primitive defined in the XQuery Update specification
 */

/**
 * 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
 */

/**
 * Get the namespace URI corresponding to a given prefix. Return null
 */
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);
}

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 iter.next();
            }
        }
    };
}

/*
 * 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 iter.next();
            }
        }
    };
}
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 nscode = namespaceList[i];
        String prefix = pool.getPrefixFromNamespaceCode(nscode);
        String uri = pool.getURIFromNamespaceCode(nscode);
        String parentUri = inscope.getURIForPrefix(prefix, true);
        if (parentUri != null && parentUri.equals(uri)) {
            // the namespace declaration is redundant
            childNamespaces.remove(nscode);
        }
    }
}

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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//
// The Original Code is: all this file.
//
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 outpuetter
 */

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;
        }
        // ...
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 node of the required type, 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);
                    System.arraycopy(n2, 0, nodes, i, nodes.length - i - 1);
                } else {
                    System.arraycopy(nodes, i, n2, 0, nodes.length - i - 1);
                    System.arraycopy(n2, nodes.length - i - 1, nodes, i, 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;
            }
        } else {
            node.index = j;
            c2[j++] = node;
        }
    }
    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) {
```java
    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;
} else {
    c[index] = node;
    node.parent = this;
    node.index = index;
    children = c;
}

/**
 * Insert copies of a sequence of nodes as children of this node.
 * <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/>
 * 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
 *                 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 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);
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) {
        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
 */

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.valueWhitespace;
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 ElementImpl documentElement;

    private HashMap idTable = null;
    private int documentNumber;
    private String baseURI;
    private HashMap entityTable = null;
    private HashMap elementList = null;
    //private StringBuffer characterBuffer;

    //private static int nextDocumentNumber = 0;

    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);
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
 */
void setSystemId(int seq, String uri) {
    if (uri==null) {
        uri = "";
    }
    systemIdMap.setSystemId(seq, uri);
}
 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;
}
public void generateId(FastStringBuffer buffer) {
    buffer.append('d');
    buffer.append(Integer.toString(documentNumber));
}

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);
}

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);
    }
}
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);
    }
}

public NodeInfo selectID(String id) {
    if (idTable == null) indexIDs();
    return (NodeInfo) idTable.get(id);
}

protected void deregisterID(String id) {
    id = Whitespace.trim(id);
    if (idTable != null) {
        idTable.remove(id);
    }
}

/**
 * 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
 */

/**
 * 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.
 */

/**
 * 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
 */

/**
 * 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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//
// The Original Code is: all this file
//
// The Initial Developer of the Original Code is Michael H. Kay.
//
// Contributor(s):
//
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.
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 &lt;code&gt;?&amp;&gt;.&lt;/code&gt;.
 * @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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// WITHOUT WARRANTY OF ANY KIND, either express or implied.
// See the License for the specific language governing rights and limitations under the License.
//
// The Original Code is: all this file.
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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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.
 */
* An item is a member of a sequence, but it can also be considered as a sequence (of length one) in its own right. XdmItem is a subtype of XdmValue because every Item in the XDM data model is also a value.

* It cannot be assumed that every sequence of length one will be represented by an XdmItem. It is quite possible for an XdmValue that is not an XdmItem to hold a singleton sequence.

* Saxon provides two concrete subclasses of XdmItem, namely XdmNode and XdmAtomicValue. Users must not attempt to create additional subclasses.

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 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.

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.

@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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//
// The Original Code is: all this file
//
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 IGNORABLE 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.
     */
    IGNORABLE,
    /**
     * The value ALL indicates that all whitespace-only text nodes are discarded.
     */
    ALL,
    /**
     * UNSPECIFIED means that no other value has been specifically requested.
     */
    UNSPECIFIED
}
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('﻿');
            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 {}
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;
public Properties getOutputProperties() {
    return outputProperties;
}

public void setStreamResult(StreamResult result) throws XPathException {
    streamResult = result;
    if (systemId == null) {
        systemId = result.getSystemId();
    }
}

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).getAbsoluteFile().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 {
    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().getListener().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 {}
* 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");
```java
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", "noshade");
    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 HTMLEmitter() {

}

/**
 * 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++;
            }
        }
    } 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("&amp;");
}
} 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("&amp;");
} 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

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//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
//(FirstChar - D800) * 400 + (SecondChar - DC00) + 10000

int charval = (((int)c - 55296) * 1024) + ((int)chars.charAt(i+1) - 56320) + 65536;
outputCharacterReference(charval);
i++;
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",    // "&nbsp;" -- no-break space = non-breaking space,
                // U+00A0 ISOnum -->
    "iexcl",   // "&iexcl;" -- inverted exclamation mark, U+00A1 ISOnum -->
    "cent",    // "&cent;" -- cent sign, U+00A2 ISOnum -->
    "pound",   // "&pound;" -- pound sign, U+00A3 ISOnum -->
    "curren",  // "&curren;" -- currency sign, U+00A4 ISOnum -->
    "yen",     // "&yen;" -- 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", // "&amp;" -- copyright sign, U+00A9 ISOnum -->
"ordf", // "&amp;" -- feminine ordinal indicator, U+00AA ISOnum -->
"raquo", // "&amp;" -- left-pointing double angle quotation mark
    // = left pointing guillemet, U+00AB ISOnum -->
"not", // "&amp;" -- not sign, U+00AC ISOnum -->
"shy", // "&amp;" -- soft hyphen = discretionary hyphen,
    // U+00AD ISOnum -->
"reg", // "&amp;" -- registered sign = registered trade mark sign,
    // U+00AE ISOnum -->
"macr", // "&amp;" -- macron = spacing macron = overline
    // = APL overbar, U+00AF ISOdia -->
"deg", // "&amp;" -- degree sign, U+00B0 ISOnum -->
"plusmn", // "&amp;" -- plus-minus sign = plus-or-minus sign,
    // U+00B1 ISOnum -->
"sup2", // "&amp;" -- superscript two = superscript digit two
    // = squared, U+00B2 ISOnum -->
"sup3", // "&amp;" -- superscript three = superscript digit three
    // = cubed, U+00B3 ISOnum -->
"acute", // "&amp;" -- acute accent = spacing acute,
    // U+00B4 ISOdia -->
"micro", // "&amp;" -- micro sign, U+00B5 ISOnum -->
"para", // "&amp;" -- pilcrow sign = paragraph sign,
    // U+00B6 ISOnum -->
"middot", // "&amp;" -- middle dot = Georgian comma
    // = Greek middle dot, U+00B7 ISOnum -->
"cedil", // "&amp;" -- cedilla = spacing cedilla, U+00B8 ISOdia -->
"sup1", // "&amp;" -- superscript one = superscript digit one,
    // U+00B9 ISOnum -->
"ordm", // "&amp;" -- masculine ordinal indicator,
    // U+00BA ISOnum -->
"raquo", // "&amp;" -- right-pointing double angle quotation mark
    // = right pointing guillemet, U+00BB ISOnum -->
"frac14", // "&amp;" -- vulgar fraction one quarter
    // = fraction one quarter, U+00BC ISOnum -->
"frac12", // "&amp;" -- vulgar fraction one half
    // = fraction one half, U+00BD ISOnum -->
"frac34", // "&amp;" -- vulgar fraction three quarters
    // = fraction three quarters, U+00BE ISOnum -->
"iquest", // "&amp;" -- inverted question mark
    // = turned question mark, U+00BF ISOnum -->
"Agrave", // "&amp;" -- latin capital letter A with grave
    // = latin capital letter A grave,
    // U+00C0 ISOlat1 -->
"Aacute", // "&#193;" -- latin capital letter A with acute,
// U+00C1 ISOlat1 -->
"Acirc", // "&#194;" -- latin capital letter A with circumflex,
// U+00C2 ISOlat1 -->
"Atilde", // "&#195;" -- latin capital letter A with tilde,
// U+00C3 ISOlat1 -->
"Auml", // "&#196;" -- latin capital letter A with diaeresis,
// U+00C4 ISOlat1 -->
"Aring", // "&#197;" -- latin capital letter A with ring above
// = latin capital letter A ring,
// U+00C5 ISOlat1 -->
"AElig", // "&#198;" -- latin capital letter AE
// = latin capital ligature AE,
// U+00C6 ISOlat1 -->
"Ccedil", // "&#199;" -- latin capital letter C with cedilla,
// U+00C7 ISOlat1 -->
"Egrave", // "&#200;" -- latin capital letter E with grave,
// U+00C8 ISOlat1 -->
"Eacute", // "&#201;" -- latin capital letter E with acute,
// U+00C9 ISOlat1 -->
"Ecirc", // "&#202;" -- latin capital letter E with circumflex,
// U+00CA ISOlat1 -->
"Euml", // "&#203;" -- latin capital letter E with diaeresis,
// U+00CB ISOlat1 -->
"Igrave", // "&#204;" -- latin capital letter I with grave,
// U+00CC ISOlat1 -->
"Iacute", // "&#205;" -- latin capital letter I with acute,
// U+00CD ISOlat1 -->
"Icirc", // "&#206;" -- latin capital letter I with circumflex,
// U+00CE ISOlat1 -->
"Iuml", // "&#207;" -- latin capital letter I with diaeresis,
// U+00CF ISOlat1 -->
"ETH", // "&#208;" -- latin capital letter ETH, U+00D0 ISOlat1 -->
"Ntilde", // "&#209;" -- latin capital letter N with tilde,
// U+00D1 ISOlat1 -->
"Ograve", // "&#210;" -- latin capital letter O with grave,
// U+00D2 ISOlat1 -->
"Oacute", // "&#211;" -- latin capital letter O with acute,
// U+00D3 ISOlat1 -->
"Ocirc", // "&#212;" -- latin capital letter O with circumflex,
// U+00D4 ISOlat1 -->
"Otilde", // "&#213;" -- latin capital letter O with tilde,
// U+00D5 ISOlat1 -->
"Ouml", // "&#214;" -- latin capital letter O with diaeresis,
// U+00D6 ISOlat1 -->
"times", // "&#215;" -- multiplication sign, U+00D7 ISOnum -->
"Oslash", // "&#216;" -- latin capital letter O with stroke
// = latin capital letter O slash,
//                       U+00D8 ISOlat1 -->
"Ugrave", // ",&#217;" -- latin capital letter U with grave,
  //                       U+00D9 ISOlat1 -->
"Uacute", // ",&#218;" -- latin capital letter U with acute,
  //                       U+00DA ISOlat1 -->
"Ucirc", // ",&#219;" -- latin capital letter U with circumflex,
  //                       U+00DB ISOlat1 -->
"Uuml", // ",&#220;" -- latin capital letter U with diaeresis,
  //                       U+00DC ISOlat1 -->
"Yacute", // ",&#221;" -- latin capital letter Y with acute,
  //                       U+00DD ISOlat1 -->
"THORN", // ",&#222;" -- latin capital letter THORN,
  //                       U+00DE ISOlat1 -->
"szlig", // ",&#223;" -- latin small letter sharp s = ess-zed,
  //                       U+00DF ISOlat1 -->
"agrave", // ",&#224;" -- latin small letter a with grave
  //                       = latin small letter a grave,
  //                       U+00E0 ISOlat1 -->
"aacute", // ",&#225;" -- latin small letter a with acute,
  //                       U+00E1 ISOlat1 -->
"acirc", // ",&#226;" -- latin small letter a with circumflex,
  //                       U+00E2 ISOlat1 -->
"atilde", // ",&#227;" -- latin small letter a with tilde,
  //                       U+00E3 ISOlat1 -->
"auml", // ",&#228;" -- latin small letter a with diaeresis,
  //                       U+00E4 ISOlat1 -->
"aring", // ",&#229;" -- latin small letter a with ring above
  //                       = latin small letter a ring,
  //                       U+00E5 ISOlat1 -->
"aelig", // ",&#230;" -- latin small letter ae
  //                       = latin small ligature ae, U+00E6 ISOlat1 -->
"ccedil", // ",&#231;" -- latin small letter c with cedilla,
  //                       U+00E7 ISOlat1 -->
"egrave", // ",&#232;" -- latin small letter e with grave,
  //                       U+00E8 ISOlat1 -->
"eacute", // ",&#233;" -- latin small letter e with acute,
  //                       U+00E9 ISOlat1 -->
"ecirc", // ",&#234;" -- latin small letter e with circumflex,
  //                       U+00EA ISOlat1 -->
"euml", // ",&#235;" -- latin small letter e with diaeresis,
  //                       U+00EB ISOlat1 -->
"igrave", // ",&#236;" -- latin small letter i with grave,
  //                       U+00EC ISOlat1 -->
"iacute", // ",&#237;" -- latin small letter i with acute,
  //                       U+00ED ISOlat1 -->
"icirc", // ",&#238;" -- latin small letter i with circumflex,
  //                       U+00EE ISOlat1 -->
"iuml", // ",&#239;" -- latin small letter i with diaeresis,
"eth", "\&\#240;" -- latin small letter eth, U+00F0 ISOlat1 -->
"ntilde", "\&\#241;" -- latin small letter n with tilde,
    // U+00F1 ISOlat1 -->
"ograve", "\&\#242;" -- latin small letter o with grave,
    // U+00F2 ISOlat1 -->
"oacute", "\&\#243;" -- latin small letter o with acute,
    // U+00F3 ISOlat1 -->
"ocirc", "\&\#244;" -- latin small letter o with circumflex,
    // U+00F4 ISOlat1 -->
"otilde", "\&\#245;" -- latin small letter o with tilde,
    // U+00F5 ISOlat1 -->
"ouml", "\&\#246;" -- latin small letter o with diaeresis,
    // U+00F6 ISOlat1 -->
"divide", "\&\#247;" -- division sign, U+00F7 ISOnum -->
"oslash", "\&\#248;" -- latin small letter o with stroke,
    // = latin small letter o slash,
    // U+00F8 ISOlat1 -->
"ugrave", "\&\#249;" -- latin small letter u with grave,
    // U+00F9 ISOlat1 -->
"uacute", "\&\#250;" -- latin small letter u with acute,
    // U+00FA ISOlat1 -->
"ucirc", "\&\#251;" -- latin small letter u with circumflex,
    // U+00FB ISOlat1 -->
"uuml", "\&\#252;" -- latin small letter u with diaeresis,
    // U+00FC ISOlat1 -->
"yacute", "\&\#253;" -- latin small letter y with acute,
    // U+00FD ISOlat1 -->
"thorn", "\&\#254;" -- latin small letter thorn,
    // U+00FE ISOlat1 -->
"yuml" "\&\#255;" -- latin small letter y with diaeresis,
    // U+00FF ISOlat1 -->
};

}

//
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//
// The Original Code is: all this file.
//
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[\"\v\"] = false;
    specialInText[\"\r\"] = true;
    specialInText[\"\n\"] = false;
    specialInText[\"\r\"] = true;
    specialInText[\"\n\"] = false;
    specialInText[\"\t\"] = true;
    specialInText[\"\n\"] = true;
    specialInText[\"\r\"] = true;
    specialInText[\"\t\"] = true;
    specialInText[\"\n\"] = false;
    specialInText[\"\"\"] = true;
    specialInText[\"\"\"] = false;
    specialInText[\"\"\"] = 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('﻿');
        }
        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 + ">
if (systemId!=null && publicId==null) {
  writer.write(" SYSTEM " + systemId + ">
} else if (systemId==null && publicId!=null) {   // handles the HTML case
  writer.write(" PUBLIC " + publicId + ">
} else {
  writer.write(" PUBLIC " + publicId + " " + systemId + ">

} 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");
}

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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);

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("Character \\
                        " + badchar + " not available in the selected encoding");
                err.setErrorCode("SERE0008");
                throw 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 {

} catch (java.io.IOException err) {
    throw new XPathException(err);
}
}
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(attname);
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);

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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;
}

/**
 * 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
 */

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(ca)) {
                    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) {

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 {
                writer.write("\x" + Integer.toHexString(c));
            }
        }
    }
}

/**
 * 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 writeContents(final char[] chars) throws java.io.IOException, XPathException {
    writer.write(chars, 0, chars.length());
}

}
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 {
            outputCharacterReference(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 {
        outputCharacterReference(c);
    }
}
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);
}
}
}

// process special ASCII characters
if (c=='<') {
    writer.write("<");
} else if (c=='>') {
    writer.write(">");
} else if (c=='&') {
    writer.write("&");
} else if (c=='"') {
    writer.write(""");
} else if (c=='
') {
    writer.write("\n");
} else if (c=='') {
    writer.write("\n");
} else if (c=='	') {
    writer.write("\t");
} 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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//
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 (!open || !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('
');
        } 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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    // License at http://www.mozilla.org/MPL/
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
 */

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;
                }
            }
            getUnderlyingReceiver().startElement(nameCode, typeCode, locationId, properties);
        }
    }
private static final class PendingNode {
    int kind;
    String name;
    CharSequence content;
    int properties;
    int locationId;
}

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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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);
```java
    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;
elementIsInNullNamespace = 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 nscode The namespace code
 * @param properties
 * @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 nscode, 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+i > 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)) {
             // 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 (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 nscode = namePool.getNamespaceCode(nameCode);
    if (nscode == -1) {
        // avoid calling allocate where possible, because it's synchronized
        nscode = namePool.allocateNamespaceCode(nameCode);
    }
    int nsprefix = nscode>>16;
    for (int i=0; i<pendingNSListSize; i++) {
        if (nsprefix == (pendingNSList[i]>>16)) {
            // same prefix
            if ((nscode & 0xffff) == (pendingNSList[i] & 0xffff)) {
                // same URI
                return nameCode;// all is well
            } else {
                String prefix = getSubstitutePrefix(nscode, 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(nscode, 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
private String getSubstitutePrefix(int nscode, int seq) {
    String prefix = getNamePool().getPrefixFromNamespaceCode(nscode);
    return prefix + '_' + seq;
}

public void endElement() throws XPathException {
    if (pendingStartTag >= 0) {
        startContent();
    } else {
        pendingStartTag = -2;
    }

    nextReceiver.endElement();
    level--;
    previousAtomic = false;
}

public void comment(CharSequence comment, int locationId, int properties) throws XPathException {
    if (pendingStartTag >= 0) {
        startContent();
    }
    nextReceiver.comment(comment, locationId, properties);
    previousAtomic = false;
}

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;
}
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[] emptyTagNames = {
    "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<emptyTagNames.length; i++) {
        emptyTags.add(pool.allocate("", NamespaceConstant.XHTML, emptyTagNames[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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//
// The Original Code is: all this file.
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.valueWhitespace;

/**
 * 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 getNamespace() {
        return "anySimpleType";
    }
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;
}

/**
 * Determine 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 isEmptiable() 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
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.
 * @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;

}
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
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.valueWhitespace#PRESERVE\}, \{ @link net.sf.saxon.valueWhitespace#COLLAPSE\}, \{ @link net.sf.saxon.valueWhitespace#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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1.1268 Saxon-HE-9.4 9.4

1.1269 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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February 01, 2006
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Revision:
1.0 - Initial creation

1.1270 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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Revision:
1.0 - Initial creation

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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, while the latter only works together with the library.

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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.

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"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
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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.)

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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.

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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 compile 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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c) 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 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.

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The test programs in this directory tree are for demonstrating and
testing the functionality of the SDL library, and are placed in the
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October 28, 1997

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Sam Lantinga(slouken@libsdl.org)

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Version 2.1, February 1999

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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.

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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 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.

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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
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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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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.)

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1.1341 Spring Security - Namespace

Configuration Module 3.0.0.RELEASE

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1.1342 Spring Security - OpenID support

3.0.0.RELEASE

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1.1353 spring-asm 3.0.3.RELEASE
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*/

1.1354 spring-asm 3.0.0.RELEASE

1.1354.1 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.springsource.XXXX? for e.g, org.springsource.org.antlr ? and they have their own separate licenses.

Thanks,
Yathi.

From: Yathiraj Udupi (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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http://www.apache.org/licenses/LICENSE-2.0.txt
HTML format
http://www.apache.org/licenses/LICENSE-2.0.html
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

Thanks,
Yathi.

From: Linda Shonk (lshonk)
Sent: Thursday, August 05, 2010 12:37 PM
To: Yathiraj Udupi (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 Udupi (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 and update your incident at http://support.springsource.com/spring_support_client_getIncidentById/9815
Reference # 9815
Subject: URGENT: License files missing for Springframework modules in Springsource Enterprise Repository

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 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,
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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http://www.apache.org/licenses/LICENSE-2.0.txt
HTML format
http://www.apache.org/licenses/LICENSE-2.0.html
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
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.springsource.com/repository/app/bundle/version/detail?name=org.springframework.asm&version=3.4.0.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>
<RequestID>C36AA496B452C999</RequestID>
Requested-HostId>
fdPz4L7hLvTnc8Do+aiWkb2Ck1Y6yu5ela3EucZ5p1ySr5w6Gcp0FgutiZxERJSp
</HostId>
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 and update your incident at
http://support.springsource.com/spring_support_client_getIncidentById/9815

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 */
package org.springframework.loaded.agent;

import java.beans.BeanInfo;
import java.beans.Introspector;
import java.lang.reflect.Field;
import java.lang.reflect.Method;
import java.security.ProtectionDomain;
import java.util.Collection;
import java.util.Map;
import java.util.concurrent.ConcurrentHashMap;
import java.util.concurrent.ConcurrentMap;
import org.springsource.loaded.GlobalConfiguration;
import org.springsource.loaded.LoadtimeInstrumentationPlugin;
import org.springsource.loaded.ReloadEventProcessorPlugin;

/**
 * Reloading plugin for 'poking' JVM classes that are known to cache reflective state. Some of the behaviour is
 * switched ON based on
 * which classes are loaded. For example the Introspector clearing logic is only activated if the Introspector gets
 * loaded.
 *
 * @author Andy Clement
 * @since 0.7.3
 */
public class JVMPlugin implements ReloadEventProcessorPlugin, LoadtimeInstrumentationPlugin {

private boolean pluginBroken = false;
private boolean introspectorLoaded = false;
private boolean threadGroupContextLoaded = false;

private Field beanInfoCacheField;
private Field declaredMethodCacheField;
private Method putMethod;
private Class<?> threadGroupContextClass;
private Field threadGroupContext_contextsField; /* Map<ThreadGroup,ThreadGroupContext> */
private Method threadGroupContext_removeBeanInfoMethod; /* removeBeanInfo(Class<?> type) */

private void tidySerialization(Class<?> reloadedClass) {
    if (true) return;
    try {
        Class<?> clazz = Class.forName("java.io.ObjectStreamClass$Caches");
        Field localDescsField = clazz.getDeclaredField("localDescs");
        localDescsField.setAccessible(true);
        ConcurrentMap cm = (ConcurrentMap)localDescsField.get(null);
        // TODO [serialization] a bit extreme to wipe out everything
        cm.clear();
        // For some reason clearing the reflectors damages serialization - is it not a true cache?
        //Field reflectorsField = clazz.getDeclaredField("reflectors");
        //reflectorsField.setAccessible(true);
        //cm = (ConcurrentMap)reflectorsField.get(null);
        //cm.clear();
        } catch (ClassNotFoundException e) {
            throw new IllegalStateException(e);
        } catch (NoSuchFieldException e) {
            throw new IllegalStateException(e);
        } catch (IllegalAccessException e) {
            throw new IllegalStateException(e);
        }
    } catch (ClassNotFoundException e) {
        throw new IllegalStateException(e);
    } catch (NoSuchFieldException e) {
        throw new IllegalStateException(e);
    } catch (IllegalAccessException e) {
        throw new IllegalStateException(e);
    }
}
throw new IllegalStateException(e);
} catch (SecurityException e) {
throw new IllegalStateException(e);
} catch (IllegalArgumentException e) {
throw new IllegalStateException(e);
} catch (IllegalAccessException e) {
throw new IllegalStateException(e);
}

private static class Caches {

    /** cache mapping local classes -> descriptors */
    static final ConcurrentMap<WeakClassKey,Reference<?>> localDescs =
        new ConcurrentHashMap<>();
    
    /** cache mapping field group/local desc pairs -> field reflectors */
    static final ConcurrentMap<FieldReflectorKey,Reference<?>> reflectors =
        new ConcurrentHashMap<>();
    
    /** queue for WeakReferences to local classes */
    private static final ReferenceQueue<Class<?>> localDescsQueue =
        new ReferenceQueue<>();
    
    /** queue for WeakReferences to field reflectors keys */
    private static final ReferenceQueue<Class<?>> reflectorsQueue =
        new ReferenceQueue<>();

    }

    }

    @SuppressWarnings({ "restriction", "unchecked" })
    public void reloadEvent(String typename, Class<?> clazz, String encodedTimestamp) {
        if (pluginBroken) {
            return;
        }
        tidySerialization(clazz);
        if (introspectorLoaded) {
            // Clear out the Introspector BeanInfo cache entry that might exist for this class
            boolean beanInfoCacheCleared = false;
            // In Java7 the AppContext stuff is gone, replaced by a ThreadGroupContext.
            // This code grabs the contexts map from the ThreadGroupContext object and clears out the bean info for the
            // reloaded clazz
            if (threadGroupContextLoaded) { // In Java 7
                beanInfoCacheCleared = clearThreadGroupContext(clazz);
            }

            // GRAILS-9505 - had to introduce the flushFromCaches(). The appcontext we seem to be able to
            // access from AppContext.getAppContext() isn't the same one the Introspector will be using
// so we can fail to clean up the cache. Strangely calling getAppContexts() and clearing them
// all (the code commented out below) doesn't fetch all the contexts. I'm sure it is a nuance of
// app context handling but for now the introspector call is sufficient.
// TODO doesn't this just only clear the beaninfocache for the thread the reload event
// is occurring on? which may not be the thread that was actually using the cache.
if (!beanInfoCacheCleared) {
    try {
        if (beanInfoCacheField == null) {
            beanInfoCacheField = Introspector.class.getDeclaredField("BEANINFO_CACHE");
        }
        beanInfoCacheField.setAccessible(true);
        Object key = beanInfoCacheField.get(null);
        Map<Class<?>, BeanInfo> map = (Map<Class<?>, BeanInfo>) sun.awt.AppContext.getAppContext().get(key);
        if (map != null) {
            if (GlobalConfiguration.debugplugins) {
                System.err.println("JVMPlugin: clearing out BeanInfo for " + clazz.getName());
            }
            map.remove(clazz);
        }
    }
    catch (NoSuchFieldException nsfe) {
        // this can happen on Java7 as the field isn't there any more, see the code above.
        System.err.println("Reloading: JVMPlugin: warning: unable to clear BEANINFO_CACHE, cant find field");
    }
    catch (Exception e) {
        e.printStackTrace();
    }
    if (!beanInfoCacheCleared) {
        try {
            if (declaredMethodCacheField == null) {
                declaredMethodCacheField = Introspector.class.getDeclaredField("declaredMethodCache");
            }
            declaredMethodCacheField.setAccessible(true);
            Object theCache = declaredMethodCacheField.get(null);
            if (putMethod == null) {
                putMethod = theCache.getClass().getDeclaredMethod("put", Object.class, Object.class);
            }
            // Clear out the declaredMethodCache that may exist for this class
            try {
                if (declaredMethodCacheField == null) {
                    declaredMethodCacheField = Introspector.class.getDeclaredField("declaredMethodCache");
                }
                declaredMethodCacheField.setAccessible(true);
                Object theCache = declaredMethodCacheField.get(null);
                if (putMethod == null) {
                    putMethod = theCache.getClass().getDeclaredMethod("put", Object.class, Object.class);
                }
            }
        }
    }
}
\begin{verbatim}
    }
    putMethod.setAccessible(true);
    
    if (GlobalConfiguration.debugplugins) {
        System.err.println("JVMPlugin: clearing out declaredMethodCache in Introspector for class "+ clazz.getName());
    }
    putMethod.invoke(theCache, clazz, null);
    } catch (NoSuchFieldException nsfe) {
        pluginBroken = true;
        System.out.println("Reloading: JVMPlugin: warning: unable to clear declaredMethodCache, cant find field (JDK update may fix it)");
    } catch (Exception e) {
        e.printStackTrace();
    }
    }
    
    private boolean clearThreadGroupContext(Class<?> clazz) {
        boolean beanInfoCacheCleared = false;
        try {
            if (threadGroupContextClass == null) {
                threadGroupContextClass = Class.forName("java.beans.ThreadGroupContext", true,
                        Introspector.class.getClassLoader());
            }
            if (threadGroupContextClass != null) {
                if (threadGroupContext_contextsField == null) {
                    threadGroupContext_contextsField = threadGroupContextClass.getDeclaredField("contexts");
                    threadGroupContext_removeBeanInfoMethod = threadGroupContextClass.getDeclaredMethod("removeBeanInfo",
                            Class.class);
                }
                if (threadGroupContext_contextsField != null) {
                    threadGroupContext_contextsField.setAccessible(true);
                    Object threadGroupContext_contextsField_value = threadGroupContext_contextsField.get(null);
                    if (threadGroupContext_contextsField_value == null) {
                        beanInfoCacheCleared = true;
                    } else {
                        if (threadGroupContext_contextsField_value instanceof Map) {
                            // Indicates Java 7 up to rev21
                            Map<?, ?> m = (Map<?, ?>) threadGroupContext_contextsField_value;
                            Collection<?> threadGroupContexts = m.values();
                            for (Object o : threadGroupContexts) {
                                threadGroupContext_removeBeanInfoMethod.setAccessible(true);
                                threadGroupContext_removeBeanInfoMethod.invoke(o, clazz);
                            }
                            beanInfoCacheCleared = true;
                        } else {
                            // At update Java7u21 it changes
                        }
                    }
                }
            }
        }
        
    }
\end{verbatim}
Class weakIdentityMapClazz = threadGroupContext_contextsField.getType();
Field tableField = weakIdentityMapClazz.getDeclaredField("table");
tableField.setAccessible(true);
Reference<?>[] refs = (Reference[])tableField.get(threadGroupContext_contextsField_value);
Field valueField = null;
if (refs!=null) {
    for (int i=0; i<refs.length; i++) {
        Reference<?> r = refs[i];
        Object o = (r==null?null:r.get());
        if (o!=null) {
            if (valueField==null) {
                valueField = r.getClass().getDeclaredField("value");
            }
            valueField.setAccessible(true);
            Object threadGroupContext = valueField.get(r);
            threadGroupContext_removeBeanInfoMethod.setAccessible(true);
            threadGroupContext_removeBeanInfoMethod.invoke(threadGroupContext, clazz);
        }
    }
    beanInfoCacheCleared = true;
}
public boolean accept(String slashedTypeName, ClassLoader classLoader, ProtectionDomain protectionDomain,
byte[] bytes) {
    if (slashedTypeName!=null) {
        if (slashedTypeName.equals("java/beans/Introspector")) {
            introspectorLoaded = true;
        } else if (slashedTypeName.equals("java/beans/ThreadGroupContext")) {
            threadGroupContextLoaded = true;
        }
    }
    return false;
}
public byte[] modify(String slashedClassName, ClassLoader classLoader, byte[] bytes) {
    return null;
}
public boolean shouldRerunStaticInitializer(String typename, Class<?> clazz, String encodedTimestamp) {
    return false;
}

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*/
package org.springsource.loaded.agent;

import java.lang.reflect.Field;
import java.lang.reflect.Method;
import java.securityProtectionDomain;
import java.util.ArrayList;
import java.util.List;
import java.util.Map;
import java.util.logging.Level;
import java.util.logging.Logger;
import org.objectweb.asm.ClassReader;
import org.springsource.loaded.GlobalConfiguration;
import org.springsource.loaded.LoadtimeInstrumentationPlugin;
import org.springsource.loaded.ReloadEventProcessorPlugin;

/**
* First stab at the Spring plugin for Spring-Loaded. Notes...<br>
* <ul>
* <li>On reload, removes the Class entry in
* org/springframework/web/servlet/mvc/annotation/AnnotationMethodHandlerAdapter.methodResolverCache. This enables us to add/changes
* request mappings in controllers.
* <li>That was for Roo, if we create a simple spring template project and run it, this doesn't work. It seems we need to redrive
* detectHandlers() on the DefaultAnnotationHandlerMapping type which will rediscover the URL mappings and add them into the handler
*/
public class SpringPlugin implements LoadtimeInstrumentationPlugin, ReloadEventProcessorPlugin {

private static final String THIS_CLASS = "org/springsource/loaded/agent/SpringPlugin";

private static Logger log = Logger.getLogger(SpringPlugin.class.getName());

private static boolean debug = true;

// TODO [gc] what about GC here - how do we know when they are finished with?
public static List<Object> annotationMethodHandlerAdapterInstances = new ArrayList<Object>();
public static List<Object> defaultAnnotationHandlerMappingInstances = new ArrayList<Object>();
public static List<Object> requestMappingHandlerMappingInstances = new ArrayList<Object>();
public static List<Object> localVariableTableParameterNameDiscovererInstances = null;
public static boolean support305 = true;

private Field classCacheField; // From CachedIntrospectionResults (Spring <= 4.0.x)
private Field strongClassCacheField; // From CachedIntrospectionResults (Spring >= 4.1.0)
private Field softClassCacheField; // From CachedIntrospectionResults (Spring >= 4.1.0)
private Field declaredMethodsCacheField;  // From ReflectionUtils
private Field parameterNamesCacheField; // From LocalVariableTableParameterNameDiscoverer

private boolean cachedIntrospectionResultsClassLoaded = false;
private boolean reflectionUtilsClassLoaded = false;

private Class<?> cachedIntrospectionResultsClass = null;
private Class<?> reflectionUtilsClass = null;

public boolean accept(String slashedTypeName, ClassLoader classLoader, ProtectionDomain protectionDomain, byte[] bytes) {
    // TODO take classloader into account?
    if (slashedTypeName == null) {
        return false;
    }
    if (slashedTypeName.equals("org/springframework/core/LocalVariableTableParameterNameDiscoverer")) {
        return true;
    }
    // Just interested in whether this type got loaded
    if (slashedTypeName.equals("org/springframework/beans/CachedIntrospectionResults")) {
        cachedIntrospectionResultsClassLoaded = true;
    }
    // Just interested in whether this type got loaded
}
if (slashedTypeName.equals("org/springframework/util/ReflectionUtils")) {
    reflectionUtilsClassLoaded = true;
}

return

slashedTypeName.equals("org/springframework/web/servlet/mvc/annotation/AnnotationMethodHandlerAdapter") ||
slashedTypeName.equals("org/springframework/web/servlet/mvc/method/annotation/RequestMappingHandlerMapping") || // 3.1
(support305 && slashedTypeName.equals("org/springframework/web/servlet/mvc/annotation/DefaultAnnotationHandlerMapping"));
}

public byte[] modify(String slashedClassName, ClassLoader classLoader, byte[] bytes) {
    if (GlobalConfiguration.isRuntimeLogging && log.isLoggable(Level.INFO)) {
        log.info("loadtime modifying " + slashedClassName);
    }

    if (slashedClassName.equals("org/springframework/web/servlet/mvc/annotation/AnnotationMethodHandlerAdapter")) {
        return bytesWithInstanceCreationCaptured(bytes, THIS_CLASS, "recordAnnotationMethodHandlerAdapterInstance");
    } else if (slashedClassName.equals("org/springframework/web/servlet/mvc/method/annotation/RequestMappingHandlerMapping")) {
        // springmvc spring 3.1 - doesnt work on 3.1 post M2 snapshots
        return bytesWithInstanceCreationCaptured(bytes, THIS_CLASS, "recordRequestMappingHandlerMappingInstance");
    } else if (slashedClassName.equals("org/springframework/core/LocalVariableTableParameterNameDiscoverer")) {
        return bytesWithInstanceCreationCaptured(bytes, THIS_CLASS, "recordLocalVariableTableParameterNameDiscoverer");
    } else { // "org/springframework/web/servlet/mvc/annotation/DefaultAnnotationHandlerMapping"
        // springmvc spring 3.0
        return bytesWithInstanceCreationCaptured(bytes, THIS_CLASS, "recordDefaultAnnotationHandlerMappingInstance");
    }
}

// called by the modified code
public static void recordAnnotationMethodHandlerAdapterInstance(Object obj) {
    annotationMethodHandlerAdapterInstances.add(obj);
}

public static void recordRequestMappingHandlerMappingInstance(Object obj) {
    requestMappingHandlerMappingInstances.add(obj);
}
public static void recordLocalVariableTableParameterNameDiscoverer(Object obj) {
    if (localVariableTableParameterNameDiscovererInstances == null) {
        localVariableTableParameterNameDiscovererInstances = new ArrayList<Object>();
    }
    localVariableTableParameterNameDiscovererInstances.add(obj);
}

static {
    try {
        String debugString = System.getProperty("springloaded.plugins.spring.debug","false");
        debug = Boolean.valueOf(debugString);
    } catch (Exception e) {
        // likely security exception
    }
}

// called by the modified code
public static void recordDefaultAnnotationHandlerMappingInstance(Object obj) {
    if (debug) {
        System.out.println("Recording new instance of DefaultAnnotationHandlerMappingInstance");
    }
    defaultAnnotationHandlerMappingInstances.add(obj);
}

public void reloadEvent(String typename, Class<?> clazz, String versionsuffix) {
    removeClazzFromMethodResolverCache(clazz);
    removeClazzFromDeclaredMethodsCache(clazz);
    clearCachedIntrospectionResults(clazz);
    reinvokeDetectHandlers(); // Spring 3.0
    reinvokeInitHandlerMethods(); // Spring 3.1
    clearLocalVariableTableParameterNameDiscovererCache(clazz);
}

/**
 * The Spring class LocalVariableTableParameterNameDiscoverer holds a cache of parameter names discovered for
 * members within
 * classes and needs clearing if the class changes.
 * @param clazz the class being reloaded, which may exist in a parameter name discoverer cache
 */
private void clearLocalVariableTableParameterNameDiscovererCache(Class<?> clazz) {
    if (localVariableTableParameterNameDiscovererInstances == null) {
        return;
    }
    if (debug) {
        System.out.println("ParameterNamesCache: Clearing parameter name discoverer caches");
    }
    if (parameterNamesCacheField == null) {
try {
    parameterNamesCacheField = localVariableTableParameterNameDiscovererInstances
        .get(0).getClass().getDeclaredField("parameterNamesCache");
} catch (NoSuchFieldException nsfe) {
    log.log(Level.SEVERE, "Unexpectedly cannot find parameterNamesCache field on
LocalVariableTableParameterNameDiscoverer class");
}
for (Object instance : localVariableTableParameterNameDiscovererInstances) {
    parameterNamesCacheField.setAccessible(true);
    try {
        Map<?, ?> parameterNamesCache = (Map<?, ?>) parameterNamesCacheField.get(instance);
        Object o = parameterNamesCache.remove(clazz);
        if (debug) {
            System.out.println("ParameterNamesCache: Removed "+clazz.getName()+" from cache?"+(o!=null));
        }
    } catch (IllegalAccessException e) {
        log.log(Level.SEVERE, "Unexpected IllegalAccessException trying to access parameterNamesCache field on
LocalVariableTableParameterNameDiscoverer class");
    }
}

private void removeClazzFromMethodResolverCache(Class<?> clazz) {
    for (Object o : annotationMethodHandlerAdapterInstances) {
        try {
            Field f = o.getClass().getDeclaredField("methodResolverCache");
            f.setAccessible(true);
            Map<?, ?> map = (Map<?, ?>) f.get(o);
            Method removeMethod = Map.class.getDeclaredMethod("remove", Object.class);
            Object ret = removeMethod.invoke(map, clazz);
            if (GlobalConfiguration.debugplugins) {
                System.err.println("SpringPlugin: clearing methodResolverCache for "+clazz.getName());
            }
            if (GlobalConfiguration.isRuntimeLogging && log.isLoggable(Level.INFO)) {
                log.info("cleared a cache entry? " + (ret != null));
            }
        } catch (Exception e) {
            log.log(Level.SEVERE, "Unexpected problem accessing methodResolverCache on "+o, e);
        }
    }
}

private void removeClazzFromDeclaredMethodsCache(Class<?> clazz) {
    if (reflectionUtilsClassLoaded) {
        try {
            // TODO not a fan of classloading like this
            if (reflectionUtilsClass == null) {
                ...
// TODO what about two apps using reloading and diff versions of spring?
reflectionUtilsClass = clazz.getClassLoader().loadClass("org.springframework.util.ReflectionUtils");
}

if (declaredMethodsCacheField == null) {
try {
    declaredMethodsCacheField = reflectionUtilsClass.getDeclaredField("declaredMethodsCache");
} catch(NoSuchFieldException e) {

}
}

if (declaredMethodsCacheField != null) {
    declaredMethodsCacheField.setAccessible(true);
    Map m = (Map) declaredMethodsCacheField.get(null);
    Object o = m.remove(clazz);
    if (GlobalConfiguration.debugplugins) {
        System.err.println("SpringPlugin: clearing ReflectionUtils.declaredMethodsCache for "+clazz.getName()+" removed="+o);
    }
}
}

} catch (Exception e) {
if (GlobalConfiguration.debugplugins) {
    e.printStackTrace();
}
}

}

private void clearCachedIntrospectionResults(Class<?> clazz) {
    if (cachedIntrospectionResultsClassLoaded) {
        try {
            // TODO not a fan of classloading like this
            if (cachedIntrospectionResultsClass == null) {
                // TODO what about two apps using reloading and diff versions of spring?
                cachedIntrospectionResultsClass = clazz.getClassLoader().loadClass("org.springframework.beans.CachedIntrospectionResults");
            }
            if (classCacheField == null && strongClassCacheField == null) {
                try {
                    classCacheField = cachedIntrospectionResultsClass.getDeclaredField("classCache");
                } catch(NoSuchFieldException e) {
                    strongClassCacheField = cachedIntrospectionResultsClass.getDeclaredField("strongClassCache");
                    softClassCacheField = cachedIntrospectionResultsClass.getDeclaredField("softClassCache");
                }
            }
            classCacheField = cachedIntrospectionResultsClass.getDeclaredField("classCache");
        } catch(NoSuchFieldException e) {
            strongClassCacheField = cachedIntrospectionResultsClass.getDeclaredField("strongClassCache");
            softClassCacheField = cachedIntrospectionResultsClass.getDeclaredField("softClassCache");
        }
    }
if(classCacheField != null) {
    classCacheField.setAccessible(true);
    Map m = (Map) classCacheField.get(null);
    Object o = m.remove(clazz);
    if (GlobalConfiguration.debugplugins) {
        System.err.println("SpringPlugin: clearing CachedIntrospectionResults.classCache for " + clazz.getName() + " removed=" + o);
    }
}

if(strongClassCacheField != null) {
    strongClassCacheField.setAccessible(true);
    Map m = (Map) strongClassCacheField.get(null);
    Object o = m.remove(clazz);
    if (GlobalConfiguration.debugplugins) {
        System.err.println("SpringPlugin: clearing CachedIntrospectionResults.strongClassCache for " + clazz.getName() + " removed=" + o);
    }
}

if(softClassCacheField != null) {
    softClassCacheField.setAccessible(true);
    Map m = (Map) softClassCacheField.get(null);
    Object o = m.remove(clazz);
    if (GlobalConfiguration.debugplugins) {
        System.err.println("SpringPlugin: clearing CachedIntrospectionResults.softClassCache for " + clazz.getName() + " removed=" + o);
    }
}

} catch (Exception e) {
    if (GlobalConfiguration.debugplugins) {
        e.printStackTrace();
    }
}
}

private void reinvokeDetectHandlers() {
    // want to call detectHandlers on the DefaultAnnotationHandlerMapping type
    // protected void detectHandlers() throws BeansException { is defined on AbstractDetectingUrlHandlerMapping
    for (Object o : defaultAnnotationHandlerMappingInstances) {
        if (debug) {
            System.out.println("Invoking detectHandlers on instance of DefaultAnnotationHandlerMappingInstance");
        }
        try {
            Class<? super clazz_AbstractDetectingUrlHandlerMapping = o.getClass().getSuperclass();
            Method method_dectectHandlers =

            } catch (Exception e) {
                if (GlobalConfiguration.debugplugins) {
                    e.printStackTrace();
                }
            }
        }
    }
}
clazz_AbstractDetectingUrlHandlerMapping.getDeclaredMethod("detectHandlers");
method_detectHandlers.setAccessible(true);
method_detectHandlers.invoke(o);
} catch (Exception e) {
    // if debugging then print it
    if (GlobalConfiguration.debugplugins) {
        e.printStackTrace();
    }
}

@SuppressWarnings("rawtypes")
private void reinvokeInitHandlerMethods() {
    AbstractHandlerMethodMapping) - call protected void initHandlerMethods() on it.

    for (Object o : requestMappingHandlerMappingInstances) {
        if (debug) {
            System.out.println("Invoking initHandlerMethods on instance of RequestMappingHandlerMapping");
        }
        try {
            Class<?> clazz_AbstractHandlerMethodMapping = o.getClass().getSuperclass().getSuperclass();

            // private final Map<T, HandlerMethod> handlerMethods = new LinkedHashMap<T, HandlerMethod>();
            Field field_handlerMethods = clazz_AbstractHandlerMethodMapping.getDeclaredField("handlerMethods");
            field_handlerMethods.setAccessible(true);
            Map m = (Map) field_handlerMethods.get(o);
            m.clear();

            Field field_urlMap = clazz_AbstractHandlerMethodMapping.getDeclaredField("urlMap");
            field_urlMap.setAccessible(true);
            m = (Map) field_urlMap.get(o);
            m.clear();

            Method method_initHandlerMethods =
            clazz_AbstractHandlerMethodMapping.getDeclaredMethod("initHandlerMethods");
            method_initHandlerMethods.setAccessible(true);
            method_initHandlerMethods.invoke(o);
        } catch (NoSuchFieldException nsfe) {
            if (debug) {
                if (nsfe.getMessage().equals("handlerMethods")) {
                    System.out.println("problem resetting request mapping handlers - unable to find field 'handlerMethods' on type 'AbstractHandlerMethodMapping' - you probably are not on Spring 3.1");
                } else {
                    System.out.println("problem resetting request mapping handlers - NoSuchFieldException: "+nsfe.getMessage());
                }
            }
        }
    }
}
catch (Exception e) {
    if (GlobalConfiguration.debugplugins) {
        e.printStackTrace();
    }
}

public boolean shouldRerunStaticInitializer(String typename, Class<?> clazz, String encodedTimestamp) {
    return false;
}

/**
 * Modify the supplied bytes such that constructors are intercepted and will invoke the specified class/method so that
 * instances can be tracked.
 *
 * @return modified bytes for the class
 */
private byte[] bytesWithInstanceCreationCaptured(byte[] bytes, String classToCall, String methodToCall) {
    ClassReader cr = new ClassReader(bytes);
    ClassVisitingConstructorAppender ca = new ClassVisitingConstructorAppender(classToCall, methodToCall);
    cr.accept(ca, 0);
    byte[] newbytes = ca.getBytes();
    return newbytes;
}
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1.1409 sqltool 2.2.4

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If you develop a new program, and you want it to be of the greatest
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free software which everyone can redistribute and change under these terms.

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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.

<one line to give the program's name and a brief idea of what it does.>
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If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) 19yy 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.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `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:

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

    <signature of Ty Coon>, 1 April 1989
    Ty Coon, President of Vice

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1.1429 Streaming API for XML (STAX API 1.0)

1.0.1

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1.1444 sudo 1.8.6p3 :27.el6
1.1444.1 Available under license :

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Russ Allbery
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1.1445 sudo 1.8.19p2

1.1445.1 Available under license:

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Barron, Danny
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Beverly, Jamie
Boardman, Spider
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Bowes, Keith
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Krause, David
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Larsen, Case
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Libby, Kendall
Lobbes, Phillip E.
McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom
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Chornoivan, Yuri
Diguez, Francisco
Ferreira, Rafael
Garca-Fontes, Walter
Gezer, Volkan
Hamasaki, Takeshi
Hamming, Peter
Hansen, Joe
Hantrais, Frédric
Hein, Jochen
Hufthammer, Karl Ove
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Karvonen, Jorma
Kazik, Duan
Kelemen, Gbor
Koir, Klemen
Kozlov, Yuri
Kramer, Jakob
Krznar, Tomislav
Marchal, Frédric
Margevičius, Algimantas
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Nikoli, Miroslav
Nylander, Daniel
Psa, Petr
Qun, Trn Ngc
Regueiro, Leandro
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<one line to give the program's name and a brief idea of what it does.>
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`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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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.

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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
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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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.

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   a) The modified work must itself be a software library.

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

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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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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.

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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.

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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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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.

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b) Give prominent notice with the combined library of the fact
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The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>, public domain.

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@end smallexample

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@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:

1.1455 tcl 8.5.13 :8.el7
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/***/

1.1464 terminal-swing-java2 1.1.11

1.1465 testng 5.14.6

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Open Source Used In PI 3.5.1 3.5.1

1.1469 tiddlywiki 2.8

1.1470 time 1.7-23build1
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This is Debian GNU/Linux's prepackaged version of the FSF's GNU time utility.
`time` is a program that measures many of the CPU resources, such as time and
memory, that other programs use. It was written by David MacKenzie.

This package was put together by Dirk Eddelbuettel <edd@debian.org> from the
previous Debian package time-1.6-2 (from ftp.debian.org) and the GNU sources
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- javaee_web_services_client_1_3.xsd
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Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df055067c18f2ef9 bsd.img

---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

<table>
<thead>
<tr>
<th>Device Boot</th>
<th>Start</th>
<th>End</th>
<th>Blocks</th>
<th>Id</th>
<th>System</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2048</td>
<td>4095</td>
<td>1024</td>
<td>83</td>
<td>Linux</td>
</tr>
</tbody>
</table>

Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
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<tr>
<td>__ts_dev__1</td>
<td>2048</td>
<td>4095</td>
<td>1024</td>
<td>83</td>
<td>Linux</td>
</tr>
</tbody>
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---layout----------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

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<td>2048</td>
<td>4095</td>
<td>1024</td>
<td>83</td>
<td>Linux</td>
</tr>
</tbody>
</table>
Create 2st primary partition
1bebf8724a05de6e462b749da5d023 bsd.img
Set 2nd partition type
2d8e8d514a8a045db233418dd73bfe bsd.img

---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x0000001

Create default BSD
2e1cee259eb89c9341afe0443f196a1 bsd.img

---layout--------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
# start end size fstype [fs size bsize cpg]
c: 4096 20479 16384 unused 0 0
d: 0 16064 16065 unused 0 0

BSD disklabel command (m for help):
Command (m for help):

-------------------
b5c121c2091b2ff26b880551f3ac7112 bsd.img

---layout--------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):
BSD disklabel command (m for help):
4 partitions:
# start end size fstype [fsizembsize cpg]
a: 4096 6144 2049 4.2BSD 0 0 0
c: 4096 20479 16384 unused 0 0
d: 0 16064 16065 unused 0 0

BSD disklabel command (m for help):
Command (m for help):

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
0 unused 5 4.1BSD 9 4.4LFS d boot
1 swap 6 Eighth Edition a unknown e ADOS
2 Version 6 7 4.2BSD b HPFS f HFS
3 Version 7 8 MS-DOS c ISO-9660 10 AdvFS
4 System V

BSD disklabel command (m for help):
size: 8388608, sector size: 512, PT: dos, offset: 446, id=0x8f8378c0
---
#1: 32 7648 0x83
#2: 7680 8704 0xa5
#5: 7936 4864 0x7 (freebsd)
#6: 12544 3584 0x7 (freebsd)
#!/bin/bash
#
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1.1496 util-linux-ng 2.17.2 :12.28.el6

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*/
1.1502 vim 7.4.160 :4.el7

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Voice phone:       (33) 93.65.77.71, Fax: (33) 93 65 77 66, Telex: 97 00 50 F
" Vim syntax file
" Language:Software Distributor product specification file
"(POSIX 1387.2-1995).
" Maintainer:Rex Barzee <rex_barzee@hp.com>
" Last change:25 Apr 2001

if version < 600
    " Remove any old syntax stuff hanging around
    syn clear
elseif exists("b:current_syntax")
    finish
endif
" Product specification files are case sensitive
syn case match
syn keyword psfObject bundle category control_file depot distribution
syn keyword psfObject end file fileset host installed_software media
syn keyword psfObject product root subproduct vendor
syn match psfUnquotString +[^"# ][^#]*+ contained
syn region psfQuotString start=+"+ skip=+\\"+ end=+"+ contained
syn match psfObjTag "\<[-_+A-Z0-9a-z]\+\(\.[-_+A-Z0-9a-z]\+\)*" contained
syn match psfAttAbbrev ",\<\(fa\|fr\|[aclqrv]\)\(<\|>\|<=\|>=\|=\|==\)[^,]\+" contained
syn match psfObjTags "\<[-_+A-Z0-9a-z]\+\(\.[-_+A-Z0-9a-z]\+\)*\(\s\+\<[-_+A-Z0-9a-z]\+\(\.[-_+A-Z0-9az]\+\)*\)*" contained
syn match psfNumber "\<\d\+\>" contained
syn match psfFloat "\<\d\+\>\(\.\<\d\+\>\)*" contained
syn match psfLongDate "\<\d\d\d\d\d\d\d\d\d\d\d\d\.\d\d\>" contained
syn keyword psfState available configured corrupt installed transient contained
syn keyword psfPState applied committed superseded contained
syn keyword psfBoolean false true contained

"Some of the attributes covered by attUnquotString and attQuotString:
" architecture category_tag control_directory copyright
" create_date description directory file_permissions install_source
" install_type location machine_type mod_date number os_name os_release
" os_version pose_as_os_name pose_as_os_release readme revision
" share_link title vendor_tag
syn region psfAttUnquotString matchgroup=psfAttrib start=~^\s*[^# ]\+\s\+[^#" ]~rs=e-1
contains=psfUnquotString,psfComment end=~$~ keepend oneline
syn region psfAttQuotString matchgroup=psfAttrib start=~^\s*[^# ]\+\s\+"~rs=e-1
contains=psfQuotString,psfComment skip=~\\"~ matchgroup=psfQuotString end=~"~ keepend

" These regions are defined in attempt to do syntax checking for some
" of the attributes.
syn region psfAttTag matchgroup=psfAttrib start="^\s*tag\s\+" contains=psfObjTag,psfComment end="$" keepend
oneline
syn region psfAttSpec matchgroup=psfAttrib
start="^\s*\(ancestor\|applied_patches\|applied_to\|contents\|corequisites\|exrequisites\|prerequisites\|software_spec\|
supersedes\|superseded_by\)\s\+" contains=psfObjTag,psfAttAbbrev,psfComment end="$" keepend

Open Source Used In PI 3.5.1 3.5.1

15151


syn region psfAttTags matchgroup=psfAttrib start="\s*all_filesets\s\+" contains=psfObjTags,psfComment end="$" keepend

syn region psfAttNumber matchgroup=psfAttrib
start="\s*\(compressed_size\|instance_id\|media_sequence_number\|sequence_number\|size\)\s\+"
contains=psfNumber,psfComment end="$" keepend oneline

syn region psfAttTime matchgroup=psfAttrib start="\s*\(create_time\|ctime\|mod_time\|mtime\|timestamp\)\s\+"
contains=psfNumber,psfComment end="$" keepend oneline

syn region psfAttFloat matchgroup=psfAttrib start="\s*\(data_model_revision\|layout_version\)\s\+"
contains=psfFloat,psfComment end="$" keepend oneline

syn region psfAttLongDate matchgroup=psfAttrib start="\s*install_date\s\+"
contains=psfLongDate,psfComment end="$" keepend oneline

syn region psfAttState matchgroup=psfAttrib start="\s*\(state\)\s\+"
contains=psfState,psfComment end="$" keepend oneline

syn region psfAttPState matchgroup=psfAttrib start="\s*\(patch_state\)\s\+"
contains=psfPState,psfComment end="$" keepend oneline

syn region psfAttBoolean matchgroup=psfAttrib
start="\s*\(is_kernel\|is_locatable\|is_patch\|is_protected\|is_reboot\|is_reference\|is_secure\|is_sparse\)\s\+"
contains=psfBoolean,psfComment end="$" keepend oneline

syn match  psfComment "#.\$"

" Define the default highlighting.
" For version 5.7 and earlier: only when not done already
" For version 5.8 and later: only when an item doesn't have highlighting yet
if version >= 508 || !exists("did_psf_syntax_inits")
    if version < 508
        let did_psf_syntax_inits = 1
        command -nargs=+ HiLink hi link <args>
    else
        command -nargs=+ HiLink hi def link <args>
    endif

HiLink psfObject Statement
HiLink psfAttrib Type
HiLink psfQuotString String
HiLink psfObjTag Identifier
HiLink psfAttAbbrev PreProc
HiLink psfObjTags Identifier

HiLink psfComment Comment
VIM REFERENCE MANUAL  by Bram Moolenaar

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SUMMARY
*iccf*  *ICCF*
Vim is Charityware. You can use and copy it as much as you like, but you are encouraged to make a donation for needy children in Uganda. Please see |kcc| below or visit the ICCF web site, available at these URLs:

http://iccf-holland.org/
http://www.vim.org/iccf/
http://www.iccf.nl/

You can also sponsor the development of Vim. Vim sponsors can vote for features. See |sponsor|. The money goes to Uganda anyway.

The Open Publication License applies to the Vim documentation, see |manual-copyright|.

=== begin of license ===

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      will be distributed is negotiable. If there has been no negotiation
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      The current maintainer is Bram Moolenaar <Bram@vim.org>. If this
      changes it will be announced in appropriate places (most likely
      vim.sf.net, www.vim.org and/or comp.editors). When it is completely
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      your changes ceases. Once the maintainer has confirmed that he has
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=== end of license ===

Note:

- If you are happy with Vim, please express that by reading the rest of this file and consider helping needy children in Uganda.

- If you want to support further Vim development consider becoming a sponsor. The money goes to Uganda anyway.

- According to Richard Stallman the Vim license is GNU GPL compatible. A few minor changes have been made since he checked it, but that should not make a difference.

- If you link Vim with a library that goes under the GNU GPL, this limits further distribution to the GNU GPL. Also when you didn't actually change anything in Vim.

- Once a change is included that goes under the GNU GPL, this forces all further changes to also be made under the GNU GPL or a compatible license.

- If you distribute a modified version of Vim, you can include your name and contact information with the "--with-modified-by" configure argument or the MODIFIED_BY define.

==============================================================================
Kibaale Children's Centre *kcc* *Kibaale* *charity*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai
District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

*donate*

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:
1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Further more, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:
Kibaale Children's Centre
p.o. box 1658
Masaka, Uganda, East Africa

Sending money:*iccf-donations*

Check the ICCF web site for the latest information! See [iccf] for the URL.

USA: The methods mentioned below can be used.
Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.
For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly.
Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.
Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse. This will allow for tax deduction if you live in Holland.
Postbank, nr. 4548774
IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return. Check the ICCF web site for the latest information:
http://iccf-holland.org/germany.html

World: Use a postal money order. That should be possible from any country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar". Use Euro for the currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number.
Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:
The e-mail address for sending the money to is:
Bram@iccf-holland.org
For amounts above 400 Euro ($500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:
Postbank, account 4548774
Swift code: INGB NL 2A
IBAN: NL95 INGB 0004 5487 74
under the name "stichting ICCF Holland", Lisse
If that doesn't work:
Rabobank Lisse, account 3765.05.117
Swift code: RABO NL 2U
under the name "Bram Moolenaar", Lisse
Otherwise, send a check in euro or US dollars to the address below. Minimal amount: $70 (my bank does not accept smaller amounts for foreign check, sorry).
Address to send checks to:
Bram Moolenaar
Finsterrueilhof 1
8134 Adliswil
Switzerland

This address is expected to be valid for a long time.

```
vim:tw=78:ts=8:ft=help:norl:
```

### 1.1503 vim-minimal 7.4.160 :2.el7

#### 1.1503.1 Available under license:

```
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```

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Voice phone: (33) 93.65.77.71, Fax: (33) 93 65 77 66, Telex: 97 00 50 F

" Vim syntax file
" Language:Software Distributor product specification file
"(POSIX 1387.2-1995).
" Maintainer: Rex Barzee <rex_barzee@hp.com>
" Last change: 25 Apr 2001

if version < 600
  " Remove any old syntax stuff hanging around
  syn clear
else if exists("b:current_syntax")
  finish
endif

" Product specification files are case sensitive
syn case match

syn keyword psfObject bundle category control_file depot distribution
syn keyword psfObject end file filesset host installed_software media
syn keyword psfObject product root subproduct vendor

syn match  psfUnquotString +[^#][^#]*+ contained
syn region  psfQuotString      start=+" skip=+"+ end=+"+ contained

syn match  psfObjTag    "\<[\-_+A-Z0-9a-z]+(\.[\-_+A-Z0-9a-z]+)*\>" contained
syn match  psfAttAbbrev  "\<[\fa|fr|aclqlr]|<\|>=||=|==|\>|\>+|\>\>" contained
syn match  psfObjTags   "\<[\-_+A-Z0-9a-z]+(\.[\-_+A-Z0-9a-z]+)*\s+\<[\-_+A-Z0-9a-z]+(\.[\-_+A-Z0-9a-z]+)*\>\>" contained

syn match  psfNumber     "\<\d+>" contained
syn match  psfFloat      "\<\d+\.\d+>" contained
syn match  psfLongDate   "\<\d+\d+\d+\d+\d+\d+\d+\d+\d+\d+\d+\d+\d+\d+\d+\>" contained

syn keyword psfState       available configured corrupt installed transient contained
syn keyword psfPState      applied committed superseded contained

syn keyword psfBoolean     false true contained

"Some of the attributes covered by attUnquotString and attQuotString:
" architecture category_tag control_directory copyright
" create_date description directory_file_permissions install_source
" install_type location machine_type mod_date number os_name os_release
" os_version pose_as_os_name pose_as_os_release readme revision
" share_link title vendor_tag
syn region psfAttUnquotString matchgroup=psfAttrib start=~^\s[^#]+[^#]+~rs=e-1
contains=psfUnquotString,psfComment end=~\$~ keepend oneline

syn region psfAttQuotString matchgroup=psfAttrib start=~^\s[^#]+[^#]+~rs=e-1
contains=psfQuotString,psfComment skip=~"~ matchgroup=psfQuotString end=~"~ keepend
These regions are defined in attempt to do syntax checking for some of the attributes.

```asm
syn region psfAttTag matchgroup=psfAttrib start="\s*tag\s+" contains=psfObjTag,psfComment end="$" keepend oneline

syn region psfAttSpec matchgroup=psfAttrib start="\s*\(ancestor\|applied_patches\|applied_to\|contents\|corequisites\|exrequisites\|prerequisites\|software_spec\|supersedes\|superseded_by\)\s+" contains=psfObjTag,psfAttAbbrev,psfComment end="$" keepend oneline

syn region psfAttNumber matchgroup=psfAttrib start="\s*\(compressed_size\|instance_id\|media_sequence_number\|sequence_number\|size\)\s+" contains=psfNumber,psfComment end="$" keepend oneline

syn region psfAttTime matchgroup=psfAttrib start="\s*\(create_time\|ctime\|mod_time\|mtime\|timestamp\)\s+" contains=psfNumber,psfComment end="$" keepend oneline

syn region psfAttFloat matchgroup=psfAttrib start="\s*\(data_model_revision\|layout_version\)\s+" contains=psfFloat,psfComment end="$" keepend oneline

syn region psfAttLongDate matchgroup=psfAttrib start="\s*install_date\s+" contains=psfLongDate,psfComment end="$" keepend oneline

syn region psfAttState matchgroup=psfAttrib start="\s*\(state\)\s+" contains=psfState,psfComment end="$" keepend oneline

syn region psfAttPState matchgroup=psfAttrib start="\s*\(patch_state\)\s+" contains=psfPState,psfComment end="$" keepend oneline

syn region psfAttBoolean matchgroup=psfAttrib start="\s*\(is_kernel\|is_locatable\|is_patch\|is_protected\|is_reboot\|is_reference\|is_secure\|is_sparse\)\s+" contains=psfBoolean,psfComment end="$" keepend oneline

syn match psfComment "#.*$"
```

Define the default highlighting.
For version 5.7 and earlier: only when not done already
For version 5.8 and later: only when an item doesn't have highlighting yet
if version >= 508 || !exists("did_psf_syntax_inits")
if version < 508
let did_psf_syntax_inits = 1
command -nargs+= HiLink hi link <args>
else

command -nargs=+ HiLink hi def link <args>
endif

HiLink psfObject  Statement
HiLink psfAttrib  Type
HiLink psfQuotString  String
HiLink psfObjTag  Identifier
HiLink psfAttAbbrev  PreProc
HiLink psfObjTags  Identifier

HiLink psfComment  Comment

delcommand HiLink
endif

" Long descriptions and copyrights confuse the syntax highlighting, so
" force vim to backup at least 100 lines before the top visible line
" looking for a sync location.
syn sync lines=100

let b:current_syntax = "psf"
*uganda.txt*  For Vim version 7.4. Last change: 2013 Jul 06

VIM REFERENCE MANUAL  by Bram Moolenaar

*uganda*  *Uganda*  *copying*  *copyright*  *license*
SUMMARY
*iccf*  *ICCF*
Vim is Charityware. You can use and copy it as much as you like, but you are
couraged to make a donation for needy children in Uganda. Please see |kcc|
below or visit the ICCF web site, available at these URLs:

http://iccf-holland.org/
http://www.vim.org/iccf/
http://www.iccf.nl/

You can also sponsor the development of Vim. Vim sponsors can vote for
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=== end of license ===

Note:

- If you are happy with Vim, please express that by reading the rest of this file and consider helping needy children in Uganda.

- If you want to support further Vim development consider becoming a [sponsor]. The money goes to Uganda anyway.

- According to Richard Stallman the Vim license is GNU GPL compatible. A few minor changes have been made since he checked it, but that should not make a difference.

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- Once a change is included that goes under the GNU GPL, this forces all
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- If you distribute a modified version of Vim, you can include your name and contact information with the "--with-modified-by" configure argument or the MODIFIED_BY define.

==============================================================================

Kibaale Children's Centre\*kcc* *Kibaale* *charity*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.
There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

*donate*

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Further more, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:
Kibaale Children's Centre
p.o. box 1658
Masaka, Uganda, East Africa

Sending money:*iccf-donations*

Check the ICCF web site for the latest information! See [iccf] for the URL.

USA: The methods mentioned below can be used. Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.
For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children’s Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly. Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.

Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353
If you make a donation to Kibaale Children’s Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of “Stichting ICCF Holland” in Lisse. This will allow for tax deduction if you live in Holland.
Postbank, nr. 4548774
IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return. Check the ICCF web site for the latest information:
http://iccf-holland.org/germany.html

World: Use a postal money order. That should be possible from any country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar". Use Euro for the currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number.
Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:
The e-mail address for sending the money to is:
Bram@iccf-holland.org
For amounts above 400 Euro ($500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:
Postbank, account 4548774
Swift code: INGB NL 2A
IBAN: NL95 INGB 0004 5487 74
under the name "stichting ICCF Holland", Lisse
If that doesn't work:
Rabobank Lisse, account 3765.05.117
Swift code: RABO NL 2U
under the name "Bram Moolenaar", Lisse
Otherwise, send a check in euro or US dollars to the address
below. Minimal amount: $70 (my bank does not accept smaller
amounts for foreign check, sorry)

Address to send checks to:
Bram Moolenaar
Finsterruetihof 1
8134 Adliswil
Switzerland

This address is expected to be valid for a long time.

vim:tw=78:ts=8:ft=help:norl:

1.1504 virt-what 1.18 :4.el7

1.1504.1 Available under license :

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1.1512.1 Available under license:

/* <filename>.c
 *
 * $Id$
 *
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 * By Gerald Combs <gerald@wireshark.org>
 * Copyright 1998 Gerald Combs
 *
 * This program is free software; you can redistribute it and/or
Installing Wireshark on FreeBSD/OpenBSD/NetBSD/DragonFly BSD
========================================================================

1. Extra packages required
2. Compiling Wireshark
3. Berkeley Packet Filter (BPF) requirement
4. Running Wireshark as a non-root user

1. Extra packages required
------------------------
Wireshark requires a number of additional programs to function.
Install the latest versions of the following programs before compiling:

  atk
cairo
expat
gettext
glib2
glitz
gtk2 / gtk+2
jpeg
pango
pkgconfig
png
tiff

The easiest way to install these is by using your operating system's
ports or packages system.

2. Compiling Wireshark
------------------------
To compile Wireshark with the default options, run configure, make and make install (you may have to run "autogen.sh" first):

```
./configure
make
make install
```

The configure and make steps can be run as a non-root user and you can run Wireshark from the compilation directory itself. You must run make install as root in order to copy the program to the proper directories.

3. Berkeley Packet Filter (BPF) requirement
-----------------------------
In order to capture packets (with Wireshark/TShark, tcpdump, or any other packet capture program) on a BSD system, your kernel must have the Berkeley Packet Filter mechanism enabled. The default kernel configurations in recent versions of BSD systems have this enabled already. To verify the bpf device is present, look in the /dev directory:

```
ls -l /dev/bpf*
```

You should see one or more bpf devices listed similar to this:

```
crw--------  1 root  wheel    0,  90 Aug 10 21:05 /dev/bpf0
crw--------  1 root  wheel    0,  91 Aug 10 21:05 /dev/bpf1
```

Packet-capturing programs will pick the first bpf device that's not in use. Recent versions of most BSDs will create bpf devices as needed, so you don't have to configure the number of devices that will be available.

4. Running wireshark as a non-root user
-----------------------------
Since the bpf devices are read-only by the owner (root), you normally have to run packet capturing programs such as Wireshark as root. It is safer to run programs as a non-root user if possible. To run Wireshark as a non-root user, you must change the permissions on the bpf device(s).

If you are the only user that needs to use Wireshark, the easiest way is to change the owner of each bpf device to your username. You can also add the read/write ability to the group (typically wheel) and add users that need to use Wireshark to the wheel group. Check your operating system's documentation on how to make permanent these changes as they are often reset upon reboot; if /dev is implemented with devfs, it might be possible to configure devfs to create all bpf devices owned by a particular user and/or group and with particular permissions. In FreeBSD 6.0 and later this can be done by creating an /etc/devfs.rules file with content such as
add path 'bpf*' {mode and permissions}

where "mode and permissions" can include clauses such as

mode {octal permissions}

to set the permissions on the device (e.g., "mode 0660" to set the
permissions to rw-rw-r--),

user {user}

to set the user who owns the device, or

group {group}

to set the group that owns the device and adding a line such as

devfs_system_ruleset=localrules

to /etc/rc.conf. For example, an /etc/devfs.rules file with

[localrules=10]
add path 'bpf*' mode 0660 group wheel

will grant read and write permissions on all BPF devices to all users in
the "wheel" group.

This package was debianized by Frederic Peters <fpeters@debian.org> on
Sun, 13 Sep 1998 23:05:47 +0200

It was downloaded from http://www.wireshark.org/download/src/all-versions/

The Wireshark web site URL is http://www.wireshark.org/

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gtk/win32-file-dlg.h:
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epan/in_cksum.h:
BSD, like in_cksum.c, according to wireshark-dev@, message-id:
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1.1517 wsdl4j 1.6.2

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1.1518 wstx-asl 3.2.7
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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; }


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;
                }
            }
        }
    }
    while (!done2)
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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 */

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;
}

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);
            }
            done1 = true;
        }
    }
    catch (IOException ioe)
    {
        done1 = true;
    }

    try
    {
        while (!done2)
        {
            int off1 = 0;
            int off2 = 0;

            while (off2 < buf2.length)
            {
                int count = stream2.read(buf2, off2, buf2.length - off2);
            }
            done2 = true;
        }
    }
    catch (IOException ioe)
    {
        done2 = true;
    }

    return streams1.equals(streams2);
}
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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************************************************************************

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1.1562 xorg-x11-server 1.19.5 :5.el7

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1.1578 zip4j 1.3.2

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1.1579 zlib 1.2.7

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interface of the 'zlib' general purpose compression library
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