Open Source Used In Prime Infrastructure 3.7

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1.6 Activation 1.1 1.0.2

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-- activemq-web
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2001-12-12

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2001-12-12

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1.19 Aether :: API 1.12

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/*
* Copyright 2001-2004 The Apache Software Foundation.
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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From mikel@ora.com Tue Aug  1 12:13:20 1995
Flags: 10
Return-Path: mikel@ora.com
Received: from ruby.ora.com (ruby.ora.com [198.112.208.25]) by odin.INS.CWRU.Edu with ESMTP
(8.6.12+uwu/CWRU-2.1-ins)
id MAA01565; Tue, 1 Aug 1995 12:13:18 -0400 (from mikel@ora.com for <chet@odin.INS.CWRU.Edu>)
Received: (from fax@localhost) by ruby.ora.com (8.6.12/8.6.11) with UUCP id MAA23251; Tue, 1 Aug 1995
12:07:51 -0400
Received: by los.ora.com (4.1/Spike-2.1)
id AA00672; Tue, 1 Aug 95 08:57:32 EDT
Date: Tue, 1 Aug 95 08:57:32 EDT
From: mikel@ora.com (Michael Loukides)
Message-Id: <9508011257.AA00672@los.ora.com>
Subject: Re: Ksh debugger from Rosenblatt's book [for bash]
To: Chet Ramey <chet@odin.INS.CWRU.Edu>
Cc: cmarie@ora.com, cam@iinet.com.au, brosenblatt@tm.com
In-Reply-To: Chet Ramey <chet@odin.INS.CWRU.Edu>, Mon, 31 Jul 1995 16:22:48 -0400
I've modified a (modified) version of Bill Rosenblatt's ksh debugger to work with bash-2.0. Does ORA have any problem with me distributing it with bash-2.0?

That's great!

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

-------

From 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-2.1-1s)
   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-2.1-1s)
} id NAA20487; Tue, 9 May 1995 13:39:24 -0400 (from chet)
} Date: Tue, 9 May 1995 13:36:54 -0400
} From: Chet Ramey <chet@odin.ins.cwru.edu>
} To: john@armory.com
} Subject: ksh scripts
} Cc: chet@odin.ins.cwru.edu
} Reply-To: chet@po.cwru.edu
} Message-ID: <9505091736.AA20411.SM@odin.INS.CWRU.Edu>
Hi. I'm the maintainer of bash (the GNU `Bourne Again shell') for the FSF.

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

Chet Ramey

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

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

-- End of excerpt from Chet Ramey

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

Flags: 10
Return-Path: friedman@gnu.ai.mit.edu
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 by cli.com (4.1) id AA16031; Thu, 25 May 95 11:18:23 CDT
Message-Id: <9505251618.AA16031@tepui.cli.com>
From: friedman@gnu.ai.mit.edu (Noah Friedman)
To: chet@po.cwru.edu
Subject: Bash scripts
Reply-To: friedman@gnu.ai.mit.edu
In-Reply-To: <chet@odin.ins.cwru.edu> Thu, 25 May 1995 11:19:59 -0400
References: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>
Date: Thu, 25 May 95 11:18:21 CST

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

Sure. I think there's a later copy in
~ftp/friedman/shell-inits/init-4.89.tar.gz. There are also some elisp and
es frobs in that file.
It should serve as a pretty good example of how to get carried away. :-)

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```
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webmaster
(last updated $Date: 2002-12-10 03:15:21 +1100 (Tue, 10 Dec 2002) $)
This distribution includes a binary distribution of Mozilla Rhino 1.6 release 5
plus one patch.

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

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

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

The patch is available here:

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

which is attached to this bug:

https://bugzilla.mozilla.org/show_bug.cgi?id=367627

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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
org.mozilla.javascript.tools.debugger.downloaded.TreeTableModelAdapter.java
Which come from:
http://java.sun.com/products/jfc/tsc/articles/treetable2

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

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

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

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

/**
 * Returns an array of &lt;code&gt;String&lt;/code&gt;s recognized as names by
 * this property source that begin with the supplied prefix. If
 * no property names match, &lt;code&gt;null&lt;/code&gt; will be returned.
 * The comparison is done in a case-independent manner.
 *
 * &lt;p&gt; The default implementation calls
 * &lt;code&gt;getPropertyNames()&lt;/code&gt; and searches the list of names
 * for matches.
 *
 * @return an array of &lt;code&gt;String&lt;/code&gt;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 -= tileGridYOffset;
    if (y < 0) {
        y += 1 - tileHeight; // Force round to -infinity
    }
    return y/tileHeight;
}

/**
 * Converts a pixel's X coordinate into a horizontal tile index.
 * This is a convenience method. No attempt is made to detect
 * out-of-range coordinates.
/**
 * 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,
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 {
        dest.getBounds();
    }

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

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

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

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.
*
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.
*/
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 {
    returndecodeAsRenderedImage(0);
}

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

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The Rhino jar also includes four classes:
org.mozilla.javascript.tools.debugger.downloaded.AbstractCellEditor.java
org.mozilla.javascript.tools.debugger.downloaded.JTreeTable.java
org.mozilla.javascript.tools.debugger.downloaded.TreeTableModel.java
org.mozilla.javascript.tools.debugger.downloaded.TreeTableModelAdapter.java
Which come from:
http://java.sun.com/products/jfc/tsc/articles/treetable2

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<th>File</th>
<th>Original filename</th>
</tr>
</thead>
<tbody>
<tr>
<td>zoom-in.png</td>
<td>viewmag+.png</td>
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<tr>
<td>zoom-out.png</td>
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org.mozilla.javascript.tools.debugger.downloaded.TreeTableModel.java
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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 from 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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---

<!-- $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="$isc.copyright.leader"/>
    <xsl:value-of select="normalize-space(substring-before($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:variable name="isc.copyright.text">
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  </xsl:variable>
</xsl:stylesheet>
PERFORMANCE OF THIS SOFTWARE.

</xsl:variable>

<xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
      <xsl:for-each select="/refentry/docinfo/copyright | /book/bookinfo/copyright">
        <xsl:text>Copyright (C) </xsl:text>
        <xsl:call-template name="copyright.years">
          <xsl:with-param name="years" select="year"/>
        </xsl:call-template>
        <xsl:text> </xsl:text>
        <xsl:value-of select="holder"/>
        <xsl:text>&#10;</xsl:text>
      </xsl:for-each>
      <xsl:value-of select="$isc.copyright.text"/>
    </xsl:with-param>
  </xsl:call-template>
</xsl:variable>

</xsl:stylesheet>

<!--
- Local variables:
- mode: sgml
- End:
-->
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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 
3a9f4f5d3b691e79e6d6f38d796d5f98d787c5cf2bb5b6. 

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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    <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>
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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 form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5c7ff2bb5b6.

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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 3a0982da308228d796df35f98d787c5cfff2bb5b6.

  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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<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:variable name="isc.copyright.text">
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  </xsl:variable>
</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 3a0982da308228d796df35f98d787c5c0f2bb5b6.

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 from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5c9f2bb5b6.

   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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<xsl:template name="isc.copyright.format">
  <xsl:param name="text"/>

</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 3a0982da308228d796df35f98d787c5c9f2bb5b6.

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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1.117 bind-utils 9.9.4 :73.el7_6

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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 3a0982da308228d796df35f98d787c5c5f2bb5b6.

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

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* atf-c/ui.c: The format_paragraph and format_text functions were
derived form the ones in the Monotone project, revision
  3a0982da308228d796df35f98d787c5c9f2bb5b6.

  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.

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* 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.

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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.

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* atf-c/ui.c: The format_paragraph and format_text functions were derived form the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

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

@appendixsubsec Preamble

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

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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.

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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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@c ispell-local-pdict: "ispell-dict"
@c End:
(This file is under construction.)*- text -*.

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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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1.120 Bootstrap 3.0

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

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1.161 catalina-optional 5.5.23

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1.167 cisco-xalan-2.7.2b 2.7.2b

1.168 classmate 1.3.4

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1.169 CodeMirror_1-0_gwt_2-0-3.jar 1.0

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1.170 ColorPicker-GWT-2.1 2.1

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1.2

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1.172 com.cisco.xmp.osgi.esapi-full 1.4

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1.176 com.cisco.xmp.osgi.saxon 9.1.0.1

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1.177 com.cisco.xmp.osgi.slf4j-api

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1.178 com.cisco.xmp.osgi.slf4j-api-jdk15

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1.179 com.cisco.xmp.osgi.slf4j-log4j12

1.5.8.PATCHED
1.180 com.cisco.xmp.osgi.struts-core 1.3.10

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1.279 commons-digester 1.8

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 */
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package org.apache.commons.digester;

import java.util.List;

/**
 * <p><code>AbstractRuleImpl</code> provides basic services for <code>Rules</code> implementations.
 * Extending this class should make it easier to create a <code>Rules</code> implementation.</p>
 *
 * <p><code>AbstractRuleImpl</code> manages the <code>Digester</code> and <code>namespaceUri</code> properties.
 * If the subclass overrides {@link #registerRule} (rather than {@link #add}),
 * then the <code>Digester</code> and <code>namespaceURI</code> of the <code>Rule</code>
 * will be set correctly before it is passed to <code>registerRule</code>.
 * The subclass can then perform whatever it needs to do to register the rule.</p>
 *
 * @since 1.5
 */

abstract public class AbstractRulesImpl implements Rules {

    // ------------------------------- Fields

    /** Digester using this <code>Rules</code> implementation */
    private Digester digester;
    /** Namespace uri to assoicate with subsequent <code>Rule</code>'s */
    private String namespaceURI;

    // ------------------------------- Properties

    /**
     * Return the Digester instance with which this Rules instance is
* associated.
*/
public Digester getDigester() {
    return digester;
}

/**
 * Set the Digester instance with which this Rules instance is associated.
 *
 * @param digester The newly associated Digester instance
 */
public void setDigester(Digester digester) {
    this.digester = digester;
}

/**
 * Return the namespace URI that will be applied to all subsequently
 * added <code>Rule</code> objects.
 */
public String getNamespaceURI() {
    return namespaceURI;
}

/**
 * Set the namespace URI that will be applied to all subsequently
 * added <code>Rule</code> objects.
 *
 * @param namespaceURI Namespace URI that must match on all
 * subsequently added rules, or <code>null</code> for matching
 * regardless of the current namespace URI
 */
public void setNamespaceURI(String namespaceURI) {
    this.namespaceURI = namespaceURI;
}

// ------------------------------- Public Methods

/**
 * Registers a new Rule instance matching the specified pattern.
 * This implementation sets the <code>Digester</code> and the
 * <code>namespaceURI</code> on the <code>Rule</code> before calling [ @link #registerRule ].
 *
 * @param pattern Nesting pattern to be matched for this Rule
 * @param rule Rule instance to be registered
 */
public void add(String pattern, Rule rule) {
    // set up rule
    if (this.digester != null) {
        ...
rule.setDigester(this.digester);
}

if (this.namespaceURI != null) {
    rule.setNamespaceURI(this.namespaceURI);
}

registerRule(pattern, rule);

/**
 * Register rule at given pattern.
 * The <code>Digester</code> and <code>namespaceURI</code> properties of the given <code>Rule</code>
 * can be assumed to have been set properly before this method is called.
 *
 * @param pattern Nesting pattern to be matched for this <code>Rule</code>
 * @param rule Rule instance to be registered
 */
abstract protected void registerRule(String pattern, Rule rule);

/**
 * Clear all existing Rule instance registrations.
 */
abstract public void clear();

/**
 * Return a List of all registered Rule instances that match the specified
 * nesting pattern, or a zero-length List if there are no matches. If more
 * than one Rule instance matches, they <strong>must</strong> be returned
 * in the order originally registered through the <code>add()</code>
 * method.
 *
 * @param pattern Nesting pattern to be matched
 */
@deprecated Call match(namespaceURI, pattern) instead.
public List match(String pattern) {
    return match(namespaceURI, pattern);
}

/**
 * Return a List of all registered Rule instances that match the specified
 * nesting pattern, or a zero-length List if there are no matches. If more
 * than one Rule instance matches, they <strong>must</strong> be returned
 * in the order originally registered through the <code>add()</code>
abstract public List match(String namespaceURI, String pattern);

/**
 * Return a List of all registered Rule instances, or a zero-length List
 * if there are no registered Rule instances. If more than one Rule
 * instance has been registered, they <strong>must</strong> be returned
 * in the order originally registered through the <code>add()</code>
 * method.
 */
abstract public List rules();
public class SimpleRegexMatcher extends RegexMatcher {

    // ------------------------------- Fields

    /** Default log (class wide) */
    private static final Log baseLog = LogFactory.getLog(SimpleRegexMatcher.class);

    /** Custom log (can be set per object) */
    private Log log = baseLog;

    // ------------------------------- Properties

    /**
     * Gets the Log implementation.
     */
    public Log getLog() {
        return log;
    }

    /**
     * Sets the current Log implementation used by this class.
     */
    public void setLog(Log log) {
        this.log = log;
    }

    // ------------------------------- Public Methods

    /**
     * Matches using simple regex algorithm.
     */
    public boolean match(String basePattern, String regexPattern) {
        // check for nulls
        if (basePattern == null || regexPattern == null) {
            return false;
        }

        // ...
return match(basePattern, regexPattern, 0, 0);
}

// --------------------------------------------------------- Implementations Methods

/**
 * Implementation of regex matching algorithm.
 * This calls itself recursively.
 */
private boolean match(String basePattern, String regexPattern, int baseAt, int regexAt) {
    if (log.isTraceEnabled()) {
        log.trace("Base: " + basePattern);
        log.trace("Regex: " + regexPattern);
        log.trace("Base" + baseAt);
        log.trace("Regex" + regexAt);
    }

    // check bounds
    if (regexAt >= regexPattern.length()) {
        // maybe we've got a match
        if (baseAt >= basePattern.length()) {
            // ok!
            return true;
        }
        // run out early
        return false;
    } else {
        if (baseAt >= basePattern.length()) {
            // run out early
            return false;
        }
    }

    // ok both within bounds
    char regexCurrent = regexPattern.charAt(regexAt);
    switch (regexCurrent) {
        case "+":
            // this is the tricky case
            // check for terminal
            if (++regexAt >= regexPattern.length()) {
                // this matches anything let - so return true
                return true;
            }
            // go through every subsequent apperance of the next character
            // and so if the rest of the regex matches
            char nextRegex = regexPattern.charAt(regexAt);
            if (log.isTraceEnabled()) {
                log.trace("Next: " + nextRegex);
            }
            return match(basePattern, nextRegex, baseAt, regexAt);
        default:
            return false;
    }
}

// Implementations Methods

** implementations

private boolean match(String basePattern, String regexPattern, int baseAt, int regexAt) {
    if (log.isTraceEnabled()) {
        log.trace("Base: " + basePattern);
        log.trace("Regex: " + regexPattern);
        log.trace("Base" + baseAt);
        log.trace("Regex" + regexAt);
    }

    // check bounds
    if (regexAt >= regexPattern.length()) {
        // maybe we've got a match
        if (baseAt >= basePattern.length()) {
            // ok!
            return true;
        }
        // run out early
        return false;
    } else {
        if (baseAt >= basePattern.length()) {
            // run out early
            return false;
        }
    }

    // ok both within bounds
    char regexCurrent = regexPattern.charAt(regexAt);
    switch (regexCurrent) {
        case "+":
            // this is the tricky case
            // check for terminal
            if (++regexAt >= regexPattern.length()) {
                // this matches anything let - so return true
                return true;
            }
            // go through every subsequent apperance of the next character
            // and so if the rest of the regex matches
            char nextRegex = regexPattern.charAt(regexAt);
            if (log.isTraceEnabled()) {
                log.trace("Next: " + nextRegex);
            }
            return match(basePattern, nextRegex, baseAt, regexAt);
        default:
            return false;
    }
}
log.trace("Searching for next "+nextRegex+" char");
}
int nextMatch = basePattern.indexOf(nextRegex, baseAt);
while (nextMatch != -1) {
    if (log.isTraceEnabled()) {
        log.trace("Trying "+nextRegex+" match@"+nextMatch);
    }
    if (match(basePattern, regexPattern, nextMatch, regexAt)) {
        return true;
    }
    nextMatch = basePattern.indexOf(nextRegex, nextMatch + 1);
}
log.trace("No matches found.");
return false;

case ":
    // this matches anything
    return match(basePattern, regexPattern, ++baseAt, ++regexAt);

default:
    if (log.isTraceEnabled()) {
        log.trace("Camparing "+regexCurrent+" to "+basePattern.charAt(baseAt));
    }
    if (regexCurrent == basePattern.charAt(baseAt)) {
        // still got more to go
        return match(basePattern, regexPattern, ++baseAt, ++regexAt);
    }
    return false;
}
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1.293 commons-jelly-tags-dynabean-1.0 1.0

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1.296 commons-jelly-tags-interaction-1.0 1.1

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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 &amp;#169; "+ 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.
* 
* @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 = -563657022231596674L;

/**
 * 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(getClass().getName());
    string = string.append(' ');
    string = string.append(getName());
    if (!(getActions().equals("")))
    {
        string = string.append(' ');
        string = string.append(getActions());
    }
    return string.toString();
}
```java
    } // 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 <em>not</em> the same as the class
    */
```
public interface Permission
{
    /**
     * This method tests whether or not a specified \texttt{Permission} (passed as an \texttt{Object}) is the same as this permission.
     *
     * @param perm The permission to check for equality
     *
     * @return \texttt{true} if the specified permission is the same as this one, \texttt{false} otherwise
     */
    boolean equals (Object perm);

    /**
     * This method returns this \texttt{Permission} as a \texttt{String}.
     *
     * @return A \texttt{String} representing this permission.
     */
    String toString();
}

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David Megginson, sax@megginson.com
1998-05-11

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

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* m4/ax_func_which_gethostbyname_r.m4

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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 contributions have also been made by many others.
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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 (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 (martintauermann@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.ama.oz.au) 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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@c Set file name and title for man page.
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@end ignore
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@c ispell-local-pdict: "ispell-dict"
@c End:

@c man end
/* Definitions for BSD assembler syntax for Intel 386
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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 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)))

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

#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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Version 3.1, 31 March 2009

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#!/usr/bin/python
#
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# 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 + '
')
        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',
        'ltlsugar.m4',
        'ltversion.m4',
        'lt--obsolete.m4',
        'missing',
        'mkdep',
        'mkninstalldirs',
        'move-if-change',
        'shlibpath.m4',
        'symlink-tree',
        'y1wrap',

        # 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'
'|[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 + '(?:\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 ')

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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() + '
'

    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))
            elif self.use_quilt:
                subprocess.call(['quilt', 'add', pathname])
            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 + '
')
        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.oHelp()
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):
        # 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',
    ])

    self.skip_dirs |= 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',
    ])

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    self.skip_dirs |= set([
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    ])

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    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 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 ('Software Foundation, Inc.', canon_fsf)

        self.add_external_author ('ARM')
        self.add_external_author ('AdaCore')
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('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()
@node Library Copying
@appendixsec GNU LESSER GENERAL PUBLIC LICENSE

@cindex LGPL, Lesser General Public License
@center Version 2.1, February 1999

@display
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[This is the first released version of the Lesser GPL. It also counts
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@end display
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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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any free program. We wish to make sure that a company cannot
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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
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entire combination fits its criteria of freedom. The Lesser General
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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.

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

@enumerate 0
@item
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You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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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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@item
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@item
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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:

@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
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@item
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@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

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@end enumerate

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

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

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You should have received a copy of the GNU Lesser General Public License along with this library; 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.

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:

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

That's all there is to it!

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1.328 cracklib 2.9.0 :11.el7
1.328.1 Available under license :

---------
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

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

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.=20

-- 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 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
> =20
> 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=20
> GPL-2 ... it was a modified artistic license ... i didn't 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 isn't the place of =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...
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 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...
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,
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++
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

-------------
BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
-------------

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

Open Source Used In Prime Infrastructure 3.7
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? :-)

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

> 
> --------- Forwarded message ---------
> From: Neulinger, Nathan <nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license
> To: alecm@crypto.dircon.co.uk
> 
> 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? :-)

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
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Lines: 21

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> From: Neulinger, Nathan <nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
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> 
> 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? :-)
GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

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

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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.

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.

^L

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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
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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.

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
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 where to find the accompanying uncombined form of the same work.

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^L

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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!
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.
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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.

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
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.

=2Dmike

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
=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 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license

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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.

Dmike

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 you 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 you all come up with is fine by me.

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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
>
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library to dictate to application writes what license they should be using.
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-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
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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 Fry sing er <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
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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
BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.

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 scanrv2.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 -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, 01 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 HcOcX-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: <1b1b3fd80710010908k111dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
    <EC90713277D2BE41B7110CC742E35CEF44F38@UMR-CMAIL1.umr.edu>
    <1b1b3fd80710010908k111dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
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
Lines: 21

>
> ---------- Forwarded message ----------
> From: Neulinger, Nathan <nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license
> To: alecm@crypto.dircon.co.uk
> >
> > 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

1.329 cracklib-dicts 2.9.0 :11.el7

1.329.1 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>,

Open Source Used In Prime Infrastructure 3.7
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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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.

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

Attachments: Message as HTML
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=2Dmike

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-- Nathan
=20
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Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
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> [mailto:cracklib-devel-bounces@li...] On Behalf Of
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> Sent: Monday, October 01, 2007 8:15 PM
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--mike

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Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
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I like GPL, I use it when I can, but I don't think that it's the correct
license in this situation.

Devin
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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:
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My apologies for not chiming in in anything resembling a reasonable
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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
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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
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-mike

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

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

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

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 ESMT 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 ESMT 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: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

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

[Cracklib-devel] cracklib license
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
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-- 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 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
> >=20
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Re: [Cracklib-devel] cracklib license
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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.

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 library to dictact to application writes what license they should be using.

thus LGPL-2.1 enters to fill this void.
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From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46

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> [mailto:cracklib-devel-bounces@li...] On Behalf Of Mike Frysingern
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
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Open Source Used In Prime Infrastructure 3.7

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From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
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BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
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         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-ipv5.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 l91Gxtp020623
         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] (helo=[192.168.1.3])
         by rutherford.zen.co.uk with esmtp (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>
<EC90713277D2BE41B7110CCD74E235CE4F44F38@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

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

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

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

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.

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.

--L
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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TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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.

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.

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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
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1.335 curl 7.29.0 :51.el7

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zlib  http://www.gzip.org/zlib/zlib_license.html

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MIT Kerberos  http://web.mit.edu/kerberos/www/dist/

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fbopenssl

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[2] = http://www.fsf.org/licenses/gpl-faq.html#GPLIncompatibleLibs details on how to write such an exception to the GPL

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 */

package org.apache.cxf.io;

import java.io.IOException;
import java.io.InputStream;

/**<p>
 * Marker interface for OutputStreams that can directly support
 * copying from an input stream. OutputStreams that maintain their
 * own byte buffer or similar may be able to optimize the copy
 * instead of using the read/write into a temporary buffer that
 * the normal IOUtils.copy method requires.
 */
public interface CopyingOutputStream {

    int copyFrom(InputStream in) throws IOException;

}

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1.359 dejavu-sans-fonts 2.33 :6.el7

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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.

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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.

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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
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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.)

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
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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.

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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* 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 3a0982da308228d796df35f98d787c5eff2bb5b6.

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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1.371 dhcp-common 4.2.5 :68.el7_5.1

1.372 dhcp-libs 4.2.5 :68.el7_5.1

1.372.1 Available under license:

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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($rest, '&#9;&#32;', '')">
      <xsl:call-template name="isc.copyright.format">
        <xsl:with-param name="text" select="$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
3a0982da308228d796d13f5f98d787c5c52bb5b6.

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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    Ruby's code - http://intertwingly.net/blog/2006/12/05/HOWTO-Embed-MathML-and-SVG-into-HTML4 - currently
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1.381 dos2unix 6.0.3 :7.el7

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1.385 e2fsprogs 1.42.9 :13.el7

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Theodore Ts'o
23-June-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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#
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#
# 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
@@ -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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1.386 e2fsprogs-libs 1.42.9 :13.el7
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Theodore Ts'o  
23-June-2007

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Gadi Oxman, August 1995

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<signature of Ty Coon>, 1 April 1989
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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): $(OBJ)
(cd pic; ld -Bshareable -o $(LIB) $(LDFLAGS) $(OBJ))
$(MV) pic/$(LIB) .
$(RM) -f ../$(LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'`/$(LIB) $(LIB))

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

install-strip: install

install-shlibs-strip: install-shlibs

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

clean::
$(RM) -rf pic
$(RM) -f $(LIB)
$(RM) -f ../$(LIB)
/*

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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 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:

http://sourceforge.net/projects/e2fsprogs

Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing 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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<li><u>Entire Agreement</u>. This Agreement constitutes the entire agreement between the parties.</li>
</ol>
</blockquote>

<hr width="95%"

<h3 align="center"><a name="Exhibit1">EXHIBIT 1</a><br>_UNICODE, INC. LICENSE AGREEMENT - DATA FILES AND SOFTWARE</h3>
<p>Unicode Data Files include all data files under the directories</p>
<a href="http://www.unicode.org/Public/">http://www.unicode.org/Public/</a>, <a href="http://www.unicode.org/reports/">http://www.unicode.org/reports/</a>, and <a title="http://www.unicode.org/cldr/data/" onClick="return top.js.OpenExtLink(window,event,this)"
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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.

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

etc/future-bug
- doesn't need a humorless disclaimer, because Karl Fogel says we can consider it part of Emacs, and he has a blanker disclaimer for Emacs changes. (email to rgm "[Emacs-commit] emacs/etc future-bug", 2007028)

etc/letter.pbm,letter.xpm
- trivial, no notice needed.
etc/FTP, ORDERS
- trivial (at time of writing), no license needed

etc/GNU, INTERVIEW, LINUX-GNU, MOTIVATION, SERVICE, THE-GNU-PROJECT, WHY-FREE
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."

etc/HELLO
standard notices. Just a note that although the file itself is not really copyrightable, in the wider context of it being part of Emacs (and written by those with assignments), a standard notice is fine.

etc/MAILINGLISTS
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, QI-b5.tit, QI.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/ffe5c55845a640a9>
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 ctags 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/a21b6c21be12a98d>

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
- See http://lists.gnu.org/archive/html/emacs-devel/2010-03/msg00410.html 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
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.

e/c/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.

e tc/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-nnonnull.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-cnvt.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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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
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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. 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

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.

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

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
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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 -231844736 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
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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
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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?
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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?
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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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@end smallexample

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<h3 align="center"><a name="Exhibit1">EXHIBIT 1</a><br>UNICODE, INC. LICENSE AGREEMENT - DATA FILES AND SOFTWARE</h3>

<blockquote>
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;; copyright.el --- update the copyright notice in current buffer


;; Author: Daniel Pfeiffer <occitan@esperanto.org>
;; Keywords: maint, tools

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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:

(defun copyright-nil
  "Update the copyright notice in current buffer."
  :group 'tools)

(custom-set-variable '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"))

(defcustom 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")
  ;;;;###autoload(put 'copyright-at-end-flag 'safe-local-variable 'booleanp)

(defcustom copyright-regexp
  "ء\[\(\|@copyright{}\|\[Cc\]opyright\s *:?\s *\(?:(C)\)?\)
ء\[Cc\]opyright\s *:?\s *\)
ء *\[\(0-9\)\*\(\[-0-9, ';/*%#
\|\s<\|\s>\)*[0-9]\)"
  "What your copyright notice looks like.
  The second \( \) construct must match the years."
  :group 'copyright
  :type 'regexp)

(defcustom copyright-names-regexp ""
  "Regexp matching the names which correspond to the user.
  Only copyright lines where the name matches this regex 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 regex 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)

(defcustom copyright-years-regexp
  "ء\(\s *\)ء\[1-9\]\*\(\[-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?
  (defcustom 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."
(defcustom 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)))

;;; 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-start-point ()
"Return point-min or point-max, depending on `copyright-at-end-flag'."
(if copyright-at-end-flag
 (point-max)
 (point-min)))

(defun copyright-offset-too-large-p ()
"Return non-nil if point is too far from the edge of the buffer."
(when copyright-limit
   ;; return non-nil if point is too far from the edge of the buffer.
   (if (point) (- (point) copyright-limit))))

(defun copyright-re-search-forward (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 regexp bound noerror count)
 (re-search-forward-regexp regexp bound noerror count)))

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

(defvar copyright-current-gpl-version "3"
"String representing the current version of the GPL or nil.")

(defvar copyright-year-ranges 'safe-local-variable 'booleanp)

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

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

(defvar 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.")

(defvar copyright-year-ranges 'safe-local-variable 'booleanp)

(defvar copyright-update t
"The function `copyright-update' sets this to nil after updating a buffer.")
(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
      "\(\[ \t\n\)\(.*\):" copyright-names-regexp \("\)\)
    )
    (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")))
  ;; 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-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.
    (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 "*Pnd")
(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. :
           (copyright-re-search
            "the Free Software Foundation\[,.;\n\(\([0-9]\+)\(?: of the License\)?, or\[ 
\].*either version \\
\(\([0-9]\)\+\)\(\?: of the License\)?, 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)))))))
        (set (make-local-variable 'copyright-update) nil)))
      ;; If a write-file-hook returns non-nil, the file is presumed to be written.
      nil))

;; 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)))
    (copyright-update s 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)))))))
(set (make-local-variable 'copyright-update) nil)))

;; 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 reformattting 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"))

;;###autoload
(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.
;;###autoload
(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: 
MFilenames 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)
#@39 String representing the current year.
(defvar copyright-current-year (format-time-string "%Y") (#$ . 2898))
(defalias 'copyright-limit #[nil "\205\203\f`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\f$\207\306\n\f$\207"
[copyright-at-end-flag regexp bound noerror count 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 "\203d\207e\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`dZW\207`e\\V\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 #[nil "~\210\300 b\210\301\302\303\217\207" [copyright-start-point err (bytecode "\304\305\306\307\260\n\205\203`\nZ\202`\n\\\310#\207" [copyright-regexp copyright-names-regexp
copyright-limit copyright-at-end-flag copyright-re-search "\\(" "\\)\\([ ]*\n\\)?.*\\(?:" "\\)" t] 6) ((error (message
"Can't update copyright: %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 #[nil "\212g\305=\2053\306u\210\307\310w\210l\2053\2053\311
\312\216\306y\210\313!\205'\314\225b*\2053\n\315\313!*)\205H\306y\210\316!\210\316\317\320\n\"!\210\202\20
7" [comment-start-skip save-match-data-internal copyright-years-regexp regexp inhibit-changing-match-data 44 1 "
" nil match-data ((byte-code "\301\302\"\207" [save-match-data-internal set-match-data evaporate] 3)) looking-at 0 t
re-search-forward format "\\(%s\\)"] 4 (#$ . 4487)])
(defalias 'copyright-update-year #[(replace noquery) "\305\225b\210\306
\210\307\310!\311\225\312Z\311\225{\313\314O\230?\205\247\204>\315
\316\216\317p!\210\212\320\2035\321\322Q\2029\323\324Q!+\205\247\203J\325\326\211\314\311%\207\212\327\
314x)\330!\330`\f\\`{!Z\331\246\305=\203\332`\f\333#f\334=\204x\332`\f\313#f\334=\203\335\f!\210\202\241\212\
336\337\340 \326#\203\217\341\305!\202\220\342)c\210\332`\f\343#f\344=\203\241\344c\210\f\314Oc)\207"
[copyright-current-year noquery #1=#:wconfig replace size 1 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 " "? " "Add " " to copyright? " replace-match t "0-9" string-to-number 100 + -1 45 delete-char re-searchbackward "[0-9]\\( *, *\\)[0-9]" 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) "\204\205\207\n?\206\n\306=\205\212\214\307
\203~\310\f\"\210\311 b\210
\203~\312\313\205@\203<`Z\202@`\\\314#\203~\315\316\317!!\315
!W\203~\204v\320 \321\216\317\225b\210\322 \323\216\324p!\210\325\326\327\330\317!
#!,\203~\331

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Use `copyright-year-ranges` (which see) to independently replace consecutive years with a range.

`copyright-fix-years` command uses heuristic: year >= 50 means 19xx, < 50 means 20xx.

If `copyright-year-ranges` is non-nil, also

This command is a skeleton command (see `skeleton-insert`).

Normally the skeleton text is inserted at point, with nothing "inside".

If there is a highlighted region, the skeleton text is wrapped around the region text. A prefix argument ARG says to wrap the skeleton around the next ARG words.

A prefix argument of 0 says to wrap around zero words—that is, nothing.

This is a way of overriding the use of a highlighted region.

This command inserts a copyright notice at the current point.

If FIX is non-nil, run `copyright-fix-years' instead.

This command updates copyright notice for all files in DIRECTORY matching MATCH. If FIX is non-nil, run `copyright-fix-years' instead.

This command updates copyright notice for all files in DIRECTORY matching MATCH.
1.398 Encryption 1.0

1.399 ethtool 4.8 :9.el7

1.399.1 Available under license :

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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".)

"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.

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.

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 where to find the accompanying uncombined form of the same work.

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system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

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

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END OF TERMS AND CONDITIONS

Appendix: 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.

<one line to give the library'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.

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.

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

That's all there is to it!

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Version 3, 29 June 2007

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To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.
Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

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.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

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

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

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.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

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An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.


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.

The "Corresponding Source" for a work in object code form means all
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 System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

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You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".

c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display
Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

a) 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.

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.

c) 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.

d) 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.

e) 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.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

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/**
 * 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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* m4/ax_func_which_gethostbyname_r.m4

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Jan 21, 2002

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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 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 (brazille@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(agy@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.)
@end ignore
@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
@c man begin SEEALSO
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@c man begin COPYRIGHT
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@end ignore
@c man end
@end ignore
@c man begin DESCRIPTION
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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

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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.

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.

1. You may copy and distribute verbatim copies of the Library's
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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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themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
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entire whole, and thus to each and every part regardless of who wrote
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Thus, it is not the intent of this section to claim rights or contest
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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.

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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.

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 where to find the accompanying uncombined form of the same work.

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@appendixsubsec Preamble

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This license, the Lesser General Public License, applies to some specially designated software---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.

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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.
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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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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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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.)

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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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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
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modification of the work for the customer's own use and reverse
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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
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specified in Subsection 6a, above, for a charge no more
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specified materials from the same place.

e) Verify that the user has already received a copy of these
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For an executable, the required form of the "work that uses the
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which the executable runs, unless that component itself accompanies
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Ty Coon, President of Vice

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-------             ---------
mach_override       lib/interception/mach_override
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   (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 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)))

#if defined 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
@setfilename gfdl
@settitle GNU Free Documentation License
@c man begin SEEALSO
@uref{http://fsf.org/} gpl(7), fsf-funding(7).
@c man end
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
@ifset gfdlhtml
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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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@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

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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@mitxami.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
type allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)
#!/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
# 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',
    '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',
    'ltunet.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('	')

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

    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]+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 ('\(\[Cc\]opyright\|\[Cc\]opyrights+\(\[Cc\]\)\)\|\[Cc\]opyright+s+%s\|\[Cc\]opyright\+\s+\|\[Cc\]opyright\+©\|\[Cc\]opyright\+@copyright{ }\|\@set+s+copyright\[w-\]')

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

    # 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)

    # 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 = []
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 ('\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[0] == '-' 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',

    # 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',
        ])

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

        self.skip_extensions |= set([
            # Automatically-generated.
            '.pot',
            ])

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

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

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

generic.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')
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 ('gnatools')
        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',
    'libdecmumber',
    'libgcc',
    'libgfortran',
    'libgomp',
    'libitm',
    'libmudflap',
    'libobjc',
    'libstdc++-v3',
]

GCCCmdLine().main()

<?xml version="1.0" encoding="UTF-8" standalone="no"?>
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Version 3.1, 31 March 2009

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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 &copy; " + tags[i].text() + "; " + tags[i].text() + "&amp;nbsp;&lt;i&gt;&amp;nbsp;&lt;/i&gt;&lt;/dt&gt;");
        }
    }
    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)
 * @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.
 *
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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1.427 gcc-c++ 4.8.5 :36.el7_6.2
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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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/* 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
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@end enumerate

@end enumerate

@end enumerate

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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}

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.

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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:

@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

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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 Petersen (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 Jansen (jansen@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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#!/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 + '
')
        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',
            'lt sóc.4',
            '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('	')
    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]\[s+\]]\[s+\]'

        # 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(r'
            # 1: 'Copyright (C)', etc.
            \[[Cc]opyright\]
            \[[Cc]opyright\s+\[/Cc\/\]?
            \[[Cc]opyright\s+%s\]
            \[[Cc]opyright\s+\[Cc\]\]
            \[[Cc]opyright\s+\[Cc\]\]
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            \[@set\s+\]Copyright\]
            \[@set\s+\]Copyright\]
            \[@set\s+\]Copyright\]
            \[@set\]Copyright\]
            \[@set\]Copyright\]
            \[@set\]Copyright\]')

            # 2: the years. Include the whitespace in the year, so that
            # we can remove any excess.
            \s*?.\+ ranges +\思'?
            \[value\{(\[\j\[\}\]}s*)'

            # 3: 'by', if used
            \(by\)\思'?

            # 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\思? + name + ')\思*)'?

            # 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
        elif self.other_copyright_re.search (line):
            self.errors.report (pathname,
                                'unrecognised copyright: %s'
                                % line.strip())
            lines.append (line)
        line = next_line

        # Check for copyright lines that might have slipped by.
        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 % (what, help)))
    sys.stdout.write ('Directories:
    %s
' % 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
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 ([
            # 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)
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('The Free Software Foundation, Inc.', 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',
    'libdeciumber',
    'libgcc',
    'libgfortran',
    'libgomp',
    'libiberty',
    'libmudflap',
    'libobjc',
    'libstdc++-v3',
]

GCCCmdLine().main()

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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.
@item
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.

@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.)
@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.

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.

@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
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.

@item
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:

@enumerate a
@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.

@item
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.
@end enumerate

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the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.

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and the section as a whole is intended to apply in other circumstances.

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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
@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.

@smallexample
@var{one line to give the library's name and an idea of what it does.}
Copyright (C) @var{year} @var{name of author}

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.

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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:

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

@end smallexample

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Version 2.1, February 1999

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as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

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can use it too, but we suggest you first think carefully about whether
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below.

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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 "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.

^L

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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.

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. 

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:

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.

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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 &copy; " + 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.
 *<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 = -563657022231596674L;

/**
 * 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
public abstract boolean implies(Permission perm);

public abstract boolean equals(Object obj);

public abstract int hashCode();

public final String getName()
{
    return name;
}

public abstract String getActions();

public abstract PermissionCollection getCollection();

/**
 * 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);

public abstract int hashCode();

/**
 * 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>.
 */

public abstract PermissionCollection getCollection();
* @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());
    string = string.append(' ');
    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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      (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.

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

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

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

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

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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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components (compiler, kernel, and so on) of the operating system on
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@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}
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@end smallexample

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

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under certain conditions; type @samp{show c} for details.
@end smallexample
The hypothetical commands @samp{show w} and @samp{show c} should show
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use an ``about box''.
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@c man end
#! /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
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"""copyright.py
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

Open Source Used In Prime Infrastructure 3.7

3686


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.STDOUT)
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 algorithm 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"
        "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 = (
    "gdb/doc/gdb.texinfo",
    "gdb/doc/refcard.tex",
    "gdb/gdbarch.sh",
)

# 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/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/armcpro.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",
# Not a single file in sim/ppc/ appears to be copyright FSF :-(.
"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/decode_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",
"sim/ppc/sim-endian-n.h", "sim/ppc/filter_filename.c",
"sim/ppc/decode_fields.h", "sim/ppc/hw_memory.c",
"sim/ppc/misc.c", "sim/ppc/double.c", "sim/ppc/psim.h",
"sim/ppc/hw_trace.c", "sim/ppc/emul_netbsd.h", "sim/ppc/psim.c",
"sim/ppc/ppc-instructions", "sim/ppc/tree.h", "sim/ppc/README",
"sim/ppc/gen-icache.h", "sim/ppc/gen-model.h", "sim/ppc/ld-cache.h",
"sim/ppc/mon.c", "sim/ppc/corefile.h", "sim/ppc/vm.c",
"sim/ppc/INSTALL", "sim/ppc/gen-model.c", "sim/ppc/hw_cpu.c",
"sim/ppc/corefile.c", "sim/ppc/hw_opic.c", "sim/ppc/gen-itable.c",
"sim/ppc/events.h", "sim/ppc/os_emul.c", "sim/ppc/emul_generic.c",
"sim/ppc/main.c", "sim/ppc/hw_com.c", "sim/ppc/gen-semantics.c",
"sim/ppc/emul_bugapi.c", "sim/ppc/device.c", "sim/ppc/emul_generic.h",
"sim/ppc/tree.c", "sim/ppc/mon.h", "sim/ppc/interrupts.h",
"sim/ppc/cap.c", "sim/ppc/cpu.c", "sim/ppc/hw_phb.h",
"sim/ppc/device_table.c", "sim/ppc/lf.c", "sim/ppc/lf.c",
"sim/ppc/dc-stupid", "sim/ppc/hw_pal.c", "sim/ppc/ppc-spr-table",
"sim/ppc/emul_unix.h", "sim/ppc/words.h", "sim/ppc/basics.h"
"sim/ppc/hw_htab.c", "sim/ppc/lf.h", "sim/ppc/ld-decode.c",
"sim/ppc/sim-endian.c", "sim/ppc/gen-itable.c",
"sim/ppc/idecode_expression.h", "sim/ppc/table.h", "sim/ppc/dgen.c",
"sim/ppc/events.c", "sim/ppc/gen-idecode.h", "sim/ppc/emul_netbsd.c",
"sim/ppc/igen.c", "sim/ppc/vm_n.h", "sim/ppc/vm.h",
"sim/ppc/hw_iobus.c", "sim/ppc/inline.h",
"sim/testsuite/sim/bfin/s21.s", "sim/testsuite/sim/mips/mips32-dsp2.s",
)

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 "static void show_copying_command (char *, int);"
    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);"
    print "];
}  

NR == 1./*[ ]*15\. Disclaimer of Warranty[ ]*$/
if ($0 ~ /|/)
{
    printf " printf_filtered ("\n\n\n);\n";
}
else if ($0 !~ /[*] [ ]*15\. Disclaimer of Warranty[ ]*$/
{
    printf " printf_filtered ("=";
    for (i = 1; i < NF; i++)
    printf "%s\n", $i;
    printf "%s\n\n%", $NF;
    }
}  

/*[ ]*15\. Disclaimer of Warranty[ ]*$/
print "]";
print "";
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 (";
    for (i = 1; i < NF; i++)
        printf "\", $i;
    printf "\n";
}
 END{
print "]";
print "\n";
print "void"
print "\_initialize_copying (void)";
print "\n";
print "\" add_cmd (\"copying\", no_set_class, show_copying_command,\";
print "\_\"(\"Conditions for redistributing copies of GDB\",\");";
print "\" add_cmd (\"warranty\", no_set_class, show_warranty_command,\";
print "\_\"Various kinds of warranty you do not have\",\");";
print "\" &showlist);";
print "\" add_cmd (\"warranty\", no_set_class, show_warranty_command,\";
print "\_\"Various kinds of warranty you do not have\",\");";
print "\" &showlist);";
print "\n";
print "\/* For old-timers, allow \"info copying\", etc. */\";
print "\" add_info (\"copying\", show_copying_command,\";
print "\_\"(\"Conditions for redistributing copies of GDB\",\");";
print "\" add_info (\"warranty\", show_warranty_command,\";
print "\_\"Various kinds of warranty you do not have\",\");";
print "]\";
}

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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 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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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:

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.

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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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@end enumerate

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@end appendixsubsec How to Apply These Terms to Your New Libraries

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@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
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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.

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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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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.

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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
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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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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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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.

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1.429 gdbm 1.10 :8.el7
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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
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5. A program that contains no derivative of any portion of the
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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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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
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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
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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
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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1.438 glibc-common 2.17 :260.el7_6.5

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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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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
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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necessary. Here is a sample; alter the names:

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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

That's all there is to it!
commit ef7344f09c5ce00eb519ed14598b2a8e39c68387
Author: Joseph Myers <joseph@codesourcery.com>
Date:   Sun Dec 22 14:49:48 2013 +0000

Flatten sysdeps/unix/bsd/bsd4.4 into sysdeps/unix/bsd.

As discussed in
<https://sourceware.org/ml/libc-alpha/2012-04/msg00840.html> and
<https://sourceware.org/ml/libc-alpha/2012-04/msg00989.html>, it seems 
appropriate to flatten sysdeps/unix/bsd/bsd4.4 into sysdeps/unix/bsd.

The bulk of the patch is just moving files. The only other changes 
are: update paths in sysdeps/mach/hurd/Implies and 
sysdeps/unix/sysv/linux/wait3.c; merge the two syscalls.list files, 
with the removal of syscalls that were in 
sysdeps/unix/bsd/syscalls.list but overridden in the bsd4.4 directory 
by .c files there.

Tested x86_64. The installed shared libraries are identical before 
and after the patch except for libc.so where the move of wait3.c 
(included by sysdeps/unix/sysv/linux/wait3.c) affects debug info, but 
the disassembly is unchanged.

* sysdeps/mach/hurd/Implies: Change unix/bsd/bsd4.4 to unix/bsd.
* sysdeps/unix/bsd/syscalls.list (chflags): Add entry from
sysdeps/unix/bsd/bsd4.4/syscalls.list.
(fchflags): Likewise.
(revoke): Likewise.
(setlogin): Likewise.
(sigaltstack): Likewise.
(wait4): Likewise.
(sigblock): Remove.
(sigsetmask): Likewise.
(wait3): Likewise.
(waitpid): Likewise.
* sysdeps/unix/bsd/bsd4.4/syscalls.list: Remove file.
* sysdeps/unix/bsd/bsd4.4/Makefile: Move to ...
* sysdeps/unix/bsd/Makefile: ... here.
* sysdeps/unix/bsd4.4/Versions: Move to ...
* sysdeps/unix/bsd/Versions: ... here.
* sysdeps/unix/bsd/bsd4.4/bits/sockaddr.h: Move to ...
* sysdeps/unix/bsd/bits/sockaddr.h: ... here.
* sysdeps/unix/bsd4.4/cmsg_nxthdr.c: Move to ...
* sysdeps/unix/bsd/cmsg_nxthdr.c: ... here.
* sysdeps/unix/bsd/bsd4.4/sigblock.c: Move to ...
* sysdeps/unix/bsd/sigblock.c: ... here.
* sysdeps/unix/bsd/bsd4.4/sigsetmask.c: Move to ...
* sysdeps/unix/bsd/sigsetmask.c: ... here.
* sysdeps/unix/bsd/bsd4.4/sigvec.c: Move to ...
* sysdeps/unix/bsd/sigvec.c: ... here.
* sysdeps/unix/bsd/bsd4.4/tcdrain.c: Move to ...
* sysdeps/unix/bsd/tcdrain.c: ... here.
* sysdeps/unix/bsd/bsd4.4/tcgetattr.c: Move to ...
* sysdeps/unix/bsd/tcgetattr.c: ... here.
* sysdeps/unix/bsd/bsd4.4/tcsetattr.c: Move to ...
* sysdeps/unix/bsd/tcsetattr.c: ... here.
* sysdeps/unix/bsd/bsd4.4/wait.c: Move to ...
* sysdeps/unix/bsd/wait.c: ... here.
* sysdeps/unix/bsd/bsd4.4/wait3.c: Move to ...
* sysdeps/unix/bsd/wait3.c: ... here.
* sysdeps/unix/bsd/bsd4.4/waitpid.c: Move to ...
* sysdeps/unix/bsd/waitpid.c: ... here.

diff --git a/sysdeps/mach/hurd/Implies b/sysdeps/mach/hurd/Implies
index b6063463ce343f3b7..d2d5234e1fd1522 100644
--- a/sysdeps/mach/hurd/Implies
+++ b/sysdeps/mach/hurd/Implies
@@ -2,4 +2,4 @@
 # Hurd-based GNU systems.

gnu
# The Hurd provides a rough superset of the functionality of 4.4 BSD.
-unix/bsd/bsd4.4
+unix/bsd
diff --git a/sysdeps/unix/bsd4.4/Makefile b/sysdeps/unix/bsd/Makefile
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/Makefile
to sysdeps/unix/bsd/Makefile
diff --git a/sysdeps/unix/bsd4.4/Versions b/sysdeps/unix/bsd/Versions
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/Versions
to sysdeps/unix/bsd/Versions
diff --git a/sysdeps/unix/bsd/bsd4.4/bits/sockaddr.h b/sysdeps/unix/bsd/bits/sockaddr.h
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/bits/sockaddr.h
to sysdeps/unix/bsd/bits/sockaddr.h
diff --git a/sysdeps/unix/bsd/bsd4.4/syscalls.list b/sysdeps/unix/bsd4.4/syscalls.list
deleted file mode 100644
index a4d354685424ac61..0000000000000000
--- a/sysdeps/unix/bsd/bsd4.4/syscalls.list
+++ /dev/null
@@ -1,8 +0,0 @@
-# File nameCallerSyscall name# argsStrong nameWeak names
-
-chflags-chflags2chflags
-fchflags-fchflags2fchflags
-revoke-revoke1revoke
-setlogin-setlogin2setlogin
-sigaltstack-sigaltstack2__sigaltstacksigaltstack
-wait4-wait44__wait4wait4

diff --git a/sysdeps/unix/bsd/bsd4.4/cmsg_nxthdr.c b/sysdeps/unix/bsd/cmgs_nxthdr.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/cmsg_nxthdr.c
to sysdeps/unix/bsd/cmgs_nxthdr.c
diff --git a/sysdeps/unix/bsd/bsd4.4/sigblock.c b/sysdeps/unix/bsd/sigblock.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/sigblock.c
to sysdeps/unix/bsd/sigblock.c
diff --git a/sysdeps/unix/bsd/bsd4.4/sigsetmask.c b/sysdeps/unix/bsd/sigsetmask.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/sigsetmask.c
to sysdeps/unix/bsd/sigsetmask.c
diff --git a/sysdeps/unix/bsd/bsd4.4/sigvec.c b/sysdeps/unix/bsd/sigvec.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/sigvec.c
to sysdeps/unix/bsd/sigvec.c
diff --git a/sysdeps/unix/bsd/syscalls.list b/sysdeps/unix/bsd/syscalls.list
index e84819dc1f19d148..9f48a144d75f342 100644
--- a/sysdeps/unix/bsd/syscalls.list
+++ b/sysdeps/unix/bsd/syscalls.list

<table>
<thead>
<tr>
<th>Method</th>
<th>Caller</th>
<th>Syscall name</th>
<th># args</th>
<th>Strong name</th>
<th>Weak names</th>
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</tr>
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<td><code>wait4</code></td>
<td>4</td>
<td><code>wait4</code></td>
<td></td>
</tr>
</tbody>
</table>

---

Open Source Used In Prime Infrastructure 3.7
+++ b/sysdeps/unix/sysv/linux/wait3.c
@@ -1 +1 @@
-#include <sysdeps/unix/bsd/bsd4.4/wait3.c>
+#include <sysdeps/unix/bsd/wait3.c>
@c The GNU Free Documentation License.
@center Version 1.3, 3 November 2008

@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

display
@uref{http://fsf.org/}

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item
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That's all there is to it!
commit ef7344f09c5ce00eb519ed14598b2a8e39c68387
Author: Joseph Myers <joseph@codesourcery.com>
Date: Sun Dec 22 14:49:48 2013 +0000
Flatten sysdeps/unix/bsd/bsd4.4 into sysdeps/unix/bsd.

As discussed in <https://sourceware.org/ml/libc-alpha/2012-04/msg00840.html> and <https://sourceware.org/ml/libc-alpha/2012-04/msg00989.html>, it seems appropriate to flatten sysdeps/unix/bsd/bsd4.4 into sysdeps/unix/bsd.

The bulk of the patch is just moving files. The only other changes are: update paths in sysdeps/mach/hurd/Implies and sysdeps/unix/sysv/linux/wait3.c; merge the two syscalls.list files, with the removal of syscalls that were in sysdeps/unix/bsd/syscalls.list but overridden in the bsd4.4 directory by .c files there.

Tested x86_64. The installed shared libraries are identical before and after the patch except for libc.so where the move of wait3.c (included by sysdeps/unix/sysv/linux/wait3.c) affects debug info, but the disassembly is unchanged.

* sysdeps/mach/hurd/Implies: Change unix/bsd/bsd4.4 to unix/bsd.
* sysdeps/unix/bsd/syscalls.list (chflags): Add entry from sysdeps/unix/bsd/bsd4.4/syscalls.list.
* (fchflags): Likewise.
* (revoke): Likewise.
* (setlogin): Likewise.
* (sigaltstack): Likewise.
* (wait4): Likewise.
* (sigblock): Remove.
* (sigsetmask): Likewise.
* (wait3): Likewise.
* (waitpid): Likewise.
* sysdeps/unix/bsd/bsd4.4/syscalls.list: Remove file.
* sysdeps/unix/bsd/bsd4.4/Makefile: Move to ...
* sysdeps/unix/bsd/Makefile: ... here.
* sysdeps/unix/bsd/bsd4.4/Versions: Move to ...
* sysdeps/unix/bsd/Versions: ... here.
* sysdeps/unix/bsd/bsd4.4/bits/sockaddr.h: Move to ...
* sysdeps/unix/bsd/bits/sockaddr.h: ... here.
* sysdeps/unix/bsd/bsd4.4/cmsg_nxthdr.c: Move to ...
* sysdeps/unix/bsd/cmsg_nxthdr.c: ... here.
* sysdeps/unix/bsd/bsd4.4/sigblock.c: Move to ...
* sysdeps/unix/bsd/sigblock.c: ... here.
* sysdeps/unix/bsd/bsd4.4/sigsetmask.c: Move to ...
* sysdeps/unix/bsd/sigsetmask.c: ... here.
* sysdeps/unix/bsd/bsd4.4/sigvec.c: Move to ...
* sysdeps/unix/bsd/sigvec.c: ... here.
* sysdeps/unix/bsd/bsd4.4/tcdrain.c: Move to ...
* sysdeps/unix/bsd/tcdrain.c: ... here.
* sysdeps/unix/bsd/bsd4.4/tcgetattr.c: Move to ...
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* sysdeps/unix/bsd/bsd4.4/tcsetattr.c: Move to ...
* sysdeps/unix/bsd/tcsetattr.c: ... here.
* sysdeps/unix/bsd/bsd4.4/wait.c: Move to ...
* sysdeps/unix/bsd/wait.c: ... here.
* sysdeps/unix/bsd/bsd4.4/wait3.c: Move to ...
* sysdeps/unix/bsd/wait3.c: ... here.
* sysdeps/unix/bsd/bsd4.4/waitpid.c: Move to ...
* sysdeps/unix/bsd/waitpid.c: ... here.

diff --git a/sysdeps/mach/hurd/Implies b/sysdeps/mach/hurd/Implies
index b6063463ce34f3b7..d2d5234c1fdf1522 100644
--- a/sysdeps/mach/hurd/Implies
+++ b/sysdeps/mach/hurd/Implies
@@ -2,4 +2,4 @@
# Hurd-based GNU systems.
 gnu
 # The Hurd provides a rough superset of the functionality of 4.4 BSD.
-unix/bsd/bsd4.4
+unix/bsd
diff --git a/sysdeps/unix/bsd/bsd4.4/Makefile b/sysdeps/unix/bsd/Makefile
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/Makefile
rename to sysdeps/unix/bsd/Makefile
diff --git a/sysdeps/unix/bsd/bsd4.4/Versions b/sysdeps/unix/bsd/Versions
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/Versions
rename to sysdeps/unix/bsd/Versions
diff --git a/sysdeps/unix/bsd/bsd4.4/bits/sockaddr.h b/sysdeps/unix/bsd/bits/sockaddr.h
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/bits/sockaddr.h
rename to sysdeps/unix/bsd/bits/sockaddr.h
diff --git a/sysdeps/unix/bsd/bsd4.4/syscalls.list b/sysdeps/unix/bsd4.4/syscalls.list
deleted file mode 100644
index a4d354685424ac61..0000000000000000
--- a/sysdeps/unix/bsd/bsd4.4/syscalls.list
+++ /dev/null
@@ -1,8 +0,0 @@
-# File nameCallerSyscall name# argsStrong nameWeak names
-
-chflags-chflags2chflags
-fchflags-fchflags2fchflags
-revoke-revoke1revoke
-setlogin-setlogin2setlogin
-sigaltstack-sigaltstack2__sigaltstacksigaltstack
rename from sysdeps/unix/bsd/bsd4.4/tcgetattr.c
rename to sysdeps/unix/bsd/tcgetattr.c
diff --git a/sysdeps/unix/bsd/bsd4.4/tcgetattr.c b/sysdeps/unix/bsd/tcgetattr.c
  similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/tcgetattr.c
rename to sysdeps/unix/bsd/tcgetattr.c
diff --git a/sysdeps/unix/bsd/bsd4.4/wait.c b/sysdeps/unix/bsd/wait.c
  similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/wait.c
rename to sysdeps/unix/bsd/wait.c
diff --git a/sysdeps/unix/bsd/bsd4.4/wait3.c b/sysdeps/unix/bsd/wait3.c
  similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/wait3.c
rename to sysdeps/unix/bsd/wait3.c
diff --git a/sysdeps/unix/bsd/bsd4.4/waitpid.c b/sysdeps/unix/bsd/waitpid.c
  similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/waitpid.c
rename to sysdeps/unix/bsd/waitpid.c
diff --git a/sysdeps/unix/sysv/linux/wait3.c b/sysdeps/unix/sysv/linux/wait3.c
  index 0b3bdee771782b7b..2ff027f0e1d83eb2 100644
  --- a/sysdeps/unix/sysv/linux/wait3.c
  +++ b/sysdeps/unix/sysv/linux/wait3.c
@ -1 +1 @@
-#include <sysdeps/unix/bsd/bsd4.4/wait3.c>
+#include <sysdeps/unix/bsd/wait3.c>
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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

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

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@enumerate
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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.)

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@enumerate a
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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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That's all there is to it!

1.440 glibc-headers 2.17 :260.el7_6.5
1.440.1 Available under license :

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Flatten sysdeps/unix/bsd/bsd4.4 into sysdeps/unix/bsd.

As discussed in <https://sourceware.org/ml/libc-alpha/2012-04/msg00840.html> and <https://sourceware.org/ml/libc-alpha/2012-04/msg00989.html>, it seems appropriate to flatten sysdeps/unix/bsd/bsd4.4 into sysdeps/unix/bsd.

The bulk of the patch is just moving files. The only other changes are: update paths in sysdeps/mach/hurd/Implies and sysdeps/unix/sysv/linux/wait3.c; merge the two syscalls.list files, with the removal of syscalls that were in sysdeps/unix/bsd/syscalls.list but overridden in the bsd4.4 directory by .c files there.

Tested x86_64. The installed shared libraries are identical before and after the patch except for libc.so where the move of wait3.c (included by sysdeps/unix/sysv/linux/wait3.c) affects debug info, but the disassembly is unchanged.

* sysdeps/mach/hurd/Implies: Change unix/bsd/bsd4.4 to unix/bsd.
* sysdeps/unix/bsd/syscalls.list (chflags): Add entry from sysdeps/unix/bsd/bsd4.4/syscalls.list.
  (fchflags): Likewise.
  (revoke): Likewise.
  (setlogin): Likewise.
  (sigaltstack): Likewise.
  (wait4): Likewise.
  (sigblock): Remove.
  (sigsetmask): Likewise.
  (wait3): Likewise.
  (waitpid): Likewise.
* sysdeps/unix/bsd/bsd4.4/syscalls.list: Remove file.
* sysdeps/unix/bsd/bsd4.4/Makefile: Move to ...
* sysdeps/unix/bsd/Makefile: ... here.
* sysdeps/unix/bsd/bsd4.4/Versions: Move to ...
* sysdeps/unix/bsd/Version: ... here.
* sysdeps/unix/bsd/bsd4.4/bits/sockaddr.h: Move to ...
* sysdeps/unix/bsd/bits/sockaddr.h: ... here.
* sysdeps/unix/bsd/bsd4.4/cmsg_nxthdr.c: Move to ...
* sysdeps/unix/bsd/cmsg_nxthdr.c: ... here.
* sysdeps/unix/bsd/bsd4.4/sigblock.c: Move to ...
* sysdeps/unix/bsd/sigblock.c: ... here.
* sysdeps/unix/bsd/bsd4.4/sigsetmask.c: Move to ...
* sysdeps/unix/bsd/sigsetmask.c: ... here.
* sysdeps/unix/bsd/bsd4.4/sigvec.c: Move to ...
* sysdeps/unix/bsd/sigvec.c: ... here.
* sysdeps/unix/bsd/bsd4.4/tcdrain.c: Move to ...
* sysdeps/unix/bsd/tcdrain.c: ... here.
* sysdeps/unix/bsd/bsd4.4/tcgetattr.c: Move to ...
* sysdeps/unix/bsd/tcgetattr.c: ... here.
* sysdeps/unix/bsd/bsd4.4/tcsetattr.c: Move to ...
* sysdeps/unix/bsd/tcsetattr.c: ... here.
* sysdeps/unix/bsd/bsd4.4/wait.c: Move to ...
* sysdeps/unix/bsd/wait.c: ... here.
* sysdeps/unix/bsd/bsd4.4/wait3.c: Move to ...
* sysdeps/unix/bsd/wait3.c: ... here.
* sysdeps/unix/bsd/bsd4.4/waitpid.c: Move to ...
* sysdeps/unix/bsd/waitpid.c: ... here.

diff --git a/sysdeps/mach/hurd/Implies b/sysdeps/mach/hurd/Implies
index b6063463ce34f3b7..d2d5234c1fd1522 100644
--- a/sysdeps/mach/hurd/Implies
+++ b/sysdeps/mach/hurd/Implies
@@ -2,4 +2,4 @@
# Hurd-based GNU systems.
gnu
# The Hurd provides a rough superset of the functionality of 4.4 BSD.
-unix/bsd/bsd4.4
+unix/bsd

diff --git a/sysdeps/unix/bsd/bsd4.4/Makefile b/sysdeps/unix/bsd/Makefile
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/Makefile
rename to sysdeps/unix/bsd/Makefile
diff --git a/sysdeps/unix/bsd/bsd4.4/Versions b/sysdeps/unix/bsd/Versions
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/Versions
rename to sysdeps/unix/bsd/Versions
diff --git a/sysdeps/unix/bsd/bsd4.4/bits/sockaddr.h b/sysdeps/unix/bsd/bits/sockaddr.h
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/bits/sockaddr.h
rename to sysdeps/unix/bsd/bits/sockaddr.h
diff --git a/sysdeps/unix/bsd/bsd4.4/syscalls.list b/sysdeps/unix/bsd/bsd4.4/syscalls.list
deleted file mode 100644
index a4d354685424ac61..0000000000000000
--- a/sysdeps/unix/bsd/bsd4.4/syscalls.list
+++ /dev/null
@@ -1,8 +0,0 @@
-# File nameCallerSyscall name# argsStrong nameWeak names
-
-chflags-chflags2chflags
rename from sysdeps/unix/bsd/bsd4.4/tcgetattr.c
rename to sysdeps/unix/bsd/tcgetattr.c
diff --git a/sysdeps/unix/bsd/bsd4.4/tcgetattr.c b/sysdeps/unix/bsd/tcgetattr.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/tcgetattr.c
rename to sysdeps/unix/bsd/tcgetattr.c
diff --git a/sysdeps/unix/bsd/bsd4.4/tcgetattr.c b/sysdeps/unix/bsd/tcgetattr.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/tcgetattr.c
rename to sysdeps/unix/bsd/tcgetattr.c
diff --git a/sysdeps/unix/bsd/bsd4.4/tcgetattr.c b/sysdeps/unix/bsd/tcgetattr.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/tcgetattr.c
rename to sysdeps/unix/bsd/tcgetattr.c
diff --git a/sysdeps/unix/bsd/bsd4.4/wait.c b/sysdeps/unix/bsd/wait.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/wait.c
rename to sysdeps/unix/bsd/wait.c
diff --git a/sysdeps/unix/bsd/bsd4.4/wait3.c b/sysdeps/unix/bsd/wait3.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/wait3.c
rename to sysdeps/unix/bsd/wait3.c
diff --git a/sysdeps/unix/bsd/bsd4.4/wait3.c b/sysdeps/unix/bsd/wait3.c
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/wait3.c
rename to sysdeps/unix/bsd/wait3.c
diff --git a/sysdeps/unix/sysv/linux/wait3.c b/sysdeps/unix/sysv/linux/wait3.c
index 0b3bdee771782b7b..2ff027f0e1d83eb2 100644
--- a/sysdeps/unix/sysv/linux/wait3.c
+++ b/sysdeps/unix/sysv/linux/wait3.c
@@ -1 +1 @@
#include <sysdeps/unix/bsd4.4/wait3.c>
+#include <sysdeps/unix/bsd/wait3.c>

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@enumerate
@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.)

@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.

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.

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

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

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

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

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

@item
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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@end enumerate

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@subheading END OF TERMS AND CONDITIONS

@page
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@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
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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, 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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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.

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.

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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.

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.

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1.444 gnutls 3.3.29 :9.el7_6

1.445 gobject-introspection 1.56.1 :1.el7

1.445.1 Available under 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.

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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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1.450 gridx 1.1

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Source Files
------------

. 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

src/libs/libxutil/DviChar.c
src/libs/libxutil/XFontName.c

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 under the filenames `hyphen.<language>', e.g. `hyphen.de' or `hyphen.uk'.

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. The file `tmac/hyphen.fr' contains the same patterns as the file
`frhyph.tex' (for TeX), which can be found at

http://dante.ctan.org/CTAN/language/hyphenation/frhyph.tex

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The file `tmac/hyphen.sv' is identical to the file `svhyph.tex', which can be found at

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The files `tmac/hyphen.det' and `tmac/hyphen.den' contain the same patterns as the files `dehyphn.tex' and `dehyphytex' (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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1.453 grub2 2.02 :0.76.el7.1
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From 0000000000000000000000000000000000000000 Mon Sep 17 00:00:00 2001
From: Vladimir Serbinenko <phcoder@gmail.com>
Date: Fri, 20 Mar 2015 11:13:58 +0100
Subject: [PATCH] cacheinfo: Add missing license information.

---
grub-core/commands/cacheinfo.c | 2 ++
1 file changed, 2 insertions(+)
diff --git a/grub-core/commands/cacheinfo.c b/grub-core/commands/cacheinfo.c
index ead6ff82cfc..d34a346964c 100644
--- a/grub-core/commands/cacheinfo.c
+++ b/grub-core/commands/cacheinfo.c
@@ -23,6 +23,8 @@
 #include <grub/i18n.h>
 #include <grub/disk.h>
+GRUB_MOD_LICENSE ("GPLv3+");
+
static grub_err_t
grub_rescue_cmd_info (struct grub_command *cmd __attribute__ ((unused)),
    int argc __attribute__ ((unused)),

From 0000000000000000000000000000000000000000 Mon Sep 17 00:00:00 2001
From: dann frazier <dann.frazier@canonical.com>
Date: Thu, 21 May 2015 10:28:48 -0600
Subject: [PATCH] arm64/setjmp: Add missing license macro

Including the setjmp module in an arm64-efi image will cause it to
immediately exit with an "incompatible license" error.

The source file includes a GPLv3+ boilerplate, so fix this by declaring a
GPLv3+ license using the GRUB_MOD_LICENSE macro.

Signed-off-by: dann frazier <dann.frazier@canonical.com>
---
grub-core/lib/arm64/setjmp.S | 2 ++
1 file changed, 2 insertions(+)
diff --git a/grub-core/lib/arm64/setjmp.S b/grub-core/lib/arm64/setjmp.S
index adaafe40f71..eabfd99b296 100644
--- a/grub-core/lib/arm64/setjmp.S
+++ b/grub-core/lib/arm64/setjmp.S
@@ -17,8 +17,10 @@
 */

#include <grub/symbol.h>
+#include <grub/dl.h>

.file"setjmp.S"
+GRUB_MOD_LICENSE "GPLv3+"
.text

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From 0000000000000000000000000000000000000000 Mon Sep 17 00:00:00 2001
From: Stephane Rochoy <sheda>
---

Date: Sun, 22 Jun 2014 01:35:52 +0200
Subject: [PATCH] * grub-core/loader/i386/bsd.c (grub_netbsd_boot): Pass pointer to EFI system table.

```
---

grub-core/loader/i386/bsd.c | 8 ++++++++
include/grub/i386/netbsd_bootinfo.h | 7 +++++++
ChangeLog | 5 +++++
3 files changed, 20 insertions(+)
```

diff --git a/grub-core/loader/i386/bsd.c b/grub-core/loader/i386/bsd.c
index 41ef9109ee1..8f691e0e2d1 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;

+#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 e48c19b4089..9b4f4604103 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

diff --git a/ChangeLog b/ChangeLog
index abf8f4b2716..0cdd095a498 100644
--- a/ChangeLog
+++ b/ChangeLog
@ @ .1,3 +1,8 @@
+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

1.454  grub2-common 2.02 :0.76.el7.1

1.455  grub2-pc 2.02 :0.76.el7.1

1.455.1 Available under license :
From 000000000000000000000000000000000000000000000000000000000000000000000000
Mon Sep 17  00:00:00 2001
From: Stephane Rochoy <sheda>
Date: Sun, 22 Jun 2014 01:35:52 +0200
Subject: [PATCH] * grub-core/loader/i386/bsd.c (grub_netbsd_boot): Pass
pointer to EFI system table.

---
grub-core/loader/i386/bsd.c | 8 ++++++++
include/grub/i386/netbsd_bootinfo.h | 7 +++++++
ChangeLog | 5 ++++
3 files changed, 20 insertions(+)

diff --git a/grub-core/loader/i386/bsd.c b/grub-core/loader/i386/bsd.c
index 41ef9109ee1..8f691e0e2d1 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;
+
+  if (err)  
+    return err;

+#ifdef GRUB_MACHINE_EFI
+    err = grub_bsd_add_meta (NETBSD_BTINFO_EFI,

Open Source Used In Prime Infrastructure 3.7

struct grub_netbsd_bootinfo
{
    struct bsd_tag *tag;
    tag_buf_len = 0;
}

#define GRUB_NETBSD_MAX_ROOTDEVICE_LEN 16

+struct grub_netbsd_btinfo_efi
+{ void *pa_systbl; /* Physical address of the EFI System Table */ +};
+
#endif

diff --git a/ChangeLog b/ChangeLog
index abf8f4b2716..0cdd095a498 100644
--- a/ChangeLog
+++ b/ChangeLog
@@ -1,3 +1,8 @@
+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
  From 0000000000000000000000000000000000000000 Mon Sep 17 00:00:00 2001
  From: Vladimir Serbinenko <phcoder@gmail.com>
  Date: Fri, 20 Mar 2015 11:13:58 +0100
Subject: [PATCH] cacheinfo: Add missing license information.

---

grub-core/commands/cacheinfo.c  | 2 ++
1 file changed, 2 insertions(+)

diff --git a/grub-core/commands/cacheinfo.c b/grub-core/commands/cacheinfo.c
index ead6ff82cfc..d34a346964c 100644
--- a/grub-core/commands/cacheinfo.c
+++ b/grub-core/commands/cacheinfo.c
@@ -23,6 +23,8 @@
 #include <grub/i18n.h>
 #include <grub/disk.h>

+GRUB_MOD_LICENSE ("GPLv3+");
+
static grub_err_t
grub_rescue_cmd_info (struct grub_command *cmd __attribute__ ((unused)),
   int argc __attribute__ ((unused)),
)

#include <grub/symbol.h>
+#include <grub/dl.h>

.setirl

text

---

grub-core/lib/arm64/setjmp.S  | 2 ++
1 file changed, 2 insertions(+)

diff --git a/grub-core/lib/arm64/setjmp.S b/grub-core/lib/arm64/setjmp.S
index adaafe40f71..eabfd99b296 100644
--- a/grub-core/lib/arm64/setjmp.S
+++ b/grub-core/lib/arm64/setjmp.S
@@ -17,8 +17,10 @@
 */

#include <grub/symbol.h>
+#include <grub/dl.h>

.include "setjmp.S"
+GRUB_MOD_LICENSE "GPLv3+"
.text
/*
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 Version 3, 29 June 2007

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1.456 grub2-pc-modules 2.02 :0.76.el7.1

1.457 grub2-tools 2.02 :0.76.el7.1

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From: Vladimir Serbinenko <phcoder@gmail.com>
Date: Fri, 20 Mar 2015 11:13:58 +0100
Subject: [PATCH] cacheinfo: Add missing license information.

---
grub-core.commands/cacheinfo.c | 2 ++
1 file changed, 2 insertions(+)

diff --git a/grub-core.commands/cacheinfo.c b/grub-core.commands/cacheinfo.c
index ead6ff82cfce346964c 100644
--- a/grub-core.commands/cacheinfo.c
+++ b/grub-core.commands/cacheinfo.c
@@ -23,6 +23,8 @@
#include <grub/i18n.h>
#include <grub/disk.h>

+GRUB_MOD_LICENSE ("GPLv3+);
+
static grub_err_t
grub_rescue_cmd_info (struct grub_command *cmd __attribute__ ((unused)),
  int argc __attribute__ ((unused)),
From: dann frazier <dann.frazier@canonical.com>
Date: Thu, 21 May 2015 10:28:48 -0600
Subject: [PATCH] arm64/setjmp: Add missing license macro

Including the setjmp module in an arm64-efi image will cause it to
immediately exit with an "incompatible license" error.

The source file includes a GPLv3+ boilerplate, so fix this by declaring a
GPLv3+ license using the GRUB_MOD_LICENSE macro.

Signed-off-by: dann frazier <dann.frazier@canonical.com>
---
grub-core.lib/arm64/setjmp.S | 2 ++
1 file changed, 2 insertions(+)

diff --git a/grub-core.lib/arm64/setjmp.S b/grub-core.lib/arm64/setjmp.S
index adaafe4071..eabfd99b296 100644
--- a/grub-core.lib/arm64/setjmp.S
+++ b/grub-core.lib/arm64/setjmp.S
@@ -17,8 +17,10 @@
*/

#include <grub/symbol.h>
#include <grub/dl.h>

+file"setjmp.S"
+GRUB_MOD_LICENSE "GPLv3+
+text

/*

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Version 3, 29 June 2007

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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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d) 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)
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e) 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.

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From 0000000000000000000000000000000000000000 Mon Sep 17 00:00:00 2001
From: Stephane Rochoy <sheda>
Date: Sun, 22 Jun 2014 01:35:52 +0200
Subject: [PATCH] * grub-core/loader/i386/bsd.c (grub_netbsd_boot): Pass pointer to EFI system table.

---
grub-core/loader/i386/bsd.c | 8 ++++++++  
include/grub/i386/netbsd_bootinfo.h | 7 ++++++++ 
ChangeLog | 5 ++++
3 files changed, 20 insertions(+)

Open Source Used In Prime Infrastructure 3.7
diff --git a/grub-core/loader/i386/bsd.c b/grub-core/loader/i386/bsd.c
index 41ef9109ee1..8f691e0e2d1 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;
 
+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 e48c19b4089..9b4f4604103 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_FRAMEBUFFER 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

diff --git a/ChangeLog b/ChangeLog
index abf8f4b2716..0cdd095a498 100644
--- a/ChangeLog
+++ b/ChangeLog
@@ -1,3 +1,8 @@
+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

### 1.458 grub2-tools-extra 2.02 :0.76.el7.1

#### 1.458.1 Available under license:

From 0000000000000000000000000000000000000000 Mon Sep 17 00:00:00 2001
From: Stephane Rochoy <sheda>
Date: Sun, 22 Jun 2014 01:35:52 +0200
Subject: [PATCH] * grub-core/loader/i386/bsd.c (grub_netbsd_boot): Pass pointer to EFI system table.

---

grub-core/loader/i386/bsd.c | 8 ++++++++  
include/grub/i386/netbsd_bootinfo.h | 7 ++++++++  
ChangeLog | 5 +++++  
3 files changed, 20 insertions(+)

diff --git a/grub-core/loader/i386/bsd.c b/grub-core/loader/i386/bsd.c
index 41ef9109ee1..8f691e0e2d1 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;

+#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 e48c19b4089..9b4f4604103 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_sys tbl; /* Physical address of the EFI System Table */
    +};
    +
    +#endif

diff --git a/ChangeLog b/ChangeLog
index abf8f4b2716..0cdd095a498 100644
--- a/ChangeLog
+++ b/ChangeLog
@@ -1,3 +1,8 @@
+2014-06-21  Stephane Rochoy <sheda>
+
+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
From 0000000000000000000000000000000000000000 Mon Sep 17 00:00:00 2001
From: Vladimir Serbinenko <phcoder@gmail.com>
Date: Fri, 20 Mar 2015 11:13:58 +0100
Subject: [PATCH] cacheinfo: Add missing license information.

---
grub-core/commands/cacheinfo.c | 2 ++
1 file changed, 2 insertions(+)
Including the setjmp module in an arm64-efi image will cause it to immediately exit with an "incompatible license" error.

The source file includes a GPLv3+ boilerplate, so fix this by declaring a GPLv3+ license using the GRUB_MOD_LICENSE macro.

Signed-off-by: dann frazier <dann.frazier@canonical.com>
---

grub-core/lib/arm64/setjmp.S | 2 ++
1 file changed, 2 insertions(+)

diff --git a/grub-core/lib/arm64/setjmp.S b/grub-core/lib/arm64/setjmp.S
index adaafe40f71..eabfd99b296 100644
--- a/grub-core/lib/arm64/setjmp.S
+++ b/grub-core/lib/arm64/setjmp.S
@@ -17,8 +17,10 @@
 /*
 #include <grub/symbol.h>
 +#include <grub/dl.h>

 .file"setjmp.S"
 +GRUB_MOD_LICENSE "GPLv3+
 .text

 /*

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1.459 grub2-tools-minimal 2.02 :0.76.el7.1

1.459.1 Available under license:

From 0000000000000000000000000000000000000000 Mon Sep 17 00:00:00 2001
From: Stephane Rochoy <sheda>
Date: Sun, 22 Jun 2014 01:35:52 +0200
Subject: [PATCH] * grub-core/loader/i386/bsd.c (grub_netbsd_boot): Pass
pointer to EFI system table.

---
grub-core/loader/i386/bsd.c | 8 ++++++++ 
include/grub/i386/netbsd_bootinfo.h | 7 +++++++
ChangeLog | 5 +++++
3 files changed, 20 insertions(+)

diff --git a/grub-core/loader/i386/bsd.c b/grub-core/loader/i386/bsd.c
index 41ef9109ee1..8f691e0e2d1 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;

+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 e48c19b409..9b4f4604103 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_FRAMEBUFFER	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 */
+};
+
#ifndef

diff --git a/ChangeLog b/ChangeLog
index abf8f4b2716..0cdd095a498 100644
--- a/ChangeLog
+++ b/ChangeLog
@@ -1,3 +1,8 @@
+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
From 0000000000000000000000000000000000000000 Mon Sep 17 00:00:00 2001
From: Vladimir Serbinenko <phcoder@gmail.com>
Date: Fri, 20 Mar 2015 11:13:58 +0100
Subject: [PATCH] cacheinfo: Add missing license information.

---

grub-core/commands/cacheinfo.c | 2 ++
1 file changed, 2 insertions(+)

diff --git a/grub-core/commands/cacheinfo.c b/grub-core/commands/cacheinfo.c
index ead6ff82cfc..d34a346964c 100644
--- a/grub-core/commands/cacheinfo.c
+++ b/grub-core/commands/cacheinfo.c
@@ -23,6 +23,8 @@
#include <grub/i18n.h>
#include <grub/disk.h>
+#include <grub/i18n.h>
#include <grub/disk.h>

+GRUB_MOD_LICENSE ("GPLv3");
+
static grub_rescue_cmd_info (struct grub_command *cmd __attribute__ ((unused)),
  int argc __attribute__ ((unused)),
From 0000000000000000000000000000000000000000 Mon Sep 17 00:00:00 2001
From: dann frazier <dann.frazier@canonical.com>
Date: Thu, 21 May 2015 10:28:48 -0600
Subject: [PATCH] arm64/setjmp: Add missing license macro

Including the setjmp module in an arm64-efi image will cause it to immediately exit with an "incompatible license" error.

The source file includes a GPLv3+ boilerplate, so fix this by declaring a GPLv3+ license using the GRUB_MOD_LICENSE macro.

Signed-off-by: dann frazier <dann.frazier@canonical.com>
---
grub-core/lib/arm64/setjmp.S | 2 ++
1 file changed, 2 insertions(+)

diff --git a/grub-core/lib/arm64/setjmp.S b/grub-core/lib/arm64/setjmp.S
index adaafe40f71..eabfd99b296 100644
--- a/grub-core/lib/arm64/setjmp.S
+++ b/grub-core/lib/arm64/setjmp.S
@@ -17,8 +17,10 @@
 */

#include <grub/symbol.h>
+#include <grub/dl.h>

.file"setjmp.S"
+GRUB_MOD_LICENSE "GPLv3+
 .text

/*
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 Version 3, 29 June 2007

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/
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1.478 hsqldb 2.3.0

1.479 httpasyncclient 4.1.3

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 * include/uapi/linux/devlink.h - Network physical device Netlink interface
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 */

#ifndef _LINUX_DEVLINK_H_
#define _LINUX_DEVLINK_H_
#define DEVLINK_GENL_NAME "devlink"
#define DEVLINK_GENL_VERSION 0x1
#define DEVLINK_GENL_MCGRP_CONFIG_NAME "config"

enum devlink_command {
  /* don't change the order or add anything between, this is ABI */
  DEVLINK_CMD_UNSPEC,
  DEVLINK_CMD_GET,  /* can dump */
  DEVLINK_CMD_SET,
  DEVLINK_CMD_NEW,
  DEVLINK_CMD_DEL,
  DEVLINK_CMD_PORT_GET,  /* can dump */
  DEVLINK_CMD_PORT_SET,
  DEVLINK_CMD_PORT_NEW,
  DEVLINK_CMD_PORT_DEL,
  DEVLINK_CMD_PORT_SPLIT,
  DEVLINK_CMD_PORT_UNSPLIT,
  DEVLINK_CMD_SB_GET,  /* can dump */
  DEVLINK_CMD_SB_SET,
  DEVLINK_CMD_SB_NEW,
  DEVLINK_CMD_SB_DEL,
  DEVLINK_CMD_SB_POOL_GET,  /* can dump */
  DEVLINK_CMD_SB_POOL_SET,
  DEVLINK_CMD_SB_POOL_NEW,
  DEVLINK_CMD_SB_POOL_DEL,
  DEVLINK_CMD_SB_PORT_POOL_GET,  /* can dump */
  DEVLINK_CMD_SB_PORT_POOL_SET,
  DEVLINK_CMD_SB_PORT_POOL_NEW,
  DEVLINK_CMD_SB_PORT_POOL_DEL,
  DEVLINK_CMD_SB_TC_POOL_BIND_GET,  /* can dump */
  DEVLINK_CMD_SB_TC_POOL_BIND_SET,
  DEVLINK_CMD_SB_TC_POOL_BIND_NEW,
  DEVLINK_CMD_SB_TC_POOL_BIND_DEL,
  /* Shared buffer occupancy monitoring commands */
  DEVLINK_CMD_SB_OCC_SNAPSHOT,
  DEVLINK_CMD_SB_OCC_MAX_CLEAR,
  DEVLINK_CMD_ESWITCH_GET,
  #define DEVLINK_CMD_ESWITCH_MODE_GET /* obsolete, never use this */
  DEVLINK_CMD_ESWITCH_GET
DEVLINK_CMD_ESWITCH_SET,
#define DEVLINK_CMD_ESWITCH_MODE_SET /* obsolete, never use this! */
DEVLINK_CMD_MAX

/* add new commands above here */

__DEVLINK_CMD_MAX,
DEVLINK_CMD_MAX = __DEVLINK_CMD_MAX - 1
};

enum devlink_port_type {
DEVLINK_PORT_TYPE_NOTSET,
DEVLINK_PORT_TYPE_AUTO,
DEVLINK_PORT_TYPE_ETH,
DEVLINK_PORT_TYPE_IB,
};

enum devlink_sb_pool_type {
DEVLINK_SB_POOL_TYPE_INGRESS,
DEVLINK_SB_POOL_TYPE_EGRESS,
};

/* static threshold - limiting the maximum number of bytes.
* dynamic threshold - limiting the maximum number of bytes
* based on the currently available free space in the shared buffer pool.
* In this mode, the maximum quota is calculated based
* on the following formula:
*   max_quota = alpha / (1 + alpha) * Free_Buffer
* While Free_Buffer is the amount of none-occupied buffer associated to
* the relevant pool.
* The value range which can be passed is 0-20 and serves
* for computation of alpha by following formula:
*   alpha = 2 ^ (passed_value - 10)
*/

enum devlink_sb_threshold_type {
DEVLINK_SB_THRESHOLD_TYPE_STATIC,
DEVLINK_SB_THRESHOLD_TYPE_DYNAMIC,
};

#define DEVLINK_SB_THRESHOLD_TO_ALPHA_MAX 20

enum devlink_eswitch_mode {
DEVLINK_ESWITCH_MODE_LEGACY,
DEVLINK_ESWITCH_MODE_SWITCHDEV,
};

enum devlink_eswitch_inline_mode {
DEVLINK_ESWITCH_INLINE_MODE_NONE,
DEVLINK_ESWITCH_INLINE_MODE_LINK,
DEVLINK_ESWITCH_INLINE_MODE_NETWORK,
DEVLINK_ESWITCH_INLINE_MODE_TRANSPORT,
};

enum devlink_attr {
    /* don’t change the order or add anything between, this is ABI */
    DEVLINK_ATTR_UNSPEC,

    /* bus name + dev name together are a handle for devlink entity */
    DEVLINK_ATTR_BUS_NAME,/* string */
    DEVLINK_ATTR_DEV_NAME,/* string */

    DEVLINK_ATTR_PORT_INDEX,/* u32 */
    DEVLINK_ATTR_PORT_TYPE,/* u16 */
    DEVLINK_ATTR_PORT_DESIRED_TYPE,/* u16 */
    DEVLINK_ATTR_PORT_NETDEV_IFINDEX,/* u32 */
    DEVLINK_ATTR_PORT_NETDEV_NAME,/* string */
    DEVLINK_ATTR_PORT_IBDEV_NAME,/* string */
    DEVLINK_ATTR_PORT_SPLIT_COUNT,/* u32 */
    DEVLINK_ATTR_PORT_SPLIT_GROUP,/* u32 */
    DEVLINK_ATTR_SB_INDEX,/* u32 */
    DEVLINK_ATTR_SB_SIZE,/* u32 */
    DEVLINK_ATTR_SB_INGRESS_POOL_COUNT,/* u16 */
    DEVLINK_ATTR_SB_EGRESS_POOL_COUNT,/* u16 */
    DEVLINK_ATTR_SB_INGRESS_TC_COUNT,/* u16 */
    DEVLINK_ATTR_SB_EGRESS_TC_COUNT,/* u16 */
    DEVLINK_ATTR_SB_POOL_INDEX,/* u16 */
    DEVLINK_ATTR_SB_POOL_TYPE,/* u8 */
    DEVLINK_ATTR_SB_POOL_SIZE,/* u32 */
    DEVLINK_ATTR_SB_POOL_THRESHOLD_TYPE,/* u8 */
    DEVLINK_ATTR_SB_THRESHOLD,/* u32 */
    DEVLINK_ATTR_SB_TC_INDEX,/* u16 */
    DEVLINK_ATTR_SB_OCC_CUR,/* u32 */
    DEVLINK_ATTR_SB_OCC_MAX,/* u32 */
    DEVLINK_ATTR_ESWITCH_MODE,/* u16 */
    DEVLINK_ATTR_ESWITCH_INLINE_MODE,/* u8 */

    /* add new attributes above here, update the policy in devlink.c */

    __DEVLINK_ATTR_MAX,
    DEVLINK_ATTR_MAX = __DEVLINK_ATTR_MAX - 1
};

#endif /* _LINUX_DEVLINK_H_ */

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Version 2, June 1991
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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,
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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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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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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 accompany
the executable.

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Version 1.1

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(1)

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Steven Brandt's JavaWorld article, 'Java Tip 128: Create a quick-and-dirty XML parser.' We ask that you reference the author as the creator and JavaWorld as the original publisher of the code.” Steven Brandt also agreed with the use of this class.

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com/itextpdf/text/pdf/LZWDecoder.java (first appearance in iText: 2002-02-08)
com/itextpdf/text/pdf/codec/BmpImage.java (first appearance in iText: 2003-06-20)
com/itextpdf/text/pdf/codec/TIFFFaxDecoder.java (first appearance in iText: 2003-04-09)
com/itextpdf/text/pdf/codec/TIFFField.java (first appearance in iText: 2003-04-09)
com/itextpdf/text/pdf/codec/TIFFLZWDecoder.java (first appearance in iText: 2003-04-09)

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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/itextpdf/text/pdf/codec/TIFFConstants and some other TIFF related code is derived from LIBTIFF:

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This contribution involves:

a. extra colspan functionality added to the following classes:
   ColumnText, PdfPTable, and PdfPCell.

b. an extra table event: PdfPCellEventAfterSplit (also involving PdfPCellEventForwarder).

(7) Adobe XMP library

In package com.itextpdf.xmp, we're using the Adobe XMP library. This library was released under the following terms:

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(1)

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(2)

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Jennifer Orr (JavaWorld) wrote: 'You have permission to use the code appearing in Steven Brandt's JavaWorld article, 'Java Tip 128: Create a quick-and-dirty XML parser.'
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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/itextpdf/text/pdf/codec/TIFFConstants
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   b. an extra table event: PdfPTableEventAfterSplit (also involving PdfPTableEventForwarder).

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of the code. There are many ways you could offer source, and different
solutions will be better for different programs; see section 13 for the
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(1)

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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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Java 1.5: Added support for BMP and WBMP
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The JAI Image I/O Tools packages (jai-imageio-core) were created
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- Apache Commons: commons-imaging
- Apache Commons: commons-io

(1) ExceptionConverter:
The original version of this class was published in an article by Heinz Kabutz.
Read http://www.javaspecialists.eu/archive/Issue033.html
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(2) SimpleXMLParser:
The original version of this class was published in a JavaWorld article by Steven Brandt:
Jennifer Orr (JavaWorld) wrote: "You have permission to use the code appearing in Steven Brandt's JavaWorld article, 'Java Tip 128: Create a quick-and-dirty XML parser.'
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com/itextpdf/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/itextpdf/text/pdf/codec/TIFFConstants and some other TIFF related code is derived from LIBTIFF:

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a. extra colspan functionality added to the following classes:
   ColumnText, PdfPTable, and PdfPRow.
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(7) Adobe XMP library

In package com.itextpdf.xmp, we're using the Adobe XMP library.
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ability to handle a lot of 'broken' TIFFs."

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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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FYI: Brian also added: "A bit of history might be in order. The codec classes that you used originally were based on some
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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

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Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.
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1.538 jackson-mapper-asl 1.9.13

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1.539 jackson-mapper-asl 1.5.8

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1.541 jackson-module-jaxb-annotations 2.9.9

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1.548 jandex 2.0.5.Final

1.549 jansson 2.10 :1.el7

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1.573 JAXB IMPL 2.1.7

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1.574 jaxb-api 2.2

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products by Oracle and other vendors.

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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1.582 jaxen 1.1.6

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1.584 jaxen-1.1-beta 4

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1.585 jaxen-1.1-beta-4 1.1 :beta 4
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1.586 jaxen-core 1.0-FCS

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jaxen-jdom from jdom 1.1 distribution

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

1.588 jboss-logging 3.3.2.Final

1.589 jboss-transaction-api_1.2_spec

1.1.1.Final

1.590 JCL - Core 2.2.1

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1.591 jcl-over-slf4j 1.5.8

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1.592 jcodings-1.0.10 1.0.10
1.593 jCommon 1.0.15

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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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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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1.594 jcommon-1.0.17 1.0.17

1.594.1 Available under license :

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

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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.
     */
    public String getValue() {
        return text;
    }

    /**
     * This returns the textual data within the <code>Comment</code>.
     */
    public String getCommentText() {
        return text;
    }
}
* @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();
 }

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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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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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*/

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Modified by Atlassian

The binary file of the original library has been modified by Atlassian in such way that classes have changed
their package name from 'com.lowagie' to 'clover.com.lowagie'. 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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<signature of Ty Coon>, 1 April 1990
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==================================================================================

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The primary ANTLR guy:

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parrt@antlr.org

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No source code of the original library was modified.

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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>.

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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.

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,
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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
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than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy
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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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the materials to be distributed need not include anything that is
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1.620 jradius-core-1.1.4 1.1.4

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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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b) Use a suitable shared library mechanism for linking with the
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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.

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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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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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(For example, a function in a library to compute square roots has
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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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* 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>
* 
* For the complete explanation of all archive definition parameters, see RRDTool's
* man page.
* */
public class ArcDef {

/** array of valid consolidation function names */
public static final String CONSOL_FUNS[] = { "AVERAGE", "MAX", "MIN", "LAST" };

private String consolFun;
private double xff;
private int steps, rows;

/**
 * <p>Creates new archive definition object. This object should be passed as argument to
 * {@link org.jrobin.core.RrdDef#addArchive(org.jrobin.core.ArcDef) addArchive()} method of
 * {@link org.jrobin.core.RrdDb RrdDb} object.</p>
 *<p>For the complete explanation of all archive definition parameters, see RRDTool's
 *<a href="../../../../../man/rrdcreate.html" target="man">rrdcreate man page</a></p>
 *<p>@param consolFun Consolidation function. Allowed values are "AVERAGE", "MIN",
 * "MAX" and "LAST".
 *<p>@param xff X-files factor, between 0 and 1.
 *<p>@param steps Number of archive steps.
 *<p>@param rows Number of archive rows.
 *<p>@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.
 *<p>@return Consolidation function.
 */
public String getConsolFun() {
    return consolFun;
}

/**
 * Returns the X-files factor.
 *<p>@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;
        // Comparison logic
    }
}
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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require 'jruby/java/java_module'
require 'jruby/java/java_package_module_template'
require 'jruby/java/java_utilities'

require 'jruby/java/core_ext'
require 'jruby/java/java_ext'

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package org.jruby;

/**
 * An almost entirely useless interface for those objects that we _really_ want
 * to finalize.
 * 
 * @author pldms
 *
 */
public interface Finalizable {
    public void finalize() throws Throwable;
}

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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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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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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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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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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.

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1.631 json 20090211

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1.632 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.
* @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 == '\t');
switch (c) {
case 0:
return null;
case '"':
case '\'':
q = c;
sb = new StringBuffer();
for (;;) {
c = x.next();
if (c == q) {
break;
}
if (c == 0 || c == '\n' || c == '\r') {
throw x.syntaxError("Missing close quote '" + q + "'.");
}
sb.append(c);
}
return sb.toString();
case ',':
x.back();
return "";
default:

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/**
 * 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 == '
' || c == '' || 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('
') >= 0 || string.indexOf('') >= 0 ||
                string.charAt(0) == '"')) {
                sb.append('"');
                int length = string.length();
                for (int j = 0; j < length; j += 1) {
                    char c = string.charAt(j);
                    if (c >= ' ' && c != '"') {
                        sb.append(c);
                    }
                }
                sb.append('"');
            } else {
                sb.append(string);
            }
        }
    } sb.append('n');
    return sb.toString();
}

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

/**
 * 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
 */
public static String toString(JSONArray names, JSONArray ja)
 throws JSONException {
    if (names == null || names.length() == 0) {
        return null;
    }
    StringBuffer sb = new StringBuffer();
    for (int i = 0; i < ja.length(); i += 1) {
        JSONObject jo = ja.optJSONObject(i);
        if (jo != null) {
            sb.append(rowToString(jo.toJSONArray(names)));
        }
    }
    return sb.toString();
}
1.633 json-c 0.11 :4.el7_0
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1.634 json-lib 2.4

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1.635 jsp-api 2.2.1-b03

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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.

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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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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
>3byte%8x%d
# # PC Screen (console) Fonts - psf2 header #
0 lelong 0x864ab572 psf2 screen font data
>12 lelong &1 with Unicode index
>16lelongxb, %d glyphs
>28lelongxb, %dx
>24lelongxb%d
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Rebecca Schultz Zavin
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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 \texttt{<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) \texttt{skb->destructor / skb->atm.recycle_buffer}
* combined, allow nicstar\_free\_rx\_skb to be called to
* recycle large data buffers
* 2) \texttt{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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        || 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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1.655 kernel-devel 3.10.0 :957.21.3.el7

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Linus Torvalds

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Version 2, June 1991

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of these things:

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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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The DSP/Bridge project wish to thank all of its contributors, current bridge driver is the result of the work of all of them. If any name is accidentally omitted, let us know by sending a mail to omar.ramirez@ti.com or x095840@ti.com.

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* 
* 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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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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(in case you are wondering where CyberLogin is, EON changed its login
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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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<title>Addendum</title>

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1.656 kernel-headers 3.10.0 :957.21.3.el7
1.656.1 Available under license:

```c
#ifndef __LICENSE_H
#define __LICENSE_H

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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/* 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
   *
   * 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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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
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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.

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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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"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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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
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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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Thanks go to the following people for patches and contributions:

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for the initial saa7146 driver and its recent overhaul

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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.)

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for patching the cable card decoder driver

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for various fixes regarding tuning, OSD and CI stuff and his work on VDR

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for his LIRC infrared handler

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for adding support for Typhoon DVB-S budget card

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for the IR code for the ttusb-dec driver

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for the nxt2002 frontend driver

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for the nxt2004 frontend driver

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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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Linus Torvalds

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TI DSP/Bridge Driver - Contributors File

The DSP/Bridge project wish to thank all of its contributors, current bridge driver is the result of the work of all of them. If any name is accidentally omitted, let us know by sending a mail to omar.ramirez@ti.com or x095840@ti.com.

Please keep the following list in alphabetical order.

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Ivan Gomez Castellanos
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Axel Haslam
/* 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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```
#ifndef __LICENSE_H
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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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Michael Chu <mmchu@pobox.com>
AverMedia fix and more flexible card recognition

Alan Cox <alan@lxorguk.ukuu.org.uk>
Video4Linux interface and 2.1.x kernel adaptation

Chris Kleitsch
Hardware I2C

Gerd Knorr <kraxel@cs.tu-berlin.de>
Radio card (ITT sound processor)

bigfoot <bigfoot@net-way.net>
Ragnar Hojland Espinosa <ragnar@macula.net>
ConferenceTV card

+ many more (please mail me if you are missing in this list and would like to be mentioned)

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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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Mark Grosen
/* 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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(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

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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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1.658 kernel-tools-libs-3.10.0 3.10.0

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The DSP/Bridge project wish to thank all of its contributors, current bridge driver is the result of the work of all of them. If any name is accidentally omitted, let us know by sending a mail to omar.ramirez@ti.com or x095840@ti.com.

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 * 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
cancel 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
           || strcmp(license, "Dual MPL/GPL") == 0);
}

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1.659 kexec-tools 2.0.15 :21.el7_6.3

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# Kdump configuration common methods
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#
import os
import re
__all__ = ["getReservedMemory", "getTotalMemory", "getMemoryBounds"]

import blivet.arch

_reservedMemory = None

def getReservedMemory():
    """Return the amount of memory currently reserved for kdump in MB."""
    global _reservedMemory

    # Check if the value has already been read
    if _reservedMemory is not None:
        return _reservedMemory

    try:
        with open("/sys/kernel/kexec_crash_size", "r") as fobj:
            _reservedMemory = int(fobj.read()) / (1024*1024)
        return _reservedMemory
    except (ValueError, IOError):
        return 0

def getTotalMemory():
    """Return the total amount of system memory in MB

    This is the amount reported by /proc/meminfo plus the amount currently
    reserved for kdump.
    """
    memkb = 0
    fd = open("/proc/meminfo").read()
    matched = re.search(r'^MemTotal:\s+\d+', fd)
    if matched:
        memkb = int(matched.groups()[0])

    # total_memory return memory in KB, convert to MB
    availMem = memkb / 1024

    return availMem + getReservedMemory()

def getMemoryBounds():
    """Return a tuple of (lower, upper, step) for kdump reservation limits.

    If there is not enough memory available to use kdump, both lower and
    upper will be 0.
    """
    totalMemory = getTotalMemory()
    arch = blivet.arch.getArch()

    if arch.startswith('ppc64'):
lowerBound = 384
minUsable = 1024
step = 1
elif arch == 'aarch64':
    lowerBound = 512
    minUsable = 512
    step = 1
else:
    lowerBound = 160
    minUsable = 512
    step = 1

upperBound = (totalMemory - minUsable) - (totalMemory % step)

if upperBound < lowerBound:
    upperBound = lowerBound = 0

return (lowerBound, upperBound, step)

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1.662 keyutils 1.5.8 :3.el7

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Whether this is true is especially significant if the work can be
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The source code for a work means the preferred form of the work for
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Appendix: How to Apply These Terms to Your New Programs

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    <signature of Ty Coon>, 1 April 1989
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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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That's all there is to it!

1.664 keyutils_GPLv2 1.5.8 :3.el7

1.664.1 Available under license:

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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.

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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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"\n\" Copyright (C) 2006 Red Hat, Inc. All Rights Reserved.
\" Written by David Howells (dhowells@redhat.com)
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1.665 kmod 20 :23.el7

1.665.1 Available under license:

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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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(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.

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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
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specified in Subsection 6a, above, for a charge no more
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d) If distribution of the work is made by offering access to copy
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For an executable, the required form of the "work that uses the
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1.668 krb5-libs 1.15.1 :37.el7_6

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lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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

include/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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cmd/krb5/iprop/iprop_hdr.h
cmd/krb5/kadmin/server/ipropd_svc.c
cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mach/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mach/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
lib/libgss/g_export_name.c
lib/libgss/g_glue.c
lib/libgss/g_imp_name.c
lib/libgss/g_imp_sec_context.c
lib/libgss/g_init_sec_context.c
lib/libgss/g_initialize.c
lib/libgss/g_inquire_context.c
lib/libgss/g_inquire_cred.c
lib/libgss/g_inquire_names.c
lib/libgss/g_process_context.c
lib/libgss/g_rel_buffer.c
lib/libgss/g_rel_cred.c
```
lib/libgss/g_rel_name.c
lib/libgss/g_rel_oid_set.c
lib/libgss/g_seal.c
lib/libgss/g_sign.c
lib/libgss/g_store_cred.c
lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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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

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
            break
    if is_license:
        if text_seen:
            warn(fname, ln, 'Text and license statements mixed')
        code_seen = True
        nonlicense_seen = False
    else:
        if not text_seen:
            warn(fname, ln, 'No license before code')
        code_seen = True
        text_seen = True
        nonlicense_seen = False

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
            break
    if is_license:
        if text_seen:
            warn(fname, ln, 'Text and license statements mixed')
        code_seen = True
        nonlicense_seen = False
    else:
        if not text_seen:
            warn(fname, ln, 'No license before code')
        code_seen = True
        text_seen = True
        nonlicense_seen = False
is_license = True
if text_seen:
    warn(fname, ln, 'License begins after first line of comment')
eif code_seen:
    warn(fname, ln, 'License after code')
eif 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())
eif in_comment and '*/' in line:
    comment.append(line.lstrip('**').lstrip())
eif 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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   :hidden:

   copyright.rst

.. include:: notice.rst

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<head>
  <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
  <title>MIT Kerberos License information &mdash; MIT Kerberos Documentation</title>
  <link rel="stylesheet" href="_static/agogo.css" type="text/css" />
  <link rel="stylesheet" href="_static/pygments.css" type="text/css" />
  <link rel="stylesheet" href="_static/kerb.css" type="text/css" />
  <script type="text/javascript">

</html>
var DOCUMENTATION_OPTIONS = {
    URL_ROOT:    './',
    VERSION:     '1.15.1',
    COLLAPSE_INDEX: false,
    FILE_SUFIX: ':.html',
    HAS_SOURCE:  true
};
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<tt class="docutils literal"><span class="pre">src/lib/gssapi</span></tt>, including the following files:

- <tt class="docutils literal"><span class="pre">lib/gssapi/generic/gssapi_err_generic.c</span></tt>
- <tt class="docutils literal"><span class="pre">lib/gssapi/mechglue/g_accept_sec_context.c</span></tt>
- <tt class="docutils literal"><span class="pre">lib/gssapi/mechglue/g_acquire_cred.c</span></tt>
- <tt class="docutils literal"><span class="pre">lib/gssapi/mechglue/g_canon_name.c</span></tt>
- <tt class="docutils literal"><span class="pre">lib/gssapi/mechglue/g_compare_name.c</span></tt>
- <tt class="docutils literal"><span class="pre">lib/gssapi/mechglue/g_context_time.c</span></tt>
- <tt class="docutils literal"><span class="pre">lib/gssapi/mechglue/g_delete_sec_context.c</span></tt>
- <tt class="docutils literal"><span class="pre">lib/gssapi/mechglue/g_dsp_name.c</span></tt>
- <tt class="docutils literal"><span class="pre">lib/gssapi/mechglue/g_dsp_status.c</span></tt>
- <tt class="docutils literal"><span class="pre">lib/gssapi/mechglue/g_dup_name.c</span></tt>
- <tt class="docutils literal"><span class="pre">lib/gssapi/mechglue/g_exp_sec_context.c</span></tt>
- <tt class="docutils literal"><span class="pre">lib/gssapi/mechglue/g_export_name.c</span></tt>
- <tt class="docutils literal"><span class="pre">lib/gssapi/mechglue/g_glue.c</span></tt>
- <tt class="docutils literal"><span class="pre">lib/gssapi/mechglue/g_imp_name.c</span></tt>
- <tt class="docutils literal"><span class="pre">lib/gssapi/mechglue/g_imp_sec_context.c</span></tt>
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
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/krb5/error_tables.c
slave/kpropd_rpc.c

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

.. parsed-literal::

   lib/gssapi/generic/gssapi_err_generic.et
   lib/gssapi/mechglue/g_accept_sec_context.c
   lib/gssapi/mechglue/g_acquire_cred.c
   lib/gssapi/mechglue/g_canon_name.c
   lib/gssapi/mechglue/g_compare_name.c
   lib/gssapi/mechglue/g_context_time.c
   lib/gssapi/mechglue/g_delete_sec_context.c
   lib/gssapi/mechglue/g_dsp_name.c
   lib/gssapi/mechglue/g_dsp_status.c
   lib/gssapi/mechglue/g_dup_name.c
   lib/gssapi/mechglue/g_exp_sec_context.c
   lib/gssapi/mechglue/g_export_name.c
   lib/gssapi/mechglue/g_glue.c
   lib/gssapi/mechglue/g_imp_name.c
   lib/gssapi/mechglue/g_imp_sec_context.c
   lib/gssapi/mechglue/g_init_sec_context.c
   lib/gssapi/mechglue/g_initialize.c
   lib/gssapi/mechglue/g_inquire_context.c
   lib/gssapi/mechglue/g_inquire_cred.c
   lib/gssapi/mechglue/g_inquire_names.c
   lib/gssapi/mechglue/g_process_context.c
   lib/gssapi/mechglue/g_rel_buffer.c
   lib/gssapi/mechglue/g_rel_cred.c
   lib/gssapi/mechglue/g_rel_name.c
   lib/gssapi/mechglue/g_rel_oid_set.c
   lib/gssapi/mechglue/g_seal.c
   lib/gssapi/mechglue/g_sign.c
   lib/gssapi/mechglue/g_store_cred.c
   lib/gssapi/mechglue/g_unseal.c
   lib/gssapi/mechglue/g_userok.c
   lib/gssapi/mechglue/g_utils.c
   lib/gssapi/mechglue/g_verify.c
   lib/gssapi/mechglue/gssd pname_to_uid.c
   lib/gssapi/mechglue/mglueP.h
   lib/gssapi/mechglue/oid_ops.c
   lib/gssapi/spnego/gssapiP_spnego.h
   lib/gssapi/spnego/spnego_mech.c
and the initial implementation of incremental propagation, including
the following new or changed files:

.. 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
    lib/kdb/kdb_log.h
    lib/krb5/error_tables/kdb5_err.et
    slave/kpropd_rpc.c
    slave/kproplog.c

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Ty Coon, President of Vice

That's all there is to it!

1.672 libaio 0.3.109 :13.el7
1.672.1 Available under license:

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Version 2.1, February 1999
Preamble

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In other cases, permission to use a particular library in non-free
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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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Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

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Ty Coon, President of Vice

That's all there is to it!

1.673 libaio-devel 0.3.109 :13.el7

1.673.1 Available under license :

From 0000000000000000000000000000000000000000 Mon Sep 17 00:00:00 2001
From: Stephane Rochoy <sheda>
Date: Sun, 22 Jun 2014 01:35:52 +0200
Subject: [PATCH] * grub-core/loader/i386/bsd.c (grub_netbsd_boot): Pass pointer to EFI system table.

--- grub-core/loader/i386/bsd.c         | 8 ++++++++ 
include/grub/i386/netbsd_bootinfo.h | 7 +++++++
ChangeLog                           | 5 +++++
3 files changed, 20 insertions(+)

diff --git a/grub-core/loader/i386/bsd.c b/grub-core/loader/i386/bsd.c
index 41ef9109ee1..8f691e0e2d1 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;

+#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;
    
    struct grub_netbsd_bootinfo
    {  
    
        #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
    {
    
    #define GRUB_NETBSD_MAX_ROOTDEVICE_LEN 16

    +struct grub_netbsd_btinfo_efi
    +{
    +    void *pa_systbl; /* Physical address of the EFI System Table */
    +};
    +
    +#endif

diff --git a/include/grub/i386/netbsd_bootinfo.h b/include/grub/i386/netbsd_bootinfo.h
index e48c19b4089..9b4f4604103 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
    {
    
    #define GRUB_NETBSD_MAX_ROOTDEVICE_LEN 16

    +struct grub_netbsd_btinfo_efi
    +{  
    +    void *pa_systbl; /* Physical address of the EFI System Table */
    +};
    +
    +#endif

diff --git a/ChangeLog b/ChangeLog
index abf8f4b2716..0cdd095a498 100644
--- a/ChangeLog
+++ b/ChangeLog
@@ -1,3 +1,8 @@
+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

From 0000000000000000000000000000000000000000 Mon Sep 17 00:00:00 2001
From: Vladimir Serbinenko <phcoder@gmail.com>
Date: Fri, 20 Mar 2015 11:13:58 +0100
Subject: [PATCH] cacheinfo: Add missing license information.

---
grub-core/commands/cacheinfo.c | 2 ++
1 file changed, 2 insertions(+)
diff --git a/grub-core/commands/cacheinfo.c b/grub-core/commands/cacheinfo.c
index ead6ff82cfc..d34a346964c 100644
--- a/grub-core/commands/cacheinfo.c
+++ b/grub-core/commands/cacheinfo.c
@@ -23,6 +23,8 @@
#include <grub/i18n.h>
#include <grub/disk.h>
+GRUB_MOD_LICENSE ("GPLv3+");
+
static grub_err_t
grub_rescue_cmd_info (struct grub_command *cmd __attribute__ ((unused)),
        int argc __attribute__ ((unused)),

From 0000000000000000000000000000000000000000 Mon Sep 17 00:00:00 2001
From: dann frazier <dann.frazier@canonical.com>
Date: Thu, 21 May 2015 10:28:48 -0600
Subject: [PATCH] arm64/setjmp: Add missing license macro

Including the setjmp module in an arm64-efi image will cause it to
immediately exit with an "incompatible license" error.

The source file includes a GPLv3+ boilerplate, so fix this by declaring a
GPLv3+ license using the GRUB_MOD_LICENSE macro.

Signed-off-by: dann frazier <dann.frazier@canonical.com>
---
grub-core/lib/arm64/setjmp.S | 2 ++
1 file changed, 2 insertions(+)
diff --git a/grub-core/lib/arm64/setjmp.S b/grub-core/lib/arm64/setjmp.S
index adaafe40f71..eabfd99b296 100644
--- a/grub-core/lib/arm64/setjmp.S
+++ b/grub-core/lib/arm64/setjmp.S
@@ -17,8 +17,10 @@
*/

#include <grub/symbol.h>
+include <grub/dl.h>

.file "setjmp.S"
+GRUB_MOD_LICENSE "GPLv3+
.text

/*

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Version 3, 29 June 2007

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To protect your rights, we need to prevent others from denying you
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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.

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@end if{tex}
@heading END OF TERMS AND CONDITIONS
@if{info}
@end if{info}
@center END OF TERMS AND CONDITIONS
@if{info}
@end if{info}

@unnumberedsec How to Apply These Terms to Your New Programs

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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.
@small{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}

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along with this program. If not, see @url{http://www.gnu.org/licenses/}.
@end small{example}
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:

@example
@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 example

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 enumerate

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@cindex LGPL, Lesser General Public License
@center Version 2.1, February 1999

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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, whereas the latter must be combined with the library in order to run.

@iftex
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@end iftex
@ifinfo
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@enumerate
@item
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If distribution of object code is made by offering access to copy
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@item
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@item
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@enumerate
@item
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@item
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@item
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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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
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@end enumerate

@ifex
@end iftex
@ifinfo
@end ifinfo

@page
@appendixsubsec 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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@var{one line to give the library's name and an idea of what it does.}
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USA.
@end smallexample

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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:

@end smallexample
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

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Version 2.1, February 1999

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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.

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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 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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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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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.

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

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Gadi Oxman, August 1995

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<one line to give the program's name and a brief idea of what it does.>
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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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:$($(BSDLIB_LIB))

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

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

install-strip: install
install-shlibs-strip: install-shlibs

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

clean::
$(RM) -rf pic
$(RM) -f $(BSDLIB_LIB)
$(RM) -f ../$(BSDLIB_LIB)

1.682 libcroco 0.6.12 :4.el7
1.682.1 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.

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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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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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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.

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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
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.

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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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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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!

1.683 libcurl 7.29.0 :51.el7
1.683.1 Available under license :
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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.gnults.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/

(May be used for SSL/TLS support) Is covered by the MPL[4] license,
the GPL[1] license and the LGPL[3] license. You may choose to license
the code under MPL terms, GPL terms, or LGPL terms. These licenses
grant you different permissions and impose different obligations. You
should select the license that best meets your needs.

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

(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.
MIT Kerberos http://web.mit.edu/kerberos/www/dist/

(May be used for GSS support) MIT licensed, that shouldn't collide with any other parts.

Heimdal http://www.pdc.kth.se/heimdal/

(May be used for GSS support) Heimdal is Original BSD licensed with the announcement clause.

GNU GSS http://www.gnu.org/software/gss/

(May be used for GSS support) GNU GSS is GPL licensed. Note that you may not distribute binary curl packages that uses this if you build curl to also link and use any Original BSD licensed libraries!

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/

(Used for IDNA support) Uses the GNU Lesser General Public License [3]. LGPL is a variation of GPL with slightly less aggressive "copyleft". This license requires more requirements to be met when distributing binaries, see the license for details. Also note that if you distribute a binary that includes this library, you must also include the full LGPL license text. Please properly point out what parts of the distributed package that the license addresses.

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.

[2] = http://www.fsf.org/licenses/gpl-faq.html#GPLIncompatibleLibs details on how to write such an exception to the GPL
[3] = LGPL - GNU Lesser General Public License:
1.684 libdaemon 0.14 :7.el7

1.684.1 Available under license:

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Version 2.1, February 1999

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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.

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 "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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"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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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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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.
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--- db-5.3.21/src/crypto/mersenne/mt19937db.c.licensefix
+++ db-5.3.21/src/crypto/mersenne/mt19937db.c
@@ -16,16 +16,27 @@
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1.687 libdnet 1.12 :13.1.el7

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1.688 libdrm 2.4.91 :3.el7
1.689 libecap 1.0.0 :1.el7

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1.691 libestr 0.1.9 :2.el7

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1.692 libevent 2.0.21 :4.el7
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1.693 libfastjson 0.99.4 :3.el7

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1.695 libfontenc 1.1.3 :3.el7

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1.696 libgcc 4.8.5 :36.el7_6.2
1.697 libgcrypt 1.5.3 :14.el7

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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.

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That's all there is to it!

1.709 libmount 2.23.2 :59.el7_6.1
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"     @(#)col.16.8 (Berkeley) 6/17/91
"     .TH COL "1" "September 2011" "util-linux" "User Commands"
.SH NAME
col - filter reverse line feeds from input
.SH SYNOPSIS
.B col
[options]
.SH DESCRIPTION
.B col
filters out reverse (and half-reverse) line feeds so the output is in the
correct order with only forward and half-forward line feeds, and replaces
white-space characters with tabs where possible. This can be useful in
processing the output of
.BR nroff (1)
and
.BR tbl (1).
.PP
.B col
reads from standard input and writes to standard output.
.SH OPTIONS
.TP
\(\-b\), \(\-\-no-backspaces\)
Do not output any backspaces, printing only the last character written to
each column position.
.TP
\(\-f\), \(\-\-fine\)
Forward half line feeds are permitted
.I fine
mode. Normally characters printed on a half-line boundary are printed on the
following line.
.TP
\(\-p\), \(\-\-pass\)
Force unknown control sequences to be passed through unchanged. Normally,
.B col
will filter out any control sequences from the input other than those
recognized and interpreted by itself, which are listed below.
.TP
**Open Source Used In Prime Infrastructure 3.7**

```
\(\text{\textbackslash B-h}\), \(\text{\textbackslash B-\--tabs}\)
Output tabs instead of multiple spaces.

\(\text{\textbackslash TP}\)
\(\text{\textbackslash B-x}\), \(\text{\textbackslash B-\--spaces}\)
Output multiple spaces instead of tabs.

\(\text{\textbackslash It Fl l, Fl Fl lines Ar num}\)
\(\text{\textbackslash TP}\)
\(\text{\textbackslash B-\--lines}\) \(\text{\textbackslash number}\)
Buffer at least \text{\textbackslash .I number} lines in memory. By default, 128 lines are buffered.

\(\text{\textbackslash It Fl V, Fl Fl version}\)
\(\text{\textbackslash TP}\)
\(\text{\textbackslash B-\--version}\)
Output version information and exit.

\(\text{\textbackslash TP}\)
\(\text{\textbackslash B-\--help}\)
Output help and exit.

**SH NOTES**
The control sequences for carriage motion that \text{\textbackslash B col}
understands and their decimal values are listed in the following table:

<table>
<thead>
<tr>
<th>Control Sequence</th>
<th>Decimal Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>\text{ESC-7}</td>
<td>0</td>
</tr>
<tr>
<td>\text{ESC-8}</td>
<td>18</td>
</tr>
<tr>
<td>\text{ESCC-9}</td>
<td>1</td>
</tr>
<tr>
<td>\text{backspace}</td>
<td>8</td>
</tr>
<tr>
<td>\text{newline}</td>
<td>10</td>
</tr>
<tr>
<td>\text{carriage return}</td>
<td>13</td>
</tr>
</tbody>
</table>

`B` backspace moves back one column (8); ignored in the first column.

`B` newline forward line feed (10); also does carriage return.

`B` carriage return.

`B` shift in shift to normal character set (15).

`B` shift out
shift to alternate character set (14)
.move one column (32)
.tab moves forward to next tab stop (9)
.vertical tab reverse line feed (11)
All unrecognized control characters and escape sequences are discarded.
.col keeps track of the character set as characters are read and makes sure the
character set is correct when they are output.
If the input attempts to back up to the last flushed line,
will display a warning message.
.SH SEE ALSO
.expand (1),
.nroff (1),
.tbl (1)
.SH STANDARDS
The
utility conforms to the Single UNIX Specification, Version 2. The
option is an extension to the standard.
.SH HISTORY
A
command appeared in Version 6 AT&T UNIX.
.SH AVAILABILITY
The col command is part of the util-linux package and is available from
/Linux\util-linux/\util-linux/
Linux Kernel Archive

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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.

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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
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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
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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
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.

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
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
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1.712 libndp 1.2 :7.el7

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"Source code" for a work means the preferred form of the work for...
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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.

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.

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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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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.

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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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Appendix: How to Apply These Terms to Your New Programs

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possible use to the public, the best way to achieve this is to make it
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<signature of Ty Coon>, 1 April 1989
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1.715 libnfsidmap 0.25 :19.el7

1.715.1 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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1.716 libnl 1.1.4 :3.el7

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Version 3.1, 31 March 2009

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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.

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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.

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 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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END OF TERMS AND CONDITIONS
GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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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.

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Version 3.1, 31 March 2009


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1.727 libselinux 2.5 :14.1.el7
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1.728 libselinux-python-2.5 2.5 :14.1.el7

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1.729 libselinux-utils 2.5 :14.1.el7

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1.730 libsemanage 2.5 :14.el7

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.
If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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1.732 libSM 1.2.2 :2.el7

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1.733 libsmartcols 2.23.2 :59.el7_6.1

1.734 libsmi 0.4.8 :13.el7
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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.huseby@usit.uio.no (Sverre H. Huseby)
Primary-site: http://www.ifi.uio.no/~sverrehu/pub-unix/
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**1.735 libss 1.42.9 :13.el7**

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Theodore Ts'o
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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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Gadi Oxman, August 1995

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<one line to give the program's name and a brief idea of what it does.>
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This is free software, and you are welcome to redistribute it
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be called something other than `show w' and `show c'; they could even be
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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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proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
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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) $(BSD_LIB) \n$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB) \n@-$(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
===================================================================
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+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
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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:

http://sourceforge.net/projects/e2fsprogs

Upstream Author: Theodore Ts'o <tytso@mit.edu>

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1.737 libstdc++ 4.8.5 :36.el7_6.2

1.738 libstdc++-devel 4.8.5 :36.el7_6.2

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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
   that says to advance the location counter by SIZE bytes. */
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), 	.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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@var{one line to give the program's name and a brief idea of what it does.}
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@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@mitame.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 Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(äge@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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#
# 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 + '
')
        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',
        'ltlicense.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':
        return True
    if os.path.exists (base + '.am'):
        return True
    if os.path.exists (base + '.def')
        and os.path.exists (base + '.tpl')):
        return True
    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):

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.
            '(?i:C)opyright
            \[(Cc)opyright\s+%(Cc)\]
            \[(Cc)opyright\s+%s\]
            \[(Cc)opyright\s+©\]
            \[(Cc)opyright\s+@copyright{}\]
            \@[set]s+copyright\[w-.]\)
            '(' + 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.
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(self, 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(self, holder):
    sel.holders[holder] = None

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

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

    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)
# 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)'
eelif 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 range(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 = []

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.
    '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([
        # 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.')
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 ('gnatools')
        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()

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Version 3.1, 31 March 2009

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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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prepared so as to be conveniently linked with application programs
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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
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distribute the source code, even though third parties are not
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A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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

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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.

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.)

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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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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
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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.

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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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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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* m4/ax_func_which_gethostbyname_r.m4

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package gnu.classpath.tools.taglets;

import java.util.Map;

import com.sun.tools.doclets.Taglet;

import com.sun.tools.doclets.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;
            }
        }
        return null;
    }
}

else {
    boolean haveValidTag = false;
    for (int i = 0; i < tags.length && !haveValidTag; ++i) {
        if (tags[i].text().length() > 0) {
            haveValidTag = true;
        }
    }
    return null;
}
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.
 * @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 = -563657022231596674L;

/**
 * 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>.
 *
 * @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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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 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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If distribution of object code is made by offering access to copy
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If such an object file uses only numerical parameters, data
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1.747 libuuid 2.23.2 :59.el7_6.1

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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

<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>__ts_dev__1</td>
<td>2048</td>
<td>4095</td>
<td>1024</td>
<td>83</td>
<td>Linux</td>
</tr>
</tbody>
</table>

Create 2st primary partition
1bebf87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8dff51a88a045db233418dd73fbee 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>
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<tr>
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<td>1024</td>
<td>83</td>
<td>Linux</td>
</tr>
<tr>
<td>__ts_dev__2</td>
<td>4096</td>
<td>20479</td>
<td>8192</td>
<td>a5</td>
<td>FreeBSD</td>
</tr>
</tbody>
</table>

Create default BSD
2e1cee529cb59e9341afe0443f196a1 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  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 [fsise bsize  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)
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1.752 libXau 1.0.8 :2.1.el7

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1.754 libxcb 1.13 :1.el7

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1.759 libXfont2 2.0.3 :1.el7

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1.761 libXi 1.7.9 :1.el7

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1.768 libXpm 3.5.12 :1.el7

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FILE: LLM_sp_sha2.c

FILE: sha2.h
AUTHOR: Aaron D. Gifford <me@aarongifford.com>

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===============================================================================
2.

utility to create the register check tables
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===============================================================================

3.

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* =---------------------------------------------------------------------
* /
* File Name list: aes.h, aes_locl.h

============================================================================

4.

/* crypto/aes/aes_core.c -*- mode:C; c-file-style: "eay" -*- */
/**
* rijndael-alg-fst.c
* *
* @version 3.0 (December 2000) */
* Optimised ANSI C code for the Rijndael cipher (now AES)
*
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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*/

File: aes_core.c

===============================================================================

5.

/*===========================================================================
EDIT HISTORY FOR FILE

$Header: //depot/asic/msmshared/sec/sec/MSM_SEC.03.03.08.xx/aes.h#1 $ $Date: 2006/12/11 00:43:21 $ $Author: davidf $
when who what, where, why
-------- --- -------------------------------
11/12/04 rv changes to correct LINT errors
02/02/04 rwh Small mods to open source.

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about the use to which it is being put.
*/
This is an implementation of the AES encryption algorithm (Rijndael) designed by Joan Daemen and Vincent Rijmen. This version is designed to provide both fixed and dynamic block and key lengths and can also run with either big or little endian internal byte order.

NOTE: Input block and key lengths are given in terms of the lengths of the byte arrays involved, the legal values being 16, 24 and 32.

A. THE CIPHER INTERFACE

byte (an unsigned 8-bit type)  
word (an unsigned 32-bit type)  
aes_ret: (a signed 16 bit type for function return values)  
aes_good (value != 0, a good return)  
aes_bad (value == 0, an error return)  
enum aes_key: (encryption direction)  
enc (set key for encryption)  
dec (set key for decryption)  
both (set key for both)  
class or struct aes (structure for context)

C subroutine calls:

aes_ret set_blk(const word block_length, aes *cx) (variable block size)  
aes_ret set_key(const byte key[], const word key_length,  
const enum aes_key direction, aes *cx)  
aes_ret encrypt(const byte input_blk[], byte output_blk[], const aes *cx)  
aes_ret decrypt(const byte input_blk[], byte output_blk[], const aes *cx)

IMPORTANT NOTE: If you are using this C interface and your compiler does not set the memory used for objects to zero before use, you will need to ensure that cx.mode is set to zero before using the C subroutine calls.

C++ aes class subroutines:

aes_ret set_blk(const word block_length) (variable block size)  
aes_ret set_key(const byte key[], const word key_length,  
const aes_key direction)  
aes_ret encrypt(const byte input_blk[], byte output_blk[]) const  
aes_ret decrypt(const byte input_blk[], byte output_blk[]) const

The block length inputs to set_block and set_key are in numbers of BYTES, not bits. The calls to subroutines must be made in the above order but multiple calls can be made without repeating earlier calls if their parameters have not changed. If the cipher block length is variable but set_blk has not been called before cipher operations a
value of 16 is assumed (that is, the AES block size). In contrast to earlier versions the block and key length parameters are now checked for correctness and the encryption and decryption routines check to ensure that an appropriate key has been set before they are called.

B. BYTE ORDER WITHIN 32 BIT WORDS

The fundamental data processing units in Rijndael are 8-bit bytes. The input, the output and the key input are all enumerated arrays of bytes in which bytes are numbered starting at zero and increasing to one less than the number of bytes in the array in question. When these inputs and outputs are considered as bit sequences, the n'th byte contains bits 8n to 8n+7 of the sequence with the lower numbered bit mapped to the most significant bit within the byte (i.e. that having a numeric value of 128). However, Rijndael can be implemented more efficiently using 32-bit words to process 4 bytes at a time provided that the order of bytes within words is known. This order is called big-endian if the lowest numbered bytes in words have the highest numeric significance and little-endian if the opposite applies. This code can work in either order irrespective of the native order of the machine on which it runs. The byte order used internally is set by defining INTERNAL_BYTE_ORDER whereas the order for all inputs and outputs is specified by defining EXTERNAL_BYTE_ORDER, the only purpose of the latter being to determine if a byte order change is needed immediately after input and immediately before output to account for the use of a different internal byte order. In almost all situations both of these defines will be set to the native order of the processor on which the code is to run but other settings may sometimes be useful in special circumstances.

#define INTERNAL_BYTE_ORDER LITTLE_ENDIAN
#define EXTERNAL_BYTE_ORDER LITTLE_ENDIAN

C. COMPILATION

To compile AES (Rijndael) for use in C code
a. Exclude the AES_DLL define in aes.h
b. Exclude the AES_IN_CPP define in aes.h

To compile AES (Rijndael) for use in C++ code
a. Exclude the AES_DLL define in aes.h
b. Include the AES_IN_CPP define in aes.h

To compile AES (Rijndael) in C as a Dynamic Link Library
a. Include the AES_DLL define in aes.h
b. Compile the DLL. If using the test files, exclude aes.c from the test build project and compile it with the same defines as used for the DLL (ensure that the DLL path is correct)
D. CONFIGURATION OPTIONS (see also aes.c)

1. define BLOCK_SIZE to set the cipher block size (16, 24 or 32) or leave this undefined for dynamically variable block size (this will result in much slower code).
2. set AES_IN_CPP to use the code from C++ rather than C
3. set AES_DLL if AES (Rijndael) is to be compiled to a DLL
4. set INTERNAL_BYTE_ORDER to one of the above constants to set the internal byte order (the order used within the algorithm code)
5. set EXTERNAL_BYTE_ORDER to one of the above constants to set the byte order used at the external interfaces for the input, output and key byte arrays.

IMPORTANT NOTE: BLOCK_SIZE is in BYTES: 16, 24, 32 or undefined for aes.c and 16, 20, 24, 28, 32 or undefined for aes++.c. If left undefined a slower version providing variable block length is compiled

#define BLOCK_SIZE 16

Define AES_IN_CPP if you intend to use the AES C++ class rather than the C code directly.

#define AES_IN_CPP

Define AES_DLL if you wish to compile the code to produce a Windows DLL

#define AES_DLL

*/

File: aes.h

/*===========================================================================
EDIT HISTORY FOR FILE

$Header: //depot/asic/msmshared/sec/sec/MSM_SEC.03.03.08.xx/aes_tab.h#1 $ $DateTime: 2006/12/11 00:43:21 $ $Author: davidf $
when who what, where, why
-------- --- ----------------------------------------------------------
11/12/04 rv changes to correct LINT errors
02/02/04 rwh Small mods to open source.

===========================================================================

/*lint -e146 -e303 */
/* 146: Assuming a binary constant */
/* 303: String too long (try +macros) */
/*
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   Dr B. R. Gladman <brg@gladman.uk.net> 1st June 2001.
   */

File: aes_tab.h

FILE:Conftest.py
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#
#
# The purpose of this module is to define how a check is to be performed.
# Use one of the Check...() functions below.
#
#
# A context class is used that defines functions for carrying out the tests,
# logging and messages. The following methods and members must be present:
# context.Display(msg) Function called to print messages that are normally
displayed for the user. Newlines are explicitly used.
# The text should also be written to the logfile!
#
# context.Log(msg) Function called to write to a log file.
#
# context.BuildProg(text, ext)
# Function called to build a program, using "ext" for the
# file extension. Must return an empty string for
# success, an error message for failure.
# For reliable test results building should be done just
# like an actual program would be built, using the same
# command and arguments (including configure results so
# far).
#
# context.CompileProg(text, ext)
# Function called to compile a program, using "ext" for
# the file extension. Must return an empty string for
# success, an error message for failure.
# For reliable test results compiling should be done just
# like an actual source file would be compiled, using the
# same command and arguments (including configure results
# so far).
#
# context.AppendLIBS(lib_name_list)
# Append "lib_name_list" to the value of LIBS.
# "lib_name_list" is a list of strings.
# Return the value of LIBS before changing it (any type
# can be used, it is passed to SetLIBS() later.)
#
# context.PrependLIBS(lib_name_list)
# Prepend "lib_name_list" to the value of LIBS.
# "lib_name_list" is a list of strings.
# Return the value of LIBS before changing it (any type
# can be used, it is passed to SetLIBS() later.)
#
# context.SetLIBS(value)
# Set LIBS to "value". The type of "value" is what
# AppendLIBS() returned.
# Return the value of LIBS before changing it (any type
# can be used, it is passed to SetLIBS() later.)
#
# context.headerfilename
# Name of file to append configure results to, usually
# "confdefs.h".
# The file must not exist or be empty when starting.
# Empty or None to skip this (some tests will not work!).
#
# context.config_h      (may be missing). If present, must be a string, which
# will be filled with the contents of a config_h file.
#
# context.vardict       Dictionary holding variables used for the tests and
# stores results from the tests, used for the build
# commands.
# Normally contains "CC", "LIBS", "CPPFLAGS", etc.
#
# context.havedict      Dictionary holding results from the tests that are to
# be used inside a program.
# Names often start with "HAVE_". These are zero
# (feature not present) or one (feature present). Other
# variables may have any value, e.g., "PERLVERSION" can
#
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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.3, July 18th, 2005

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The data format used by the zlib library is described by RFCs (Request for
Comments) 1950 to 1952 in the files http://www.ietf.org/rfc/rfc1950.txt
(zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).
*/

/*------------------------------------------------------------------------------
//
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//
//
/*
 * This code implements the MD5 message-digest algorithm.
 * The algorithm is due to Ron Rivest. This code was
 * written by Colin Plumb in 1993, no copyright is claimed.
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 * Equivalent code is available from RSA Data Security, Inc.
 * This code has been tested against that, and is equivalent,
 * except that you don't need to include two pages of legalese
 * with every copy.
 * To compute the message digest of a chunk of bytes, declare an
 * MD5Context structure, pass it to MD5Init, call MD5Update as
 * needed on buffers full of bytes, and then call MD5Final, which
 * will fill a supplied 16-byte array with the digest.
*/

/*------------------------------------------------------------------------------

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/*-. *
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 * code or tables extracted from it, as desired without restriction.
 *
 * First, the polynomial itself and its table of feedback terms. The
 * polynomial is
 * X^32+X^26+X^23+X^22+X^16+X^12+X^11+X^10+X^8+X^7+X^5+X^4+X^2+X^1+X^0
 * * Note that we take it "backwards" and put the highest-order term in
 * the lowest-order bit. The X^32 term is "implied"; the LSB is the
 * X^31 term, etc. The X^0 term (usually shown as "+1") results in
 * the MSB being 1
 *
 * Note that the usual hardware shift register implementation, which
 * is what we're using (we're merely optimizing it by doing eight-bit
 * chunks at a time) shifts bits into the lowest-order term. In our
 * implementation, that means shifting towards the right. Why do we
 * do it this way? Because the calculated CRC must be transmitted in
 * order from highest-order term to lowest-order term. UARTs transmit
characters in order from LSB to MSB. By storing the CRC this way
we hand it to the UART in the order low-byte to high-byte; the UART
sends each low-bit to high-bit; and the result is transmission bit
by bit from highest- to lowest-order term without requiring any bit
shuffling on our part. Reception works similarly

* The feedback terms table consists of 256, 32-bit entries. Notes
*  
* The table can be generated at runtime if desired; code to do so
*  is shown later. It might not be obvious, but the feedback
terms simply represent the results of eight shift/xor opera
tions for all combinations of data and CRC register values
*  
The values must be right-shifted by eight bits by the "updcrc
logic; the shift must be unsigned (bring in zeroes). On some
hardware you could probably optimize the shift in assembler by
using byte-swap instructions
*  polynomial Sedb88320
*  

The AES algorithm Rijndael implemented for block and key sizes of 128,
192 and 256 bits (16, 24 and 32 bytes) by Brian Gladman.

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about the use to which it is being put. I am grateful to Frank Yellin
for some ideas that are used in this implementation.

Dr B. R. Gladman <brg@gladman.uk.net> 1st June 2001.

hash_32 - 32 bit Fowler/Noll/Vo hash code
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* Fowler/Noll/Vo hash
*  
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*-------------------------------------------------------------------------------
*/
* sha1.c
*
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*
* Modified by Aaron D. Gifford <agifford@infowest.com>
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/*
* AES-based functions
*
* - AES Key Wrap Algorithm (128-bit KEK) (RFC3394)
* - One-Key CBC MAC (OMAC1) hash with AES-128
* - AES-128 CTR mode encryption
* - AES-128 EAX mode encryption/decryption
* - AES-128 CBC
*
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/****************************************************************************
* hmac_sha1.c
*
* Version 1.0.0
*
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Heitmueller <dheitmueller@kernellabs.com> on January 15, 2010.

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agere_sta_fw.bin -- 9.48 Hermes I
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Hope this helps.

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author: Monty <xiphmont@mit.edu>
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These Fourier routines were originally based on the Fourier routines of the same names from the NETLIB bihar and fftpack fortran libraries developed by Paul N. Swarztrauber at the National Center for Atmospheric Research in Boulder, CO USA. They have been reimplemented in C and optimized in a few ways for OggSquish. */

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The README file from the original package from Micronas appears below. Only the part about the firmware redistribution in section 0 is relevant, all other sections are completely obsolete.

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

WIS GO7007SB Public Linux Driver

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

*** Please see the file RELEASE-NOTES for important last-minute updates ***

0. OVERVIEW AND LICENSING/DISCLAIMER

This driver kit contains Linux drivers for the WIS GO7007SB multi-format video encoder. Only kernel version 2.6.x is supported. The video stream is available through the Video4Linux2 API and the audio stream is available through the ALSA API (or the OSS emulation layer of the ALSA system).

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1. SYSTEM REQUIREMENTS

This driver requires Linux kernel 2.6. Kernel 2.4 is not supported. Using kernel 2.6.10 or later is recommended, as earlier kernels are known to have unstable USB 2.0 support.

A fully built kernel source tree must be available. Typically this will be linked from "/lib/modules/<KERNEL VERSION>/build" for convenience. If this link does not exist, an extra parameter will need to be passed to the `make` command.

All vendor-built kernels should already be configured properly. However, for custom-built kernels, the following options need to be enabled in the kernel as built-in or modules:

- CONFIG_HOTPLUG - Support for hot-pluggable devices
- CONFIG_MODULES - Enable loadable module support
- CONFIG_KMOD - Automatic kernel module loading
- CONFIG_FW_LOADER - Hotplug firmware loading support
- CONFIG_I2C - I2C support
- CONFIG_VIDEO_DEV - Video For Linux
- CONFIG_SOUND - Sound card support
- CONFIG_SND - Advanced Linux Sound Architecture
- CONFIG_USB - Support for Host-side USB
- CONFIG_USBDEVICEFS - USB device filesystem
- CONFIG_USB_EHCI_HCD - EHCI HCD (USB 2.0) support

Additionally, to use the example application, the following options need to be enabled in the ALSA section:

- CONFIG_SND_MIXER_OSS - OSS Mixer API
- CONFIG_SND_PCM_OSS - OSS PCM (digital audio) API

The hotplug scripts, along with the fxload utility, must also be installed.
These scripts can be obtained from <http://linux-hotplug.sourceforge.net/>.
Hotplugging is used for loading firmware into the Cypress EZ-USB chip using
fxload and for loading firmware into the driver using the firmware agent.

2. COMPILING AND INSTALLING THE DRIVER

Most users should be able to compile the driver by simply running:

$ make

in the top-level directory of the driver kit. First the kernel modules
will be built, followed by the example applications.

If the build system is unable to locate the kernel source tree for the
currently-running kernel, or if the module should be built for a kernel
other than the currently-running kernel, an additional parameter will need
to be passed to make to specify the appropriate kernel source directory:

$ make KERNELSRC=/usr/src/linux-2.6.10-custom3

Once the compile completes, the driver and firmware files should be
installed by running:

$ make install

The kernel modules will be placed in "/lib/modules/<KERNEL VERSION>/extra"
and the firmware files will be placed in the appropriate hotplug firmware
directory, usually /lib/firmware. In addition, USB maps and scripts will
be placed in /etc/hotplug/usb to enable fxload to initialize the EZ-USB
control chip when the device is connected.

3. PAL/SECAM TUNER CONFIGURATION (TV402U-EU only)

The PAL model of the Plextor ConvertX TV402U may require additional
configuration to correctly select the appropriate TV frequency band and
audio subchannel.

Users with a device other than the Plextor ConvertX TV402U-EU should skip
this section.

The wide variety of PAL TV systems used in Europe requires that additional
information about the local TV standards be passed to the driver in order
to properly tune TV channels. The two necessary parameters are (a) the PAL
TV band, and (b) the audio subchannel format in use.
In many cases, the appropriate TV band selection is passed to the driver from applications. However, in some cases, the application only specifies that the driver should use PAL but not the specific information about the appropriate TV band. To work around this issue, the correct TV band may be specified in the "force_band" parameter to the wis-sony-tuner module:

<table>
<thead>
<tr>
<th>TV band</th>
<th>force_band</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAL B/G</td>
<td>B</td>
</tr>
<tr>
<td>PAL I</td>
<td>I</td>
</tr>
<tr>
<td>PAL D/K</td>
<td>D</td>
</tr>
<tr>
<td>SECAM L</td>
<td>L</td>
</tr>
</tbody>
</table>

If the "force_band" parameter is specified, the driver will ignore any TV band specified by applications and will always use the band provided in the module parameter.

The other parameter that can be specified is the audio subchannel format. There are several stereo audio carrier systems in use, including NICAM and three varieties of A2. To receive audio broadcast on one of these stereo carriers, the "force_mpx_mode" parameter must be specified to the wis-sony-tuner module.

<table>
<thead>
<tr>
<th>TV band</th>
<th>Audio subcarrier</th>
<th>force_mpx_mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAL B/G</td>
<td>Mono (default)</td>
<td>1</td>
</tr>
<tr>
<td>PAL B/G</td>
<td>A2</td>
<td>2</td>
</tr>
<tr>
<td>PAL B/G</td>
<td>NICAM</td>
<td>3</td>
</tr>
<tr>
<td>PAL I</td>
<td>Mono (default)</td>
<td>4</td>
</tr>
<tr>
<td>PAL I</td>
<td>NICAM</td>
<td>5</td>
</tr>
<tr>
<td>PAL D/K</td>
<td>Mono (default)</td>
<td>6</td>
</tr>
<tr>
<td>PAL D/K</td>
<td>A2 (1)</td>
<td>7</td>
</tr>
<tr>
<td>PAL D/K</td>
<td>A2 (2)</td>
<td>8</td>
</tr>
<tr>
<td>PAL D/K</td>
<td>A2 (3)</td>
<td>9</td>
</tr>
<tr>
<td>PAL D/K</td>
<td>NICAM</td>
<td>10</td>
</tr>
<tr>
<td>SECAM L</td>
<td>Mono (default)</td>
<td>11</td>
</tr>
<tr>
<td>SECAM L</td>
<td>NICAM</td>
<td>12</td>
</tr>
</tbody>
</table>

If the "force_mpx_mode" parameter is not specified, the correct mono-only mode will be chosen based on the TV band. However, the tuner will not receive stereo audio or bilingual broadcasts correctly.

To pass the "force_band" or "force_mpx_mode" parameters to the wis-sony-tuner module, the following line must be added to the modprobe configuration file, which varies from one Linux distribution to another.

```
options wis-sony-tuner force_band=B force_mpx_mode=2
```
The above example would force the tuner to the PAL B/G TV band and receive stereo audio broadcasts on the A2 carrier.

To verify that the configuration has been placed in the correct location, execute:

```
$ modprobe -c | grep wis-sony-tuner
```

If the configuration line appears, then modprobe will pass the parameters correctly the next time the wis-sony-tuner module is loaded into the kernel.

4. TESTING THE DRIVER

Because few Linux applications are able to correctly capture from Video4Linux2 devices with only compressed formats supported, the new driver should be tested with the "gorecord" application in the apps/ directory.

First connect a video source to the device, such as a DVD player or VCR. This will be captured to a file for testing the driver. If an input source is unavailable, a test file can still be captured, but the video will be black and the audio will be silent.

This application will auto-detect the V4L2 and ALSA/OSS device names of the hardware and will record video and audio to an AVI file for a specified number of seconds. For example:

```
$ apps/gorecord -duration 60 capture.avi
```

If this application does not successfully record an AVI file, the error messages produced by gorecord and recorded in the system log (usually in /var/log/messages) should provide information to help resolve the problem.

Supplying no parameters to gorecord will cause it to probe the available devices and exit. Use the -help flag for usage information.

5. USING THE DRIVER

The V4L2 device implemented by the driver provides a standard compressed format API, within the following criteria:

* Applications that only support the original Video4Linux1 API will not be able to communicate with this driver at all.
* No raw video modes are supported, so applications like xawtv that expect only uncompressed video will not function.

* Supported compression formats are: Motion-JPEG, MPEG1, MPEG2 and MPEG4.

* MPEG video formats are delivered as Video Elementary Streams only. Program Stream (PS), Transport Stream (TS) and Packetized Elementary Stream (PES) formats are not supported.

* Video parameters such as format and input port may not be changed while the encoder is active.

* The audio capture device only functions when the video encoder is actively capturing video. Attempts to read from the audio device when the encoder is inactive will result in an I/O error.

* The native format of the audio device is 48Khz 2-channel 16-bit little-endian PCM, delivered through the ALSA system. No audio compression is implemented in the hardware. ALSA may convert to other uncompressed formats on the fly.

The include/ directory contains a C header file describing non-standard features of the GO7007SB encoder, which are described below:

GO7007IOC_S_COMP_PARAMS, GO7007IOC_G_COMP_PARAMS

These ioctls are used to negotiate general compression parameters.

To query the current parameters, call the GO7007IOC_G_COMP_PARAMS ioctl with a pointer to a struct go7007_comp_params. If the driver is not set to MPEG format, the EINVAL error code will be returned.

To change the current parameters, initialize all fields of a struct go7007_comp_params and call the GO7007_IOC_S_COMP_PARAMS ioctl with a pointer to this structure. The driver will return the current parameters with any necessary changes to conform to the limitations of the hardware or current compression mode. Any or all fields can be set to zero to request a reasonable default value. If the driver is not set to MPEG format, the EINVAL error code will be returned. When I/O is in progress, the EBUSY error code will be returned.

Fields in struct go7007_comp_params:

```
__u32 gop_size    // The maximum number of frames in each Group Of Pictures; i.e. the maximum number of frames minus one between
```
each key frame.

```c
__u32 max_b_frames  // The maximum number of sequential bidirectionally-predicted frames.
(B-frames are not yet supported.)
```

```c
enum go7007_aspect_ratio  // The aspect ratio to be encoded in the meta-data of the compressed format.

Choices are:
- GO7007_ASPECT_RATIO_1_1
- GO7007_ASPECT_RATIO_4_3_NTSC
- GO7007_ASPECT_RATIO_4_3_PAL
- GO7007_ASPECT_RATIO_16_9_NTSC
- GO7007_ASPECT_RATIO_16_9_PAL

__u32 flags  // Bit-wise OR of control flags (below)
```

Flags in struct go7007_comp_params:

```c
GO7007_COMP_CLOSED_GOP  // Only produce self-contained GOPs, used to produce streams appropriate for random seeking.

GO7007_COMP_OMIT_SEQ_HEADER  // Omit the stream sequence header.
```

**GO7007IOC_S_MPEG_PARAMS, GO7007IOC_G_MPEG_PARAMS**

These ioctl's are used to negotiate MPEG-specific stream parameters when the pixelformat has been set to V4L2_PIX_FMT_MPEG.

To query the current parameters, call the GO7007IOC_G_MPEG_PARAMS ioctl with a pointer to a struct go7007_mpeg_params. If the driver is not set to MPEG format, the EINVAL error code will be returned.

To change the current parameters, initialize all fields of a struct go7007_mpeg_params and call the GO7007_IOC_S_MPEG_PARAMS ioctl with a pointer to this structure. The driver will return the current parameters with any necessary changes to conform to the limitations of the hardware or selected MPEG mode. Any or all fields can be set to zero to request a reasonable default value. If the driver is not set to MPEG format, the EINVAL error code will be returned. When I/O is in progress, the EBUSY error code will be returned.

Fields in struct go7007_mpeg_params:
enum go7007_mpeg_video_standard
mpeg_video_standard The MPEG video standard in which to compress the video.

Choices are:
GO7007_MPEG_VIDEO_MPEG1
GO7007_MPEG_VIDEO_MPEG2
GO7007_MPEG_VIDEO_MPEG4

__u32 flags
__u32 flags Bit-wise OR of control flags (below)

__u32 pali The profile and level indication to be stored in the sequence header. This is only used as an indicator to the decoder, and does not affect the MPEG features used in the video stream. Not valid for MPEG1.

Choices for MPEG2 are:
GO7007_MPEG2_PROFILE_MAIN_MAIN

Choices for MPEG4 are:
GO7007_MPEG4_PROFILE_S_L0
GO7007_MPEG4_PROFILE_S_L1
GO7007_MPEG4_PROFILE_S_L2
GO7007_MPEG4_PROFILE_S_L3
GO7007_MPEG4_PROFILE_ARTS_L1
GO7007_MPEG4_PROFILE_ARTS_L2
GO7007_MPEG4_PROFILE_ARTS_L3
GO7007_MPEG4_PROFILE_ARTS_L4
GO7007_MPEG4_PROFILE_AS_L0
GO7007_MPEG4_PROFILE_AS_L1
GO7007_MPEG4_PROFILE_AS_L2
GO7007_MPEG4_PROFILE_AS_L3
GO7007_MPEG4_PROFILE_AS_L4

Flags in struct go7007_mpeg_params:

GO7007_MPEG_FORCE_DVD_MODE Force all compression parameters and bitrate control settings to comply with DVD MPEG2 stream requirements. This overrides most compression and bitrate settings!

GO7007_MPEG_OMIT_GOP_HEADER Omit the GOP header.
GO7007_MPEG_REPEAT_SEQHEADER Repeat the MPEG sequence header at the start of each GOP.

GO7007IOC_S_BITRATE, GO7007IOC_G_BITRATE

These ioctlls are used to set and query the target bitrate value for the compressed video stream. The bitrate may be selected by storing the target bits per second in an int and calling GO7007IOC_S_BITRATE with a pointer to the int. The bitrate may be queried by calling GO7007IOC_G_BITRATE with a pointer to an int where the current bitrate will be stored.

Note that this is the primary means of controlling the video quality for all compression modes, including V4L2_PIX_FMT_MJPEG. The VIDIOC_S_JPEGCOMP ioctl is not supported.

Installing the WIS PCI Voyager Driver

The WIS PCI Voyager driver requires several patches to the Linux 2.6.11.x kernel source tree before compiling the driver. These patches update the in-kernel SAA7134 driver to the newest development version and patch bugs in the TDA8290/TDA8275 tuner driver.

The following patches must be downloaded from Gerd Knorr's website and applied in the order listed:

http://dl.bytesex.org/patches/2.6.11-2/i2c-tuner
http://dl.bytesex.org/patches/2.6.11-2/i2c-tuner2
http://dl.bytesex.org/patches/2.6.11-2/v4l2-api-mpeg
http://dl.bytesex.org/patches/2.6.11-2/saa7134-update

The following patches are included with this SDK and can be applied in any order:

patches/2.6.11/saa7134-voyager.diff
patches/2.6.11/tda8275-newaddr.diff
patches/2.6.11/tda8290-ntsc.diff

Check to make sure the CONFIG_VIDEO_SAA7134 option is enabled in the kernel configuration, and build and install the kernel.

After rebooting into the new kernel, the GO7007 driver can be compiled and installed:
$ make SAA7134_BUILD=y
$ make install
$ modprobe saa7134-go7007

There will be two V4L video devices associated with the PCI Voyager. The first device (most likely /dev/video0) provides access to the raw video capture mode of the SAA7133 device and is used to configure the source video parameters and tune the TV tuner. This device can be used with xawtv or other V4L(2) video software as a standard uncompressed device.

The second device (most likely /dev/video1) provides access to the compression functions of the GO7007. It can be tested using the gorecord application in the apps/ directory of this SDK:

$ apps/gorecord -device /dev/video1 -noaudio test.avi

Currently the frame resolution is fixed at 720x480 (NTSC) or 720x576 (PAL), and the video standard must be specified to both the raw and the compressed video devices (xawtv and gorecord, for example).

------------------------------------------------------------------------
RELEASE NOTES FOR WIS GO7007SB LINUX DRIVER
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Last updated: 5 November 2005

- Release 0.9.7 includes new support for using udev to run fxload. The install script should automatically detect whether the old hotplug scripts or the new udev rules should be used. To force the use of hotplug, run "make install USE_UDEV=n". To force the use of udev, run "make install USE_UDEV=y".

- Motion detection is supported but undocumented. Try the `modet` app for a demonstration of how to use the facility.

- Using USB2.0 devices such as the TV402U with USB1.1 HCDs or hubs can cause buffer overruns and frame drops, even at low framerates, due to inconsistency in the bitrate control mechanism.

- On devices with an SAA7115, including the Plextor ConvertX, video height values of 96, 128, 160, 192, 256, 320, and 384 do not work in NTSC mode. All valid heights up to 512 work correctly in PAL mode.

- The WIS Star Trek and PCI Voyager boards have no support yet for audio or the TV tuner.

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Firmware provided by Patrick Boettcher <pboettcher@dibcom.fr> to Devin Heitmueller <dheitmueller@kernellabs.com> on October 8, 2009.

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1.780 linuxconsoletools 1.4.5 :3.el7

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Here is a list of the main contributors to lm-sensors version 3.

* Frodo Looijaard
  Original author oflibsensors, sensors-detect, sensors and isadump.
* Merlin Hughes
Original author of sensord.
* Bob Schlaermann
  Dynamic chip feature detection (a.k.a. generic chip support) in
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* Mark M. Hoffman
  Many improvements to the libsensors configuration file scanner.
* Jean Delvare
  New libsensors API, and migration of sensors and sensord thereto.
  Many optimizations in libsensors and sensors.
  Configuration file converter.
  Rewrite of sensors-detect.
  Support for multiple configuration files in libsensors.

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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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(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.

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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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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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Ty Coon, President of Vice
That's all there is to it!

1.802 mariadb-libs 5.5.60 :1.el7_5
1.802.1 Available under license:

```
# Variable Name: license
# Scope: Global
# Access Type: Static
# Data Type: string
#
# Creation Date: 2008-02-07
# Author: Sharique Abdullah
#
# Description: Test Cases of Dynamic System Variable license
#              that checks the behavior of this variable in the following ways
#              * Value Check
#              * Scope Check
#

--echo '#---------------------BS_STVARS_040_01----------------------#'  
--echo '# Displaying default value'  
SELECT COUNT(@@GLOBAL.license);  
--echo 1 Expected

--error ER_INCORRECT_GLOBAL_LOCAL_VAR
SET @@GLOBAL.license=1;  
--echo Expected error 'Read only variable'
SELECT COUNT(@@GLOBAL.license);
```
SELECT @@GLOBAL.license = VARIABLE_VALUE
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
--echo 1 Expected

SELECT COUNT(@@GLOBAL.license);
--echo 1 Expected

SELECT COUNT(VARIABLE_VALUE)
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
--echo 1 Expected

SELECT @@license = @@GLOBAL.license;
--echo 1 Expected

SELECT COUNT(@@license);
--echo 1 Expected

--Error ER_INCORRECT_GLOBAL_LOCAL_VAR
SELECT COUNT(@@local.license);
--echo Expected error 'Variable is a GLOBAL variable'

--Error ER_INCORRECT_GLOBAL_LOCAL_VAR
SELECT COUNT(@@SESSION.license);

--echo 1 Expected

--Error ER_INCORRECT_GLOBAL_LOCAL_VAR
SELECT COUNT(@@SESSION.license);
SELECT COUNT(@GLOBAL.license);
--echo 1 Expected

--Error ER_BAD_FIELD_ERROR
SELECT license = @SESSION.license;
--echo Expected error 'Readonly variable'
'#-------------------------------------------------------------------------------BS_STVARS_040_01#-------------------------------------------------------------------------------#'
SELECT COUNT(@GLOBAL.license);
COUNT(@GLOBAL.license)
1
1 Expected

'#-------------------------------------------------------------------------------BS_STVARS_040_02#-------------------------------------------------------------------------------#'
SET @GLOBAL.license=1;
ERROR HY000: Variable 'license' is a read only variable
Expected error 'Read only variable'
SELECT COUNT(@GLOBAL.license);
COUNT(@GLOBAL.license)
1
1 Expected

'#-------------------------------------------------------------------------------BS_STVARS_040_03#-------------------------------------------------------------------------------#'
SELECT @GLOBAL.license = VARIABLE_VALUE
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
@GLOBAL.license = VARIABLE_VALUE
1
1 Expected
SELECT COUNT(@GLOBAL.license);
COUNT(@GLOBAL.license)
1
1 Expected

SELECT COUNT(VARIABLE_VALUE)
FROM INFORMATION_SCHEMA.GLOBAL_VARIABLES
WHERE VARIABLE_NAME='license';
COUNT(VARIABLE_VALUE)
1
1 Expected

'#-------------------------------------------------------------------------------BS_STVARS_040_04#-------------------------------------------------------------------------------#'
SELECT @license = @GLOBAL.license;
@license = @GLOBAL.license
1
1 Expected

'#-------------------------------------------------------------------------------BS_STVARS_040_05#-------------------------------------------------------------------------------#'
SELECT COUNT(@license);
COUNT(@license)
1
1 Expected
SELECT COUNT(@@local.license);
ERROR HY000: Variable 'license' is a GLOBAL variable
Expected error 'Variable is a GLOBAL variable'
SELECT COUNT(@@SESSION.license);
ERROR HY000: Variable 'license' is a GLOBAL variable
Expected error 'Variable is a GLOBAL variable'
SELECT COUNT(@@GLOBAL.license);
COUNT(@@GLOBAL.license)
1
1 Expected
SELECT license = @@SESSION.license;
ERROR 42S22: Unknown column 'license' in 'field list'
Expected error 'Readonly variable'

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Version 2, June 1991

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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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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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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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The Debian package of MySQL was first debianzed on 1997-04-12 by Christian
Schwarz <schwarz@debian.org> and is maintained since 1999-04-20 by Christian Hammers <ch@debian.org>.

The MariaDB packages were initially made by http://ourdelta.org/, and are now managed by the MariaDB development team, maria-developers@lists.launchpad.net

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1.806 mesa-libGL 18.0.5 :4.el7_6
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<html lang="en">
<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>
</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.

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```
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```
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<h1>Mesa Component Licenses</h1>

<pre>
Component   Location               License
------------------------------------------------------------------
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 emulation include/c11/threads*.h Boost (permissive)
</pre>

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</div>
</body>
</html>
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
ABCDEFGHIJKMLNOPQRSTUVWXYZ
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..--
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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
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>
Sent: January 8, 2013 6:30 PM
To: jorge@iryoku.com
Subject: Question about Mesa MLAA license

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

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1.815 microcodeCtl 2.1 :47.el7

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This updated microcode supersedes microcode provided by Red Hat with the CVE-2017-5715 (Spectre) CPU branch injection vulnerability mitigation.

Historically, Red Hat has provided updated microcode, developed by our microprocessor partners, as a customer convenience. Red Hat had temporarily suspended this practice while microcode stabilized. Red Hat is once again providing an updated Intel microcode package.
(microcode_ctl) and AMD microcode package (linux-firmware) to customers in order to simplify deployment processes and minimize downtime. Well continue to update these microcode packages as necessary. Please contact your hardware vendor to determine whether more recent BIOS/firmware updates are recommended because additional improvements may be available.

This kbase https://access.redhat.com/articles/3436091 includes a table that maps Intel and AMD CPU processor code family names to updated Intel and AMD microcode package versions.

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/**
 * NTLMResponses.java - Calculates the various Type 3 responses. Needs an MD4, MD5 and DES crypto provider (Please note that default provider doesn't provide MD4).
 * @see http://curl.haxx.se/rfc/ntlm.html
 * @author <a href="http://mina.apache.org">Apache MINA Project</a>
 * @since MINA 2.0.0-M3
 */

1.817 mockito-all 1.8.2

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```
@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:
#!/bin/sh

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# ck-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]"`

er=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" ;;
      */mparam.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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1.824 naming-factory 5.5.23

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1.834 net-snmp-libs 5.7.2 :37.el7

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* 
* PKCS #5 PBKDF2 used with HMAC-SHA256, see RFC 2898.
* /

/* nettle, low-level cryptographics library */
* 
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* 
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* /
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*/

1.838 nettle/gplv2 2.7.1 :8.el7

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* */
/* 
* nm-online.c - Are we online? 
* 
* Return values: 
* 
* 0: already online or connection established within given timeout 
* 1: offline or not online within given timeout 
* 2: unspecified error 
* 
* Robert Love <rml@novell.com> 
*/

#include "nm-default.h"

#include <stdio.h>
#include <stdlib.h>
#include <getopt.h>
#include <locale.h>

#define PROGRESS_STEPS 15
#define EXIT_FAILURE_OFFLINE     1
#define EXIT_FAILURE_ERROR       2
#define EXIT_FAILURE_LIBNM_BUG   42
#define EXIT_FAILURE_UNSPECIFIED 43

typedef struct
{
    GMainLoop *loop;
    NMClient *client;
    GCancellable *client_new_cancellable;
    guint client_new_timeout_id;
    guint handle_timeout_id;
    gulong client_notify_id;
    gboolean exit_no_nm;
    gboolean wait_startup;
    gboolean quiet;
    gint64 start_timestamp_ms;
    gint64 end_timestamp_ms;
    gint64 progress_step_duration;
    int retval;
} OnlineData;

static gint64
_now_ms (void)
{
    return g_get_monotonic_time () / (G_USEC_PER_SEC / 1000);
static void
_return (OnlineData *data, int retval)
{
  nm_assert (data);
  nm_assert (data->retval == EXIT_FAILURE_UNSPECIFIED);

data->retval = retval;
  nm_clear_g_signal_handler (data->client, &data->client_notify_id);
  g_main_loop_quit (data->loop);
}

static void
_print_progress (int progress_next_step_i, gint64 remaining_ms, int success)
{
  int i, j;

  j = progress_next_step_i < 0 ? PROGRESS_STEPS : progress_next_step_i;

  g_print ("\r%s", _("Connecting");
  for (i = 0; i < PROGRESS_STEPS; i++)
    putchar (i < j ? '.' : ':');
  g_print (" %4lds", (long) (MAX (0, remaining_ms + 999) / 1000));
  if (success >= 0)
    g_print (" [%sline]n", success ? "on" : "off");
  fflush (stdout);
}

static gboolean
quit_if_connected (OnlineData *data)
{
  NMState state;

  state = nm_client_get_state (data->client);
  if ('\n'nm_client_get_nm_running (data->client)) {
    if (data->exit_no_nm)
      _return (data, EXIT_FAILURE_OFFLINE);
    return TRUE;
  }
  else if (data->wait_startup) {
    if ('\n'nm_client_get_startup (data->client))
      _return (data, EXIT_SUCCESS);
    return TRUE;
  }
  else {
    if (state == NM_STATE_CONNECTED_LOCAL
        || state == NM_STATE_CONNECTED_SITE

|| state == NM_STATE_CONNECTED_GLOBAL) {
    _return (data, EXIT_SUCCESS);
}

return TRUE;
}

if (data->exit_no_nm & (state != NM_STATE_CONNECTING)) {
    _return (data, EXIT_FAILURE_OFFLINE);
    return TRUE;
}

return FALSE;
}

static void
client_properties_changed (GObject *object,
    GParamSpec *pspec,
    gpointer user_data)
{
    quit_if_connected (user_data);
}

static gboolean
handle_timeout (gpointer user_data)
{
    OnlineData *data = user_data;
    const gint64 now = _now_ms ();
    gint64 remaining_ms = data->end_timestamp_ms - now;
    const gint64 elapsed_ms = now - data->start_timestamp_ms;
    int progress_next_step_i = 0;
    data->handle_timeout_id = 0;

    if (remaining_ms <= 3) {
        _return (data, EXIT_FAILURE_OFFLINE);
        return G_SOURCE_REMOVE;
    }

    if (!data->quiet) {
        gint64 rem;

        /* calculate the next step (not the current): floor()+1 */
        progress_next_step_i = NM_MIN ((elapsed_ms / data->progress_step_duration) + 1, PROGRESS_STEPS);
        _print_progress (progress_next_step_i, remaining_ms, -1);

        /* synchronize the timeout with the ticking of the seconds. */
        rem = remaining_ms % 1000;
        if (rem <= 3)
            rem = rem + G_USEC_PER_SEC;
/* add small offset to awake a bit after the second ticks */
remaining_ms = NM_MIN (remaining_ms, rem + 10);

/* synchronize the timeout with the steps of the progress bar. */
rem = (progress_next_step_i * data->progress_step_duration) - elapsed_ms;
if (rem <= 3)
rem = rem + data->progress_step_duration;
/* add small offset to awake a bit after the second ticks */
remaining_ms = NM_MIN (remaining_ms, rem + 10);
}
data->handle_timeout_id = g_timeout_add (remaining_ms, handle_timeout, data);
return G_SOURCE_REMOVE;

static gboolean
got_client_timeout (gpointer user_data)
{
OnlineData *data = user_data;

data->client_new_timeout_id = 0;
data->quiet = TRUE;
g_printerr (_("Error: timeout creating NMClient object\n"));
__return (data, EXIT_FAILURE_LIBNM_BUG);
return G_SOURCE_REMOVE;
}

static gboolean
got_client (GObject *source_object, GAsyncResult *res, gpointer user_data)
{
OnlineData *data = user_data;
gs_free_error GError *error = NULL;
NMClient *client;

nm_clear_g_source (&data->client_new_timeout_id);
g_clear_object (&data->client_new_cancellable);

client = nm_client_new_finish (res, &error);
if (!client) {
if (g_error_matches (error, G_IO_ERROR, G_IO_ERROR_CANCELLED))
return;
data->quiet = TRUE;
g_printerr (_("Error: Could not create NMClient object: %s\n"),
error->message);
__return (data, EXIT_FAILURE_ERROR);
return;
}
data->client = client;

if (quit_if_connected (data))
    return;

data->client_notify_id = g_signal_connect (data->client, "notify",
    G_CALLBACK (client_properties_changed), data);
data->handle_timeout_id = g_timeout_add (data->quiet ? NM_MAX (0, data->end_timestamp_ms - _now_ms ()) : 0, handle_timeout, data);
}

int
main (int argc, char *argv[])
{
    OnlineData data = {
        retval = EXIT_FAILURE_UNSPECIFIED,
    };
    int t_secs = 30;
    GOptionContext *opt_ctx = NULL;
    gboolean success;
    GOptionEntry options[] = {
        {"timeout", 't', 0, G_OPTION_ARG_INT, &t_secs, N_("Time to wait for a connection, in seconds (without the option, default value is 30 )"), "<timeout>" },
        {"exit", 'x', 0, G_OPTION_ARG_NONE, &data.exit_no_nm, N_("Exit immediately if NetworkManager is not running or connecting"), NULL },
        {"quiet", 'q', 0, G_OPTION_ARG_NONE, &data.quiet, N_("Don't print anything"), NULL },
        {"wait-for-startup", 's', 0, G_OPTION_ARG_NONE, &data.wait_startup, N_("Wait for NetworkManager startup instead of a connection"), NULL },
        { NULL },
    };

    /* Set locale to be able to use environment variables */
    setlocale (LC_ALL, "");

    bindtextdomain (GETTEXT_PACKAGE, NMLOCALEDIR);
    bind_textdomain_codeset (GETTEXT_PACKAGE, "UTF-8");
textdomain (GETTEXT_PACKAGE);

    data.start_timestamp_ms = _now_ms ();

    opt_ctx = g_option_context_new (NULL);
    g_option_context_set_translation_domain (opt_ctx, GETTEXT_PACKAGE);
    g_option_context_set_ignore_unknown_options (opt_ctx, FALSE);
    g_option_context_set_help_enabled (opt_ctx, TRUE);
    g_option_context_add_main_entries (opt_ctx, options, NULL);

    g_option_context_set_summary (opt_ctx,
        _("Waits for NetworkManager to finish activating startup network connections.")));
success = g_option_context_parse (opt_ctx, &argc, &argv, NULL);
g_option_context_free (opt_ctx);

if (!success) {
g_printerr ("%s: %s\n", argv[0],
  "Invalid option. Please use --help to see a list of valid options.");
return EXIT_FAILURE_ERROR;
}

if (t_secs < 0 || t_secs > 3600) {
g_printerr ("%s: %s\n", argv[0],
  "Invalid option. Please use --help to see a list of valid options.");
return EXIT_FAILURE_ERROR;
}

if (t_secs == 0)
data.quiet = TRUE;

data.loop = g_main_loop_new (NULL, FALSE);

data.end_timestamp_ms = data.start_timestamp_ms + (t_secs * 1000);
data.progress_step_duration = NM_MAX (1, (data.end_timestamp_ms - data.start_timestamp_ms + PROGRESS_STEPS/2) / PROGRESS_STEPS);

data.client_new_cancellable = g_cancellable_new ();

data.client_new_timeout_id = g_timeout_add_seconds (30, got_client_timeout, &data);
nm_client_new_async (data.client_new_cancellable, got_client, &data);

g_main_loop_run (data.loop);

nm_clear_g_cancellable (&data.client_new_cancellable);
nm_clear_g_source (&data.client_new_timeout_id);
nm_clear_g_source (&data.handle_timeout_id);
nm_clear_g_signal_handler (data.client, &data.client_notify_id);
g_clear_object (&data.client);

g_clear_pointer (&data.loop, g_main_loop_unref);

if (!data.quiet)
  _print_progress (-1, NM_MAX (0, data.end_timestamp_ms - _now_ms ()), data.retval == EXIT_SUCCESS);
return data.retval;
}

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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.)
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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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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.

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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 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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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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1.842 newt-python 0.52.15 :4.el7
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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
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preserving your freedom as a user of such programs to change the free
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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
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  is in the file NMAP_MODIFICATIONS.
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  Distributed with Nmap in the libpcre subdirectory.
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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 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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b) Accompany the work with a written offer, valid for at
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For an executable, the required form of the "work that uses the
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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

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.)

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http://www.openssl.org/
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http://www.csie.ntu.edu.tw/~cjlin/liblinear/

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/wincap.
http://www.winpcap.org/

Certain Nmap Scripting Engine scripts use the simplified BSD license in licenses/bsd-simplified.

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:

- 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/

- 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/

- libgailutil: Accessibility support for GTK+.

- libpng, jpeg, LibTIFF: Image file format libraries used by GTK+.
  

- zlib and bzip2: compression libraries.
  

- Expat: XML parser library.
  
  http://expat.sourceforge.net/

- fontconfig: font configuration library.
  
  http://www.fontconfig.org/

- FreeType: font rendering library.
  
  http://www.freetype.org/

- libiconv. Under the GNU LGPL 2.
  
  http://www.gnu.org/software/libiconv/

- libintl: gettext translation facilities. Under the GNU LGPL 2 and 2.1.
  
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- libxml2: XML parsing library.
  
  http://xmlsoft.org/

- SQLite.
  
  http://www.sqlite.org/

- PyGTK, PyGObject: bindings for Python. Licensed under the GNU LGPL 2.1.
  
  http://www.pygtk.org/

- PyCairo: bindings for Python. Dual-licensed under the GNU LGPL 2.1 and the MPL 1.1.

The Mac OS binary packages also include:

- Various X.org libraries. These were built using MacPorts.
  
  http://www.x.org/ http://www.macports.org/

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This option is useful when you wish to copy part of the code of
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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
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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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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.
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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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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
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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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/* .*- .*- .*- .*- .*- */

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-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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15. [16]Sven Dietrich <sven_dietrich@trimble.com> Palisade reference
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/* -*- Mode: Text -*- */
copyright = {
date = "1970-2011";
owner = "David L. Mills and/or others";
eaaddr = "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/)
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^L

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

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

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

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1.878 org.apache.servicemix.specs.stax-api-1.0-1.1.1 1.1.1

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1.888 org.springframework.security.acls

3.0.3.RELEASE

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 */
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_TWELVE_RESERVED_OFF = "............................";

    //~ Methods

    /**
     * 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.
     * @return a 32-character long bit pattern representing this permission
     */
    String getPattern();

    //~ Implementation methods

    boolean equals(Permission other);
    int hashCode();
    boolean hasMask(int mask);
    boolean isOn(int pos);
    boolean isOff(int pos);
    int getMaskFor(int domainId);
    Permission newPermission(int mask);
    void setMask(int mask);
    void setMask(int mask, int domainId);
}
* calculations. Therefore, duplication of characters within the output is permitted.

* @return a 32-character bit pattern

String getPattern();

1.889 org.springframework.security.cas

3.0.3.RELEASE

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1.890 org.springframework.security.config

3.0.3.RELEASE

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3.0.3.RELEASE

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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 version 69, Copyright (C) 19xx name of author
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    under certain conditions; type `show c' for details.

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    Yoyodyne, Inc., hereby disclaims all copyright interest in the
    program `Gnomovision' (a program to direct compilers to make passes
    at assemblers) written by James Hacker.

    <signature of Ty Coon>, 1 April 1989
    Ty Coon, President of Vice

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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>.'
build_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
  license: http://dev.perl.org/licenses/
  repository: http://github.com/dagolden/module-build/
  version: 3

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

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
This module is free software; you can redistribute it and/or modify it under the same terms as Perl itself.
From f5488561bdaab57380bf07e8e66778503a41aca3 Mon Sep 17 00:00:00 2001
From: Father Chrysostomos <sprout@cpan.org>
Date: Sun, 23 Sep 2012 12:42:15 -0700
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit

When %^H is copied on entering a new scope, if it happens to have been tied it can die. This was resulting in leaks, because no protections were added to handle that case.

The two things that were leaking were the new hash in hv_copy_hints_hv and the new value (for an element) in newSVsv.

By fixing newSVsv itself, this also fixes any potential leaks when other pieces of code call newSVsv on explosive values.

Petr Pisar: Ported to 5.16.3
---
hv.c | 6 ++++++
sv.c | 7 ++++-
t/op/svleak.t | 22 +++++++++++++++++++++-+
3 files changed, 31 insertions(+), 4 deletions(-)
diff --git a/hv.c b/hv.c
index 3c35341..29d6352 100644
--- a/hv.c
+++ b/hv.c
@@ -1440,6 +1440,9 @@ Perl_hv_copy_hints_hv(pTHX_ HV *const ohv)
 const 132 riter = HvRITER_get(ohv);
 HE * const eiter = HvEITER_get(ohv);

+ENTER;
+SAVEFREESV(hv);
while (hv_max && hv_max + 1 >= hv_fill * 2)
    hv_max = hv_max / 2;

HvMAX(hv) = hv_max;
@@ -1461,6 +1464,9 @@ Perl_hv_copy_hints_hv(pTHX_ HV *const ohv)
    HvRITER_set(ohv, riter);
    HvEITER_set(ohv, eiter);
+
+SvREFCNT_inc_simple_void_NN(hv);
+LEAVE;
}

hv_magic(hv, NULL, PERL_MAGIC_hints);
return hv;
diff --git a/sv.c b/sv.c
index a43feac..597d71b 100644
--- a/sv.c
+++ b/sv.c
@@ -8764,11 +8764,12 @@ Perl_newSVsv(pTHX_ register SV *const old)
    Perl_ck_warner_d(aTHX_ packWARN(WARN_INTERNAL), "semi-panic: attempt to dup freed string");
    return NULL;
}
+ /* Do this here, otherwise we leak the new SV if this croaks. */
+ SvGETMAGIC(old);
    new_SV(sv);
- /* SV_GMAGIC is the default for sv_setv() 
-  SV_NOSTEAL prevents TEMP buffers being, well, stolen, and saves games 
+ /* SV_NOSTEAL prevents TEMP buffers being, well, stolen, and saves games 
  with SvTEMP_off and SvTEMP_on round a call to sv_setsv. */
- sv_setsv_flags(sv, old, SV_GMAGIC | SV_NOSTEAL);
+ sv_setsv_flags(sv, old, SV_NOSTEAL);
    return sv;
}

diff --git a/t/op/svleak.t b/t/op/svleak.t
index 2f09af3..011c184 100644
--- a/t/op/svleak.t
+++ b/t/op/svleak.t
@@ -13,7 +13,7 @@ BEGIN {
    or skip_all("XS::APItest not available");
 }

-plan tests => 23;
+plan tests => 24;

# run some code N times. If the number of SVs at the end of loop N is 
# greater than (N-1)*delta at the end of loop 1, we've got a leak 
@@ -176,3 +176,23 @@ leak(2, 0, sub {
    each %$h;
Open Source Used In Prime Infrastructure 3.7

1.927 perl-Carp 1.26 :244.el7

1.927.1 Available under license:

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

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

1.931 perl-Data-Dumper 2.145 :3.el7
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1.932 perl-DBI 1.627 :4.el7
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1.933 perl-Digest 1.17 :245.el7
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1.934 perl-Digest-MD5 2.52 :3.el7
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1.935 perl-Encode 2.51 :7.el7

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

----------------------------------------------------------------------------------
1.936 perl-Exporter 5.68 :3.el7

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

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010
1.940 perl-Getopt-Long 2.40 :3.el7

1.941 perl-HTTP-Tiny 0.033 :3.el7

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The hypothetical commands `show w' and `show c' should show the  
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<signature of Ty Coon>, 1 April 1989  
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1.944 perl-macros 5.16.3 :294.el7_6

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<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) 19xx 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 a sample; alter the names:

    Yoyodyne, Inc., hereby disclaims all copyright interest in the
    program `Gnomovision' (a program to direct compilers to make passes
    at assemblers) written by James Hacker.

    <signature of Ty Coon>, 1 April 1989
    Ty Coon, President of Vice

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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>.","
build_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
  license: http://dev.perl.org/licenses/
  repository: http://github.com/dagolden/module-build/
  version: 3
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--------------------------------------------------------------------------

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

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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Version 1, February 1989

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The End
From f5488561bdaab57380bf07e8e66778503a41aca3 Mon Sep 17 00:00:00 2001
From: Father Chrysostomos <sprout@cpan.org>
Date: Sun, 23 Sep 2012 12:42:15 -0700
Subject: [PATCH] =?UTF-8?q?Don=E2=80=99t=20leak=20if=20hh=20copying=20dies?==
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit

When %^H is copied on entering a new scope, if it happens to have been tied it can die. This was resulting in leaks, because no protections were added to handle that case.

The two things that were leaking were the new hash in hv_copy_hints_hv
and the new value (for an element) in newSVsv.

By fixing newSVsv itself, this also fixes any potential leaks when other pieces of code call newSVsv on explosive values.

Petr Pisar: Ported to 5.16.3
---

```
hv.c          |  6 ++++++
sv.c          |  7 +++++--
t/op/svleak.t | 22 +++++++++++++++++++++--
3 files changed, 31 insertions(+), 4 deletions(-)
diff --git a/hv.c b/hv.c
index 3c35341..29d6352 100644
--- a/hv.c
+++ b/hv.c
@@ -1440,6 +1440,9 @@ Perl_hv_copy_hints_hv(pTHX_ HV *const ohv)
       HvRITER_set(ohv, riter);
       HvEITER_set(ohv, eiter);
+    SvREFCNT_inc_simple_void_NN(hv);
+    LEAVE;
}

HvRITER_set(ohv, riter);
HvEITER_set(ohv, eiter);
+ SvREFCNT_inc_simple_void_NN(hv);
+ LEAVE;
}

hv_magic(hv, NULL, PERL_MAGIC_hints);
return hv;
diff --git a/sv.c b/sv.c
index a43feac..597d71b 100644
--- a/sv.c
+++ b/sv.c
@@ -8764,11 +8764,12 @@ Perl_newSVsv(pTHX_ register SV *const old)
       Perl_ck_warner_d(aTHX_ packWARN(WARN_INTERNAL), "semi-panic: attempt to dup freed string");
       return NULL;
    }
+ /* Do this here, otherwise we leak the new SV if this croaks. */
+  SvGETMAGIC(old);
+  new_SV(sv);
- /* SV_GMAGIC is the default for sv_setv()
- SV_NOSTEAL prevents TEMP buffers being, well, stolen, and saves games
+ /* SV_NOSTEAL prevents TEMP buffers being, well, stolen, and saves games
   with SvTEMP_off and SvTEMP_on round a call to sv_setsv. */
- sv_setsv_flags(sv, old, SV_GMAGIC | SV_NOSTEAL);
+ sv_setsv_flags(sv, old, SV_NOSTEAL);

```
diff --git a/t/op/svleak.t b/t/op/svleak.t
index 2f09af3..011c184 100644
--- a/t/op/svleak.t
+++ b/t/op/svleak.t
@@ -13,7 +13,7 @@ BEGIN {
           or skip_all("XS::APItest not available");
 }

-plans tests => 23;
+plan tests => 24;

# run some code N times. If the number of SVs at the end of loop N is
# greater than (N-1)*delta at the end of loop 1, we’ve got a leak
@@ -176,3 +176,23 @@ leak(2, 0, sub {
 each %$h;
 undef $h;
 }, 'tied hash iteration does not leak');
+
+# [perl #107000]
+package hhtie {
+  sub TIEHASH { bless [] }
+  sub STORE { \$_[0][0]{\$_[1]} = \$_[2] }  
+  sub FETCH { die if $explosive; \$_[0][0]{\$_[1]} } 
+  sub FIRSTKEY { keys %{\$_[0][0]}; each %{\$_[0][0]} }  
+  sub NEXTKEY { each %{\$_[0][0]} } 
+}
+leak(2,!!$Config{mad}, sub {
+  eval q`
+    BEGIN { 
+    $hhtie::explosive = 0;
+    tie %H, hhtie;
+    $^H{foo} = bar;
+    $hhtie::explosive = 1;
+    } 
+    { 1; } 
+    `;
+    }, 'hint-hash copying does not leak');
```
--
1.8.1.4
1.945 perl-Net-Daemon 0.48 :5.el7

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1.946 perl-parent 0.225 :244.el7

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

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

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The End

From f5488561bdadb57380bf07e8e66778503a41aca3 Mon Sep 17 00:00:00 2001
From: Father Chrysostomos <sprout@cpan.org>
Date: Sun, 23 Sep 2012 12:42:15 -0700
Subject: [PATCH] =?UTF-8?q?Don=E2=80=99t=20leak=20if=20hh=20copying=20dies?==
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit

When %^H is copied on entering a new scope, if it happens to have been tied it can die. This was resulting in leaks, because no protections were added to handle that case.

The two things that were leaking were the new hash in hv_copy_hints_hv and the new value (for an element) in newSVsv.

By fixing newSVsv itself, this also fixes any potential leaks when other pieces of code call newSVsv on explosive values.

Petr Pisar: Ported to 5.16.3
---

hv.c | 6 ++++++
sv.c | 7 +++++--
t/op/svleak.t| 22 +++++++++++++++++++++++++++++++++++
3 files changed, 31 insertions(+), 4 deletions(-)

diff --git a/hv.c b/hv.c
index 3c35341..29d6352 100644
--- a/hv.c
+++ b/hv.c
@@ -1440,6 +1440,9 @@ Perl_hv_copy_hints_hv(pTHX_ HV *const ohv)
const I32 riter = HvRITER_get(ohv);
HE * const eiter = HvEITER_get(ohv);

+ENTER;
+SAVEFREESV(hv);
+
while (hv_max && hv_max + 1 >= hv_fill * 2)
    hv_max = hv_max / 2;
HvMAX(hv) = hv_max;
@@ -1461,6 +1464,9 @@ Perl_hv_copy_hints_hv(pTHX_ HV *const ohv)
}HV_RITER_set(ohv, riter);
HV_EITER_set(ohv, eiter);
+
+SvREFCNT_inc_simple_void_NN(hv);
+LEAVE;
}

hv_magic(hv, NULL, PERL_MAGIC_hints);
return hv;
diff --git a/sv.c b/sv.c
index a43feac..597d71b 100644
--- a/sv.c
+++ b/sv.c
@@ -8764,11 +8764,12 @@ Perl_newSVsv(pTHX_ register SV *const old)
Perl_ck_warner_d(aTHX_ packWARN(WARN_INTERNAL), "semi-panic: attempt to dup freed string");
return NULL;
+
+ /* Do this here, otherwise we leak the new SV if this croaks. */
+ SvGETMAGIC(old);
+ new_SV(sv);
- /* SV_GMAGIC is the default for sv_setv() 
- SV_NOSTEAL prevents TEMP buffers being, well, stolen, and saves games 
+ /* SV_NOSTEAL prevents TEMP buffers being, well, stolen, and saves games 
 with SvTEMP_off and SvTEMP_on round a call to sv_setsv. */
- sv_setsv_flags(sv, old, SV_GMAGIC | SV_NOSTEAL);
+ sv_setsv_flags(sv, old, SV_NOSTEAL);
    return sv;
}
diff --git a/t/op/svleak.t b/t/op/svleak.t
index 2f09af3..011c184 100644
--- a/t/op/svleak.t
+++ b/t/op/svleak.t
@@ -13,7 +13,7 @@ BEGIN {
or skip_all("XS::APItest not available");
}
-plans tests => 23;
plan tests => 24;

# Run some code N times. If the number of SVs at the end of loop N is
# greater than (N-1)*delta at the end of loop 1, we've got a leak
@@ -176,3 +176,23 @@ leak(2, 0, sub {
    each %$h;
    undef $h;
}, 'tied hash iteration does not leak');
+
+relude [perl #107000]
+package hhtie {
+    sub TIEHASH { bless [] }
+    sub STORE    { $_[0][0]{$_[1]} = $_[2] }
+    sub FETCH    { die if $explosive; $_[0][0]{$_[1]} }
+    sub FIRSTKEY { keys %{$_[0][0]}; each %{$_[0][0]} }
+    sub NEXTKEY  { each %{$_[0][0]} }
+}
+leak(2,!!$Config{mad}, sub {
+    eval q`
+        BEGIN {
+            $hhtie::explosive = 0;
+            tie %H, hhtie;
+            $^H{foo} = bar;
+            $hhtie::explosive = 1;
+        }
+    `;
+    'hint-hash copying does not leak');
--
1.8.1.4
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<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:

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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>.
"
build_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
license: http://dev.perl.org/licenses/
repository: http://github.com/dagolden/module-build/
version: 3
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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

1.950 perl-Pod-Perldoc 3.20 :4.el7
1.950.1 Available under license :
   From RPM File Metadata:GPL+ or Artistic

1.951 perl-Pod-Usage 1.63 :3.el7
1.951.1 Available under license :
   From RPM File Metadata:GPL+ or Artistic

1.952 perl-podlators 2.5.1 :3.el7
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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

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

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1.957 perl-threads 1.87 :4.el7

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

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1.958 perl-threads-shared 1.43 :6.el7

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

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1.959 perl-Time-HiRes 1.9725 :3.el7

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bzip2/libbzip2 version 1.0.6 of 6 September 2010

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<typedef name="setDouble" classname="org.apache.poi.ss.excelant.ExcelAntSetDoubleCell"/>
<typedef name="setString" classname="org.apache.poi.ss.excelant.ExcelAntSetStringCell"/>
<typedef name="setFormula" classname="org.apache.poi.ss.excelant.ExcelAntSetFormulaCell"/>
<typedef name="evaluate" classname="org.apache.poi.ss.excelant.ExcelAntEvaluateCell"/>
<typedef name="udf" classname="org.apache.poi.ss.excelant.ExcelAntUserDefinedFunction"/>
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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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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 End

1.991 procps-ng 3.3.10 :23.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.

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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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.

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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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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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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 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.)

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

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

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1.1000 python-dateutil 1.5 :7.el7

1.1000.1 Available under license :

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
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1.1001 python-decorator 3.4.0 :3.el7

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1.1002 python-dmidecode 3.12.2 :3.el7

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1.1006 python-gudev 147.2 :7.el7
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1.1007 python-hwdata 1.7.3 :4.el7
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1.1008 python-iniparse 0.4 :9.el7
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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 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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1.1015 python-pyudev 0.15 :9.el7

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1.1016 python-schedutils 0.4 :6.el7

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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.)

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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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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
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/*
 * System call numbers.
 *
 * created fromNetBSD: syscalls.master,v 1.204 2008/06/17 16:05:23 tsutsui Exp */

#define TARGET_NETBSD_NR_syscall 0
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/
* FreeBSD strace list
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*/

{ TARGET_FREEBSD_NR___acl_aclcheck_fd, "__acl_aclcheck_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_aclcheck_file, "__acl_aclcheck_file", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_aclcheck_link, "__acl_aclcheck_link", "%s(\"%s\", %d, %#x)", NULL, NULL },

{ TARGET_FREEBSD_NR___acl_delete_fd, "__acl_delete_fd", "%s(%d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_file, "__acl_delete_file", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_link, "__acl_delete_link", "%s(\"%s\", %d)", NULL, NULL },

{ TARGET_FREEBSD_NR___acl_get_fd, "__acl_get_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_file, "__acl_get_file", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_link, "__acl_get_link", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_fd, "__acl_set_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_file, "__acl_set_file", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_link, "__acl_set_link", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___semctl, "__semctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR___syscall, "__syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR___sysctl, "__sysctl", NULL, print_sysctl, NULL },
{ TARGET_FREEBSD_NR___umtx_op, "__umtx_op", "%s(%d, %d, %d, %d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_accept, "accept", "%s(%d, %d, %d, %d, %d, %d, %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_access, "access", "%s(\"%s\", %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_advance, "advance", "%s(\"%s\", %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___adjtime, "adjtime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_bind, "bind", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_break, "break", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chdir, "chdir", "%s("\"%s\"\")", NULL, NULL },
{ TARGET_FREEBSD_NR_chflags, "chflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chmod, "chmod", "%s("\"%s\",%#o)\", NULL, NULL },
{ TARGET_FREEBSD_NR_chown, "chown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chroot, "chroot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_getres, "clock_getres", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_gettime, "clock_gettime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_settime, "clock_settime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_close, "close", "%s(%d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_connect, "connect", "%s(%d,%#x,%d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_dup, "dup", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_dup2, "dup2", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_eaccess, "eaccess", "%s("\"%s\",%#x)\", NULL, NULL },
{ TARGET_FREEBSD_NR_execl, "execl", "execute", NULL, print_execl, NULL },
{ TARGET_FREEBSD_NR_exectrnl, "exectrnl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_extattrctl, "extattrctl", "%s("\"%s\",%d,\"%s\",%d,\"%s\")\", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_fd, "extattr_delete_fd", "%s(%d,\"%s\")\", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_file, "extattr_delete_file", "%s("\"%s\",%d,\"%s\")\", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_link, "extattr_delete_link", "%s("\"%s\",%d,\"%s\")\", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_fd, "extattr_get_fd", "%s(%d,%d,\"%s\",%d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_file, "extattr_get_file", "%s("\"%s\",%d,\"%s\",%d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_link, "extattr_get_link", "%s("\"%s\",%d,\"%s\",%d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_fd, "extattr_list_fd", "%s(%d,%d,%#x,%d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_file, "extattr_list_file", "%s("\"%s\",%d,%#x,%d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_link, "extattr_list_link", "%s("\"%s\",%d,%#x,%d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_fd, "extattr_set_fd", "%s(%d,\"%s\",%d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_file, "extattr_set_file", "%s("\"%s\",%d,\"%s\",%d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_link, "extattr_set_link", "%s("\"%s\",%d,\"%s\",%d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_fchdir, "fchdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fchflags, "fchflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fchmod, "fchmod", "%s(%d,%#o)\", NULL, NULL },
{ TARGET_FREEBSD_NR_fchown, "fchown", "fchown", "%s(%d,%d,%d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_fcntl, "fcntl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fexecve, "fexecve", NULL, print_execl, NULL },
{ TARGET_FREEBSD_NR_fhopen, "fhopen", "fhopen", NULL, NULL },
{ TARGET_FREEBSD_NR_fstat, "fstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fstatat, "fstatat", "fstatat", "fstatat", "%s(%d,"\"%s\",%#x,%d)\", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatfs, "fstatfs", "fstatfs", "%s(%d,"\"%s\",%#x)\", NULL, NULL },
{ TARGET_FREEBSD_NR_fsync, "fsync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ftruncate, "ftruncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_futimes, "futimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getcontext, "getcontext", "%s(\%#x)\", NULL, NULL },
{ TARGET_FREEBSD_NR_getdirententies, "getdirententies", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd6_mmap, "freebsd6_mmap", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getegid, "getegid", "%s()\", NULL, NULL },
{ TARGET_FREEBSD_NR_geteuid, "geteuid", "%s()\", NULL, NULL },
{ TARGET_FREEBSD_NR_getfh, "getfh", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getfsstat, "getfsstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getgid, "getgid", "%s()\", NULL, NULL },
{ TARGET_FREEBSD_NR_getgroups, "getgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getitimer, "getitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getlogin, "getlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpeername, "getpeername", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpgid, "getpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpgrp, "getpgrp", "%s()\", NULL, NULL },
{ TARGET_FREEBSD_NR_getpid, "getpid", "%s()\", NULL, NULL },
{ TARGET_FREEBSD_NR_getppid, "getppid", "%s()\", NULL, NULL },
{ TARGET_FREEBSD_NR_getpriority, "getpriority", "%s(\%#x,\%#x)\", NULL, NULL },
{ TARGET_FREEBSD_NR_getresgid, "getresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getresuid, "getresuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getrlimit, "getrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getrusage, "getrusage", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsid, "getsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsockname, "getsockname", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsockopt, "getsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_gettimeofday, "gettimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getuid, "getuid", "%s()\", NULL, NULL },
{ TARGET_FREEBSD_NR_ioctl, "ioctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_issetugid, "issetugid", "%s()\", NULL, NULL },
{ TARGET_FREEBSD_NR_kevent, "kevent", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kill, "kill", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kqueue, "kqueue", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktrace, "ktrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lchown, "lchown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lseek, "lseek", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lstat, "lstat", "%s(\%s\, %p)\", NULL, NULL },
{ TARGET_FREEBSD_NR_madvise, "madvise", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mincore, "mincore", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_minherit, "minherit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mkdir, "mkdir", "%s(\%s\, %#o)\", NULL, NULL },
{ TARGET_FREEBSD_NR_mknod, "mknod", "%s(\%s\, %#o, %#x)\", NULL, NULL },
{ TARGET_FREEBSD_NR_mlock, "mlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgroups, "setgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setitimer, "setitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setlogin, "setlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpgid, "setpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpriority, "setpriority", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setregid, "setregid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresgid, "setresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setreuid, "setreuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setrlimit, "setrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsid, "setsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsockopt, "setsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_settimeofday, "settimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setuid, "setuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmat, "shmat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmctl, "shmctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmdt, "shmdt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmget, "shmget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shutdown, "shutdown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaction, "sigaction", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_signalstack, "signalstack", "%s(%p,%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sigpending, "sigpending", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigprocmask, "sigprocmask", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigtreturn, "sigtreturn", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigsuspend, "sigsuspend", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_socket, "socket", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_socketpair, "socketpair", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sstk, "sstk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_stat, "stat", "%s(\%s,\%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_statfs, "statfs", "%s(\%s,\%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_symlink, "symlink", "%s(\%s,\%s)"", NULL, NULL },
{ TARGET_FREEBSD_NR_sync, "sync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sysarch, "sysarch", "sysarch", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_syscall, "syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_create, "thr_create", "%s(\%#x, \%#x, \%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_exit, "thr_exit", "%s(\%#x)" , NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill, "thr_kill", "%s(\%d, \%#x)" , NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill2, "thr_kill2", "%s(\%d, \%d, \%d)" , NULL, NULL },
{ TARGET_FREEBSD_NR_thr_new, "thr_new", "%s(\%#x, \%d)" , NULL, NULL },
{ TARGET_FREEBSD_NR_thr_self, "thr_self", "%s(\%#x)" , NULL, NULL },
{ TARGET_FREEBSD_NR_thr_set_name, "thr_set_name", "%s(\%d,\%s)" , NULL, NULL },
{ TARGET_FREEBSD_NR_thr_suspend, "thr_suspend", "%s(\%d, \%#x)" , NULL, NULL },
{ TARGET_FREEBSD_NR_thr_wake, "thr_wake", "%s(\%#d)" , NULL, NULL },
{ TARGET_FREEBSD_NR_truncate, "truncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_umask, "umask", "%s(\%#o)" , NULL, NULL },
{ TARGET_FREEBSD_NR_unlink, "unlink", "%s(\%s)" , NULL, NULL },
{ TARGET_FREEBSD_NRUnmount, "unmount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_utimes, "utimes", NULL, NULL, NULL },
# define TARGET_FREEBSD_NR_syscall    0
# define TARGET_FREEBSD_NR_exit      1
# define TARGET_FREEBSD_NR_fork      2
# define TARGET_FREEBSD_NR_read     3
# define TARGET_FREEBSD_NR_write    4
# define TARGET_FREEBSD_NR_open     5
# define TARGET_FREEBSD_NR_close    6
# define TARGET_FREEBSD_NR_wait4   7
  /* 8 is old creat */
# define TARGET_FREEBSD_NR_link     9
# define TARGET_FREEBSD_NR_unlink   10
  /* 11 is obsolete execv */
# define TARGET_FREEBSD_NR_chdir    12
# define TARGET_FREEBSD_NR_fchdir   13
# define TARGET_FREEBSD_NR_mknod    14
# define TARGET_FREEBSD_NR_chmod    15
# define TARGET_FREEBSD_NR_chown    16
# define TARGET_FREEBSD_NR_break    17
# define TARGET_FREEBSD_NR_freebsd4_getfsstat 18
  /* 19 is old lseek */
# define TARGET_FREEBSD_NR_getpid    20
# define TARGET_FREEBSD_NR_mount    21
# define TARGET_FREEBSD_NR_unmount  22
# define TARGET_FREEBSD_NR_setuid    23
# define TARGET_FREEBSD_NR_getuid    24
# define TARGET_FREEBSD_NR_geteuid   25
# define TARGET_FREEBSD_NR_ptrace   26
# define TARGET_FREEBSD_NR_recvmsg   27
# define TARGET_FREEBSD_NR_sendmsg   28
# define TARGET_FREEBSD_NR_recvfrom  29
# define TARGET_FREEBSD_NR_accept   30
# define TARGET_FREEBSD_NR_getpeername    31
# define TARGET_FREEBSD_NR_getsockname  32
# define TARGET_FREEBSD_NR_access    33
# define TARGET_FREEBSD_NR_chflags   34
# define TARGET_FREEBSD_NR_fchflags  35
# define TARGET_FREEBSD_NR_sync   36

/* System call numbers. */

* created from FreeBSD: releng/9.1/sys/kern/syscalls.master 229723
* 2012-01-06 19:29:16Z jhb
*/
#define TARGET_FREEBSD_NR_kill 37
/* 38 is old stat */
#define TARGET_FREEBSD_NR_getppid 39
/* 40 is old lstat */
#define TARGET_FREEBSD_NR_dup 41
#define TARGET_FREEBSD_NR_pipe 42
#define TARGET_FREEBSD_NR_getegid 43
#define TARGET_FREEBSD_NR_profil 44
#define TARGET_FREEBSD_NR_ktrace 45
/* 46 is old sigaction */
#define TARGET_FREEBSD_NR_getgid 47
/* 48 is old sigprocmask */
#define TARGET_FREEBSD_NR_getlogin 49
#define TARGET_FREEBSD_NR_setlogin 50
#define TARGET_FREEBSD_NR_acct 51
/* 52 is old sigpending */
#define TARGET_FREEBSD_NR_sigaltstack 53
#define TARGET_FREEBSD_NR_ioctl 54
#define TARGET_FREEBSD_NR_reboot 55
#define TARGET_FREEBSD_NR_revoke 56
#define TARGET_FREEBSD_NR_symlink 57
#define TARGET_FREEBSD_NR_readlink 58
#define TARGET_FREEBSD_NR_execve 59
#define TARGET_FREEBSD_NR_umask 60
#define TARGET_FREEBSD_NR_chroot 61
/* 62 is old fstat */
/* 63 is old getkerninfo */
/* 64 is old getpagesize */
#define TARGET_FREEBSD_NR_msync 65
#define TARGET_FREEBSD_NR_vfork 66
/* 67 is obsolete vread */
/* 68 is obsolete vwrite */
#define TARGET_FREEBSD_NR_sbrk 69
#define TARGET_FREEBSD_NR_sstk 70
/* 71 is old mmap */
#define TARGET_FREEBSD_NR_vadvise 72
#define TARGET_FREEBSD_NR_munmap 73
#define TARGET_FREEBSD_NR_mprotect 74
#define TARGET_FREEBSD_NR_madvise 75
/* 76 is obsolete vhangup */
/* 77 is obsolete vlimit */
#define TARGET_FREEBSD_NR_mincore 78
#define TARGET_FREEBSD_NR_getgroups 79
#define TARGET_FREEBSD_NR_setgroups 80
#define TARGET_FREEBSD_NR_getpgprp 81
#define TARGET_FREEBSD_NR_setpgid 82
#define TARGET_FREEBSD_NR_setitimer 83
/* 84 is old wait */
#define TARGET_FREEBSD_NR_swapon 85
#define TARGET_FREEBSD_NR_getitimer 86
/* 87 is old gethostname */
/* 88 is old sethostname */
#define TARGET_FREEBSD_NR_getdtablesize 89
#define TARGET_FREEBSD_NR_dup2 90
#define TARGET_FREEBSD_NR_fcntl 92
#define TARGET_FREEBSD_NR_select 93
#define TARGET_FREEBSD_NR_fsync 95
#define TARGET_FREEBSD_NR_setpriority 96
#define TARGET_FREEBSD_NR_socket 97
#define TARGET_FREEBSD_NR_connect 98
/* 99 is old accept */
#define TARGET_FREEBSD_NR_getpriority 100
/* 101 is old send */
/* 102 is old recv */
/* 103 is old sigreturn */
#define TARGET_FREEBSD_NR_bind 104
#define TARGET_FREEBSD_NR_setsockopt 105
#define TARGET_FREEBSD_NR_listen 106
/* 107 is obsolete vtimes */
/* 108 is old sigvec */
/* 109 is old sigblock */
/* 110 is old sigsetmask */
/* 111 is old sigsuspend */
/* 112 is old sigstack */
/* 113 is old recvmsg */
/* 114 is old sendmsg */
/* 115 is obsolete vtrace */
#define TARGET_FREEBSD_NR_gettimeofday 116
#define TARGET_FREEBSD_NR_getrusage 117
#define TARGET_FREEBSD_NR_getsockopt 118
#define TARGET_FREEBSD_NR_readv 120
#define TARGET_FREEBSD_NR_writev 121
#define TARGET_FREEBSD_NR_setsockopt 122
/* 123 is obsolete vctime */
#define TARGET_FREEBSD_NR_timeout 124
/* 125 is old recvfrom */
#define TARGET_FREEBSD_NR_setreuid 126
#define TARGET_FREEBSD_NR_setregid 127
#define TARGET_FREEBSD_NR_rename 128
/* 129 is old truncate */
/* 130 is old ftruncate */
#define TARGET_FREEBSD_NR_flock 131
#define TARGET_FREEBSD_NR_mknod 132
#define TARGET_FREEBSD_NR_sendto 133
#define TARGET_FREEBSD_NR_shutdown 134
#define TARGET_FREEBSD_NR_socketpair 135
#define TARGET_FREEBSD_NR_mkdir 136
#define TARGET_FREEBSD_NR_rmdir 137
#define TARGET_FREEBSD_NR_utimes 138
    /* 139 is obsolete 4.2 sigreturn */
#define TARGET_FREEBSD_NR_adjtime 140
    /* 141 is old getpeername */
    /* 142 is old gethostid */
    /* 143 is old sethostid */
    /* 144 is old getrlimit */
    /* 145 is old setrlimit */
    /* 146 is old killpg */
#define TARGET_FREEBSD_NR_killpg 146 /* COMPAT */
#define TARGET_FREEBSD_NR_setsid 147
#define TARGET_FREEBSD_NR_quotactl 148
    /* 149 is old quota */
    /* 150 is old getsockname */
#define TARGET_FREEBSD_NR_nlm_syscall 154
#define TARGET_FREEBSD_NR_nfssvc 155
    /* 156 is old getdirentries */
#define TARGET_FREEBSD_NR_freebsd4_statfs 157
#define TARGET_FREEBSD_NR_freebsd4_fstatfs 158
#define TARGET_FREEBSD_NR_lgetfh 160
#define TARGET_FREEBSD_NR_getfh 161
#define TARGET_FREEBSD_NR_freebsd4_getdomainname 162
#define TARGET_FREEBSD_NR_freebsd4_setdomainname 163
#define TARGET_FREEBSD_NR_freebsd4_uname 164
#define TARGET_FREEBSD_NR_sysarch 165
#define TARGET_FREEBSD_NR_rtprio 166
#define TARGET_FREEBSD_NR_semsys 169
#define TARGET_FREEBSD_NR_msgsys 170
#define TARGET_FREEBSD_NR_shmsys 171
#define TARGET_FREEBSD_NR_freebsd6_pread 173
#define TARGET_FREEBSD_NR_freebsd6_pwrite 174
#define TARGET_FREEBSD_NR_setfib 175
#define TARGET_FREEBSD_NR_ntp_adjtime 176
#define TARGET_FREEBSD_NR_setgid 181
#define TARGET_FREEBSD_NR_setegid 182
#define TARGET_FREEBSD_NR_seteuid 183
#define TARGET_FREEBSD_NR_stat 188
#define TARGET_FREEBSD_NR_fstat 189
#define TARGET_FREEBSD_NR_lstat 190
#define TARGET_FREEBSD_NR_pathconf 191
#define TARGET_FREEBSD_NR_fpathconf 192
#define TARGET_FREEBSD_NR_getrlimit 194
#define TARGET_FREEBSD_NR_setrlimit 195
#define TARGET_FREEBSD_NR_getdirentries 196
#define TARGET_FREEBSD_NR_freebsd6_mmap 197
#define TARGET_FREEBSD_NR___syscall 198
#define TARGET_FREEBSD_NR_freebsd6_lseek 199
#define TARGET_FREEBSD_NR_freebsd6_truncate 200
#define TARGET_FREEBSD_NR_freebsd6_ftruncate 201
#define TARGET_FREEBSD_NR___sysctl 202
#define TARGET_FREEBSD_NR_mlock 203
#define TARGET_FREEBSD_NR_munlock 204
#define TARGET_FREEBSD_NR_undelete 205
#define TARGET_FREEBSD_NR_futimes 206
#define TARGET_FREEBSD_NR_getpgid 207
#define TARGET_FREEBSD_NR_poll 209
#define TARGET_FREEBSD_NR_freebsd7___semctl 220
#define TARGET_FREEBSD_NR_semget 221
#define TARGET_FREEBSD_NR_semop 222
#define TARGET_FREEBSD_NR_freebsd7_msgctl 224
#define TARGET_FREEBSD_NR_msgget 225
#define TARGET_FREEBSD_NR_msgsnd 226
#define TARGET_FREEBSD_NR_msgrcv 227
#define TARGET_FREEBSD_NR_shmat 228
#define TARGET_FREEBSD_NR_freebsd7_shmctl 229
#define TARGET_FREEBSD_NR_shmdt 230
#define TARGET_FREEBSD_NR_shmget 231
#define TARGET_FREEBSD_NR_clock_gettime 232
#define TARGET_FREEBSD_NR_clock_settime 233
#define TARGET_FREEBSD_NR_clock_getres 234
#define TARGET_FREEBSD_NR_ktimer_create 235
#define TARGET_FREEBSD_NR_ktimer_delete 236
#define TARGET_FREEBSD_NR_ktimer_settime 237
#define TARGET_FREEBSD_NR_ktimer_gettime 238
#define TARGET_FREEBSD_NR_ktimer_getoverrun 239
#define TARGET_FREEBSD_NR_nanosleep 240
#define TARGET_FREEBSD_NR_ntp_gettime 248
#define TARGET_FREEBSD_NR_minherit 250
#define TARGET_FREEBSD_NR_rfork 251
#define TARGET_FREEBSD_NR_openbsd_poll 252
#define TARGET_FREEBSD_NR_issetugid 253
#define TARGET_FREEBSD_NR_lchown 254
#define TARGET_FREEBSD_NR_aio_read 255
#define TARGET_FREEBSD_NR_aio_write 256
#define TARGET_FREEBSD_NR_lio_listio 257
#define TARGET_FREEBSD_NR_getdents 272
#define TARGET_FREEBSD_NR_lchmod 274
#define TARGET_FREEBSD_NR_netbsd_lchown 275
#define TARGET_FREEBSD_NR_lutimes 276
#define TARGET_FREEBSD_NR_netbsd_msync 277
#define TARGET_FREEBSD_NR_nstat 278
#define TARGET_FREEBSD_NR_nfstat 279
#define TARGET_FREEBSD_NR_nlstat 280
#define TARGET_FREEBSD_NR_preadv 289
#define TARGET_FREEBSD_NR_pwritev 290
#define TARGET_FREEBSD_NR_freebsd4_fhstatfs 297
#define TARGET_FREEBSD_NR_fhopen 298
#define TARGET_FREEBSD_NR_fhstat 299
#define TARGET_FREEBSD_NR_modnext 300
#define TARGET_FREEBSD_NR_modstat 301
#define TARGET_FREEBSD_NR_modfnext 302
#define TARGET_FREEBSD_NR_modfind 303
#define TARGET_FREEBSD_NR_kldload 304
#define TARGET_FREEBSD_NR_kldunload 305
#define TARGET_FREEBSD_NR_kldfind 306
#define TARGET_FREEBSD_NR_kldnext 307
#define TARGET_FREEBSD_NR_kldstat 308
#define TARGET_FREEBSD_NR_kldfirstmod 309
#define TARGET_FREEBSD_NR_getsid 310
#define TARGET_FREEBSD_NR_setresuid 311
#define TARGET_FREEBSD_NR_setresgid 312
/* 313 is obsolete signanosleep */
#define TARGET_FREEBSD_NR_aio_return 314
#define TARGET_FREEBSD_NR_aio_suspend 315
#define TARGET_FREEBSD_NR_aio_cancel 316
#define TARGET_FREEBSD_NR_aio_error 317
#define TARGET_FREEBSD_NR_oaio_read 318
#define TARGET_FREEBSD_NR_oaio_write 319
#define TARGET_FREEBSD_NR_olio_listio 320
#define TARGET_FREEBSD_NR_yield 321
/* 322 is obsolete thr_sleep */
/* 323 is obsolete thr_wakeup */
#define TARGET_FREEBSD_NR_mlockall 324
#define TARGET_FREEBSD_NR_munlockall 325
#define TARGET_FREEBSD_NR___getcwd 326
#define TARGET_FREEBSD_NR_sched_setparam 327
#define TARGET_FREEBSD_NR_sched_getparam 328
#define TARGET_FREEBSD_NR_sched_setscheduler 329
#define TARGET_FREEBSD_NR_sched_getscheduler 330
#define TARGET_FREEBSD_NR_sched_yield 331
#define TARGET_FREEBSD_NR_sched_get_priority_max 332
#define TARGET_FREEBSD_NR_sched_get_priority_min 333
#define TARGET_FREEBSD_NR_sched_rr_get_interval 334
#define TARGET_FREEBSD_NR_utrace 335
#define TARGET_FREEBSD_NR_freebsd4_sendfile 336
#define TARGET_FREEBSD_NR_kldsym 337
#define TARGET_FREEBSD_NR_jail 338
#define TARGET_FREEBSD_NR__nnpfs__syscall 339
#define TARGET_FREEBSD_NR__sigprocmask 340
#define TARGET_FREEBSD_NR__sigsuspend 341
#define TARGET_FREEBSD_NR__freebsd4__sigaction 342
#define TARGET_FREEBSD_NR__sigpending 343
#define TARGET_FREEBSD_NR_freebsd4_sigreturn 344
#define TARGET_FREEBSD_NR_sigtimedwait 345
#define TARGET_FREEBSD_NR_sigwaitinfo 346
#define TARGET_FREEBSD_NR___acl_get_file 347
#define TARGET_FREEBSD_NR___acl_set_file 348
#define TARGET_FREEBSD_NR___acl_get_fd 349
#define TARGET_FREEBSD_NR___acl_set_fd 350
#define TARGET_FREEBSD_NR___acl_delete_file 351
#define TARGET_FREEBSD_NR___acl_delete_fd 352
#define TARGET_FREEBSD_NR___acl_aclcheck_file 353
#define TARGET_FREEBSD_NR___acl_aclcheck_fd 354
#define TARGET_FREEBSD_NR_extattrctl 355
#define TARGET_FREEBSD_NR_extattr_set_file 356
#define TARGET_FREEBSD_NR_extattr_set_fd 357
#define TARGET_FREEBSD_NR_extattr_delete_file 358
#define TARGET_FREEBSD_NR_extattr_delete_fd 359
#define TARGET_FREEBSD_NR_getresuid 360
#define TARGET_FREEBSD_NR_getresgid 361
#define TARGET_FREEBSD_NR_kqueue 362
#define TARGET_FREEBSD_NR_kevent 363
#define TARGET_FREEBSD_NR_extattr_set_fd 364
#define TARGET_FREEBSD_NR_extattr_set_fd 365
#define TARGET_FREEBSD_NR_extattr_get_fd 366
#define TARGET_FREEBSD_NR_extattr_get_fd 367
#define TARGET_FREEBSD_NR_extattr_get_fd 368
#define TARGET_FREEBSD_NR___setugid 369
#define TARGET_FREEBSD_NR_eaccess 370
#define TARGET_FREEBSD_NR_afs3_syscall 371
#define TARGET_FREEBSD_NR_nmount 372
#define TARGET_FREEBSD_NR___mac_get_proc 373
#define TARGET_FREEBSD_NR___mac_set_proc 374
#define TARGET_FREEBSD_NR___mac_get_fd 375
#define TARGET_FREEBSD_NR___mac_set_fd 376
#define TARGET_FREEBSD_NR_kenv 377
#define TARGET_FREEBSD_NR_lchflags 378
#define TARGET_FREEBSD_NR_uuidgen 379
#define TARGET_FREEBSD_NR_sendfile 380
#define TARGET_FREEBSD_NR_mac_syscall 381
#define TARGET_FREEBSD_NR_fhstatfs 382
#define TARGET_FREEBSD_NR_ksem_close 383
#define TARGET_FREEBSD_NR_ksem_post 384
#define TARGET_FREEBSD_NR_ksem_wait 385
#define TARGET_FREEBSD_NR_ksem_trywait 386
#define TARGET_FREEBSD_NR_ksem_init 387
#define TARGET_FREEBSD_NR_ksem_open 388
#define TARGET_FREEBSD_NR_ksem_unlink 406
#define TARGET_FREEBSD_NR_ksem_getvalue 407
#define TARGET_FREEBSD_NR_ksem_destroy 408
#define TARGET_FREEBSD_NR__mac_get_pid 409
#define TARGET_FREEBSD_NR__mac_get_link 410
#define TARGET_FREEBSD_NR__mac_set_link 411
#define TARGET_FREEBSD_NR_extattr_set_link 412
#define TARGET_FREEBSD_NR_extattr_get_link 413
#define TARGET_FREEBSD_NR_extattr_delete_link 414
#define TARGET_FREEBSD_NR__mac_execve 415
#define TARGET_FREEBSD_NR_sigaction 416
#define TARGET_FREEBSD_NR_sigreturn 417
#define TARGET_FREEBSD_NR_getcontext 421
#define TARGET_FREEBSD_NR_setcontext 422
#define TARGET_FREEBSD_NR_swapcontext 423
#define TARGET_FREEBSD_NR_swapoff 424
#define TARGET_FREEBSD_NR__acl_get_link 425
#define TARGET_FREEBSD_NR__acl_set_link 426
#define TARGET_FREEBSD_NR__acl_delete_link 427
#define TARGET_FREEBSD_NR__acl_aclcheck_link 428
#define TARGET_FREEBSD_NR_sigwait 429
#define TARGET_FREEBSD_NR_thr_create 430
#define TARGET_FREEBSD_NR_thr_exit 431
#define TARGET_FREEBSD_NR_thr_self 432
#define TARGET_FREEBSD_NR_thr_kill 433
#define TARGET_FREEBSD_NR__umtx_lock 434
#define TARGET_FREEBSD_NR__umtx_unlock 435
#define TARGET_FREEBSD_NR_jail_attach 436
#define TARGET_FREEBSD_NR_extattr_list_fd 437
#define TARGET_FREEBSD_NR_extattr_list_file 438
#define TARGET_FREEBSD_NR_extattr_list_link 439
#define TARGET_FREEBSD_NR_ksem_timedwait 441
#define TARGET_FREEBSD_NR_thr_suspend 442
#define TARGET_FREEBSD_NR_thr_wake 443
#define TARGET_FREEBSD_NR_kldunloadf 444
#define TARGET_FREEBSD_NR_audit 445
#define TARGET_FREEBSD_NR_getaudit 446
#define TARGET_FREEBSD_NR_getauditon 447
#define TARGET_FREEBSD_NR_gettauid 448
#define TARGET_FREEBSD_NR_setauid 449
#define TARGET_FREEBSD_NR_getaudit 450
#define TARGET_FREEBSD_NR_setaudit 451
#define TARGET_FREEBSD_NR_getaudit_addr 452
#define TARGET_FREEBSD_NR_getaudit_addr 453
#define TARGET_FREEBSD_NR__umtx_op 454
#define TARGET_FREEBSD_NR_thr_new 455
#define TARGET_FREEBSD_NR_kmq_open 457
```c
#define TARGET_FREEBSD_NR_kmq_setattr    458
#define TARGET_FREEBSD_NR_kmq_timedreceive 459
#define TARGET_FREEBSD_NR_kmq_timedsend 460
#define TARGET_FREEBSD_NR_kmq_notify 461
#define TARGET_FREEBSD_NR_kmq_unlink 462
#define TARGET_FREEBSD_NR_abort2 463
#define TARGET_FREEBSD_NR_thr_set_name 464
#define TARGET_FREEBSD_NR_aio_fsync 465
#define TARGET_FREEBSD_NR_rtprio_thread 466
#define TARGET_FREEBSD_NR_sctp_peeloff 471
#define TARGET_FREEBSD_NR_sctp_generic_sendmsg 472
#define TARGET_FREEBSD_NR_sctp_generic_sendmsg_iov 473
#define TARGET_FREEBSD_NR_sctp_generic_recmg 474
#define TARGET_FREEBSD_NR_pread 475
#define TARGET_FREEBSD_NR_pwrite 476
#define TARGET_FREEBSD_NR_mmap 477
#define TARGET_FREEBSD_NR_lseek 478
#define TARGET_FREEBSD_NR_truncate 479
#define TARGET_FREEBSD_NR_ftruncate 480
#define TARGET_FREEBSD_NR_thr_kill2 481
#define TARGET_FREEBSD_NR_shm_open 482
#define TARGET_FREEBSD_NR_shm_unlink 483
#define TARGET_FREEBSD_NR_cpuset 484
#define TARGET_FREEBSD_NR_cpuset_setid 485
#define TARGET_FREEBSD_NR_cpuset_getid 486
#define TARGET_FREEBSD_NR_cpuset_getaffinity 487
#define TARGET_FREEBSD_NR_cpuset_setaffinity 488
#define TARGET_FREEBSD_NR_faccessat 489
#define TARGET_FREEBSD_NR_fchmodat 490
#define TARGET_FREEBSD_NR_fchownat 491
#define TARGET_FREEBSD_NR_fexecve 492
#define TARGET_FREEBSD_NR_fstatat 493
#define TARGET_FREEBSD_NR_futimesat 494
#define TARGET_FREEBSD_NR_linkat 495
#define TARGET_FREEBSD_NR_mkdirat 496
#define TARGET_FREEBSD_NR_mkfifoat 497
#define TARGET_FREEBSD_NR_mknodat 498
#define TARGET_FREEBSD_NR_openat 499
#define TARGET_FREEBSD_NR_readlinkat 500
#define TARGET_FREEBSD_NR_renameat 501
#define TARGET_FREEBSD_NR_symlinkat 502
#define TARGET_FREEBSD_NR_unlinkat 503
#define TARGET_FREEBSD_NR_posix_openpt 504
#define TARGET_FREEBSD_NR_gssd_syscall 505
#define TARGET_FREEBSD_NR_jail_get 506
#define TARGET_FREEBSD_NR_jail_set 507
#define TARGET_FREEBSD_NR_jail_remove 508
#define TARGET_FREEBSD_NR_closefrom 509
```
#define TARGET_FREEBSD_NR___semctl  510
#define TARGET_FREEBSD_NR_msgctl  511
#define TARGET_FREEBSD_NR_shmctl  512
#define TARGET_FREEBSD_NR__lpathconf 513
#define TARGET_FREEBSD_NR_cap_new  514
#define TARGET_FREEBSD_NR_cap_getrights 515
#define TARGET_FREEBSD_NR_cap_enter  516
#define TARGET_FREEBSD_NR_cap_getmode 517
#define TARGET_FREEBSD_NR_pdfork  518
#define TARGET_FREEBSD_NR_pdkill  519
#define TARGET_FREEBSD_NR_pdgetpid  520
#define TARGET_FREEBSD_NR_pselect  522
#define TARGET_FREEBSD_NR__getloginclass 523
#define TARGET_FREEBSD_NR__setloginclass 524
#define TARGET_FREEBSD_NR_rctl_get_racct  525
#define TARGET_FREEBSD_NR_rctl_get_rules 526
#define TARGET_FREEBSD_NR_rctl_get_limits 527
#define TARGET_FREEBSD_NR_rctl_add_rule 528
#define TARGET_FREEBSD_NR_rctl_remove_rule 529
#define TARGET_FREEBSD_NR_posix_fallocate  530
#define TARGET_FREEBSD_NR_posix_fadvise 531
#define TARGET_FREEBSD_NR_MAXSYSCALL  532

/*      $OpenBSD: syscall.h,v 1.101 2008/03/16 19:43:41 otto Exp $      */

/* System call numbers. */

* created from; OpenBSD: syscalls.master,v 1.90 2008/03/16 19:42:57 otto Exp */

#define TARGET_OPENBSD_NR_syscall 0
#define TARGET_OPENBSD_NR_exit 1
#define TARGET_OPENBSD_NR_fork  2
#define TARGET_OPENBSD_NR_read  3
#define TARGET_OPENBSD_NR_write 4
#define TARGET_OPENBSD_NR_open  5
#define TARGET_OPENBSD_NR_close 6
#define TARGET_OPENBSD_NR_wait4  7
#define TARGET_OPENBSD_NR_link  9
#define TARGET_OPENBSD_NR_unlink 10
#define TARGET_OPENBSD_NR_chdir 12
#define TARGET_OPENBSD_NR_fchdir 13
#define TARGET_OPENBSD_NR_mknod 14
#define TARGET_OPENBSD_NR_chmod 15
#define TARGET_OPENBSD_NR_chown 16
#define TARGET_OPENBSD_NR_break 17
#define TARGET_OPENBSD_NR_getpid 20
#define TARGET_OPENBSD_NR_mount 21
#define TARGET_OPENBSD_NR_unmount     22
#define TARGET_OPENBSD_NR_setuid      23
#define TARGET_OPENBSD_NR_getuid      24
#define TARGET_OPENBSD_NR_geteuid     25
#define TARGET_OPENBSD_NR_ptrace      26
#define TARGET_OPENBSD_NR_recvmsg     27
#define TARGET_OPENBSD_NR_sendmsg     28
#define TARGET_OPENBSD_NR_recvfrom    29
#define TARGET_OPENBSD_NR_accept      30
#define TARGET_OPENBSD_NR_getpeername 31
#define TARGET_OPENBSD_NR_getsockname 32
#define TARGET_OPENBSD_NR_access      33
#define TARGET_OPENBSD_NR_chflags     34
#define TARGET_OPENBSD_NR_fchflags    35
#define TARGET_OPENBSD_NR_sync        36
#define TARGET_OPENBSD_NR_kill        37
#define TARGET_OPENBSD_NR_getppid     39
#define TARGET_OPENBSD_NR_dup 41
#define TARGET_OPENBSD_NR_opipe       42
#define TARGET_OPENBSD_NR_getegid     43
#define TARGET_OPENBSD_NR_profil      44
#define TARGET_OPENBSD_NR_ktrace      45
#define TARGET_OPENBSD_NR_sigaction   46
#define TARGET_OPENBSD_NR_getgid      47
#define TARGET_OPENBSD_NR_sigprocmask 48
#define TARGET_OPENBSD_NR_getlogin    49
#define TARGET_OPENBSD_NR_setlogin    50
#define TARGET_OPENBSD_NR_acct        51
#define TARGET_OPENBSD_NR_sigpending  52
#define TARGET_OPENBSD_NR_osigaltstack 53
#define TARGET_OPENBSD_NR_ioctl       54
#define TARGET_OPENBSD_NR_reboot      55
#define TARGET_OPENBSD_NR_revoke      56
#define TARGET_OPENBSD_NR_symlink     57
#define TARGET_OPENBSD_NR_readlink    58
#define TARGET_OPENBSD_NR_execve      59
#define TARGET_OPENBSD_NR_umask       60
#define TARGET_OPENBSD_NR_chroot      61
#define TARGET_OPENBSD_NR_vfork       66
#define TARGET_OPENBSD_NR_sbrk        69
#define TARGET_OPENBSD_NR_sstk        70
#define TARGET_OPENBSD_NR_munmap      73
#define TARGET_OPENBSD_NR_mprotect    74
#define TARGET_OPENBSD_NR_madvise     75
#define TARGET_OPENBSD_NR_mincore     78
#define TARGET_OPENBSD_NR_getgroups   79
#define TARGET_OPENBSD_NR_setgroups   80
#define TARGET_OPENBSD_NR_getpgrp     81
#define TARGET_OPENBSD_NR_setpgid 82
#define TARGET_OPENBSD_NR_setitimer 83
#define TARGET_OPENBSD_NR_getitimer 86
#define TARGET_OPENBSD_NR_dup2 90
#define TARGET_OPENBSD_NR_fcntl 92
#define TARGET_OPENBSD_NR_select 93
#define TARGET_OPENBSD_NR_fsync 95
#define TARGET_OPENBSD_NR_setpriority 96
#define TARGET_OPENBSD_NR_socket 97
#define TARGET_OPENBSD_NR_connect 98
#define TARGET_OPENBSD_NR_getpriority 100
#define TARGET_OPENBSD_NR_sigreturn 103
#define TARGET_OPENBSD_NR_bind 104
#define TARGET_OPENBSD_NR_setssockopt 105
#define TARGET_OPENBSD_NR_list 106
#define TARGET_OPENBSD_NR_sigsuspend 111
#define TARGET_OPENBSD_NR_gettimeofday 116
#define TARGET_OPENBSD_NR_getrusage 117
#define TARGET_OPENBSD_NR_getsockopt 118
#define TARGET_OPENBSD_NR_readv 120
#define TARGET_OPENBSD_NR_writev 121
#define TARGET_OPENBSD_NR_settimeofday 122
#define TARGET_OPENBSD_NR_fchown 123
#define TARGET_OPENBSD_NR_fchmod 124
#define TARGET_OPENBSD_NR_setreuid 126
#define TARGET_OPENBSD_NR_setregid 127
#define TARGET_OPENBSD_NR_rename 128
#define TARGET_OPENBSD_NR_flock 131
#define TARGET_OPENBSD_NR_mkfifo 132
#define TARGET_OPENBSD_NR_sendto 133
#define TARGET_OPENBSD_NR_shutdown 134
#define TARGET_OPENBSD_NR_socketpair 135
#define TARGET_OPENBSD_NR_mkdir 136
#define TARGET_OPENBSD_NR_rmdir 137
#define TARGET_OPENBSD_NR_utimes 138
#define TARGET_OPENBSD_NR_adjtime 140
#define TARGET_OPENBSD_NR_setsid 147
#define TARGET_OPENBSD_NR_quotactl 148
#define TARGET_OPENBSD_NR_nfssvc 155
#define TARGET_OPENBSD_NR_getfh 161
#define TARGET_OPENBSD_NR_sysarch 165
#define TARGET_OPENBSD_NR_pread 173
#define TARGET_OPENBSD_NR_pwrite 174
#define TARGET_OPENBSD_NR_setgid 181
#define TARGET_OPENBSD_NR_setegid 182
#define TARGET_OPENBSD_NR_seteuid 183
#define TARGET_OPENBSD_NR_lfs_bmapv 184
#define TARGET_OPENBSD_NR_lfs_markv 185
#define TARGET_OPENBSD_NR__lfs_segclean        186
#define TARGET_OPENBSD_NR__lfs_segwait 187
#define TARGET_OPENBSD_NR__pathconf    191
#define TARGET_OPENBSD_NR__fpathconf   192
#define TARGET_OPENBSD_NR_swapctl     193
#define TARGET_OPENBSD_NR_getrlimit   194
#define TARGET_OPENBSD_NR_setrlimit   195
#define TARGET_OPENBSD_NR___dirententries 196
#define TARGET_OPENBSD_NR___mmap      197
#define TARGET_OPENBSD_NR___syscall   198
#define TARGET_OPENBSD_NR___s旸lect 199
#define TARGET_OPENBSD_NR___truncate 200
#define TARGET_OPENBSD_NR___sysctl    201
#define TARGET_OPENBSD_NR___sysctlc  202
#define TARGET_OPENBSD_NR_mlock       203
#define TARGET_OPENBSD_NR_munlock     204
#define TARGET_OPENBSD_NR_ftimes       205
#define TARGET_OPENBSD_NR_getpgid     206
#define TARGET_OPENBSD_NR_xfsioctl    207
#define TARGET_OPENBSD_NR_semget      208
#define TARGET_OPENBSD_NR_msgget      221
#define TARGET_OPENBSD_NR_msgsnd      226
#define TARGET_OPENBSD_NR_msgrcv      227
#define TARGET_OPENBSD_NR_shmat       228
#define TARGET_OPENBSD_NR_shmdt       230
#define TARGET_OPENBSD_NR___clock_gettime    232
#define TARGET_OPENBSD_NR___clock_settime 233
#define TARGET_OPENBSD_NR___clock_getres 234
#define TARGET_OPENBSD_NR___minherit    250
#define TARGET_OPENBSD_NR___rfork       251
#define TARGET_OPENBSD_NR___poll        252
#define TARGET_OPENBSD_NR___issetugid   253
#define TARGET_OPENBSD_NR___lchown      254
#define TARGET_OPENBSD_NR___getsid      255
#define TARGET_OPENBSD_NR___msync       256
#define TARGET_OPENBSD_NR___pipe        263
#define TARGET_OPENBSD_NR___fhopen      264
#define TARGET_OPENBSD_NR___preadv      267
#define TARGET_OPENBSD_NR___pwritev     268
#define TARGET_OPENBSD_NR___kqueue      269
#define TARGET_OPENBSD_NR___kevent      270
#define TARGET_OPENBSD_NR___mlockall    271
#define TARGET_OPENBSD_NR___munlockall  272
#define TARGET_OPENBSD_NR___getpeereid  273
#define TARGET_OPENBSD_NR___getpeereid  273
#define TARGET_OPENBSD_NR___getresuid   282
#define TARGET_OPENBSD_NR___getresgid   283
#define TARGET_OPENBSD_NR_setresgid 284
#define TARGET_OPENBSD_NR_mquery 286
#define TARGET_OPENBSD_NR_closefrom 287
#define TARGET_OPENBSD_NR_signalstack 288
#define TARGET_OPENBSD_NR_shmget 289
#define TARGET_OPENBSD_NR_semop 290
#define TARGET_OPENBSD_NR_stat 291
#define TARGET_OPENBSD_NR_fstat 292
#define TARGET_OPENBSD_NR_lstat 293
#define TARGET_OPENBSD_NR_fhstat 294
#define TARGET_OPENBSD_NR___semctl 295
#define TARGET_OPENBSD_NR_shmctl 296
#define TARGET_OPENBSD_NR_msgctl 297
#define TARGET_OPENBSD_NR_sched_yield 298
#define TARGET_OPENBSD_NR_getthrid 299
#define TARGET_OPENBSD_NR_thrsleep 300
#define TARGET_OPENBSD_NR_thrwakeup 301
#define TARGET_OPENBSD_NR_threxit 302
#define TARGET_OPENBSD_NR_thrsigdivert 303
#define TARGET_OPENBSD_NR___getcwd 304
#define TARGET_OPENBSD_NR_adjfreq 305
#define TARGET_OPENBSD_NR_getfsstat 306
#define TARGET_OPENBSD_NR_statfs 307
#define TARGET_OPENBSD_NR_fstatfs 308
#define TARGET_OPENBSD_NR_fhstatfs 309

/* syscall flags from machine/trap.h */

/* $OpenBSD: trap.h,v 1.4 2008/07/04 22:04:37 kettenis Exp $ */
/* $NetBSD: trap.h,v 1.4 1999/06/07 05:28:04 eeh Exp $ */

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*
*/
#define TARGET_OPENBSD_SYSCALL_G2RFLAG 0x400   /* on success, return to %g2 rather than npc */
#define TARGET_OPENBSD_SYSCALL_G7RFLAG 0x800   /* use %g7 as above (deprecated) */
/* $OpenBSD: errno.h,v 1.20 2007/09/03 14:37:52 millert Exp $      */
/* $NetBSD: errno.h,v 1.10 1996/01/20 01:33:53 jtc Exp $     */
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*
*   @(#)errno.h  8.5 (Berkeley) 1/21/94
*/

#define TARGET_EPERM            1               /* Operation not permitted */
#define TARGET_ENOENT           2               /* No such file or directory */
#define TARGET_ESRCH 3 /* No such process */
#define TARGET_EINTR 4 /* Interrupted system call */
#define TARGET_EIO 5 /* Input/output error */
#define TARGET_ENXIO 6 /* Device not configured */
#define TARGET_E2BIG 7 /* Argument list too long */
#define TARGET_ENOEXEC 8 /* Exec format error */
#define TARGET_EBADF 9 /* Bad file descriptor */
#define TARGET_ECHILD 10 /* No child processes */
#define TARGET_EDeadLK 11 /* Resource deadlock avoided */

/* 11 was EAGAIN */
#define TARGET_ENOMEM 12 /* Cannot allocate memory */
#define TARGET_EACCES 13 /* Permission denied */
#define TARGETFAULT 14 /* Bad address */
#define TARGET_ENOTBLK 15 /* Block device required */
#define TARGETisbury 16 /* Device busy */
#define TARGET_EEXIST 17 /* File exists */
#define TARGET_EXDEV 18 /* Cross-device link */
#define TARGET_ENODEV 19 /* Operation not supported by device */
#define TARGET_ENOTDIR 20 /* Not a directory */
#define TARGET_EISDIR 21 /* Is a directory */
#define TARGET EINVAL 22 /* Invalid argument */
#define TARGET EMFILE 23 /* Too many open files in system */
#define TARGET EINVAL 24 /* Too many open files */
#define TARGET ENOTTTY 25 /* Inappropriate ioctl for device */
#define TARGET ETXTBSY 26 /* Text file busy */
#define TARGET_EFBIG 27 /* File too large */
#define TARGET_ENOSPC 28 /* No space left on device */
#define TARGET_ESPIPE 29 /* Illegal seek */
#define TARGET EMFILE 30 /* Read-only file system */
#define TARGET EMLINK 31 /* Too many links */
#define TARGET EPIPE 32 /* Broken pipe */

/* math software */
#define TARGET_EDOM 33 /* Numerical argument out of domain */
#define TARGET ERANGE 34 /* Result too large */

/* non-blocking and interrupt i/o */
#define TARGET EAGAIN 35 /* Resource temporarily unavailable */
#define TARGET EWOULDBLOCK EAGAIN /* Operation would block */
#define TARGET EINVAL 36 /* Operation now in progress */
#define TARGET EALREADY 37 /* Operation already in progress */

/* ipc/network software -- argument errors */
#define TARGET ENOTSOCK 38 /* Socket operation on non-socket */
#define TARGET EDESTADDRREQ 39 /* Destination address required */
#define TARGET EMSGSIZE 40 /* Message too long */
#define TARGET EPROTOTYPE 41 /* Protocol wrong type for socket */
#define TARGET ENOPROTOOPT 42 /* Protocol not available */
#define TARGET_EPROTONOSUPPORT 43    /* Protocol not supported */
#define TARGET_ESOCKTNOSUPPORT 44    /* Socket type not supported */
#define TARGET_EOPNOTSUPP 45          /* Operation not supported */
#define TARGET_EPFNOSUPPORT 46        /* Protocol family not supported */
#define TARGET_EAFNOSUPPORT 47        /* Address family not supported by protocol family */
#define TARGET_EADDRINUSE 48          /* Address already in use */
#define TARGET_EADDRNOTAVAIL 49       /* Can't assign requested address */

/* ipc/network software -- operational errors */
#define TARGET_ENETDOWN 50            /* Network is down */
#define TARGET_ENETUNREACH 51         /* Network is unreachable */
#define TARGET_ENETRESET 52           /* Network dropped connection on reset */
#define TARGET_ECONNABORTED 53        /* Software caused connection abort */
#define TARGET_ECONNRESET 54          /* Connection reset by peer */
#define TARGET_ENOBUFFS 55             /* No buffer space available */
#define TARGET_EISCONN 56              /* Socket is already connected */
#define TARGET_ENOTCONN 57            /* Socket is not connected */
#define TARGET_ESHUTDOWN 58            /* Can't send after socket shutdown */
#define TARGET_EHOSTDOWN 64            /* Host is down */
#define TARGET_EHOSTUNREACH 65         /* No route to host */
#define TARGET_ENOTEMPTY 66            /* Directory not empty */

/* should be rearranged */
#define TARGET_EHOSTDOWN 64            /* Host is down */
#define TARGET_EHOSTUNREACH 65         /* No route to host */
#define TARGET_ENOTEMPTY 66            /* Directory not empty */
#define TARGET_ELOOP 62                /* Too many levels of symbolic links */
#define TARGET_ENAMETOOLONG 63         /* File name too long */

/* quotas & mush */
#define TARGET_EPROCLIM 67             /* Too many processes */
#define TARGET_EUSERS 68               /* Too many users */
#define TARGET_EDQUOT 69               /* Disk quota exceeded */

/* Network File System */
#define TARGET_ESTALE 70               /* Stale NFS file handle */
#define TARGET_EREMOTE 71              /* Too many levels of remote in path */
#define TARGET_EBADRPC 72              /* RPC struct is bad */
#define TARGET_ERPCMISMATCH 73         /* RPC version wrong */
#define TARGET_EPROGUNAVAIL 74         /* RPC prog. not avail */
#define TARGET_EPROGMISMATCH 75        /* Program version wrong */
#define TARGET_EPROCUNAVAIL 76         /* Bad procedure for program */
#define TARGET_ENOLCK 77               /* No locks available */
#define TARGET_ENOSYS 78               /* Function not implemented */
#define TARGET_EFTYPE 79               /* Inappropriate file type or format */
#define TARGET_EAUTH 80 /* Authentication error */
#define TARGET_ENEEDAUTH 81 /* Need authenticator */
#define TARGET_EIPSEC 82 /* IPsec processing failure */
#define TARGET_ENOATTR 83 /* Attribute not found */
#define TARGET_EILSEQ 84 /* Illegal byte sequence */
#define TARGET_ENOMEDIUM 85 /* No medium found */
#define TARGET_EMEDIUMTYPE 86 /* Wrong Medium Type */
#define TARGET_EOVERFLOW 87 /* Conversion overflow */
#define TARGET_EECANCELED 88 /* Operation canceled */
#define TARGET_EIDRM 89 /* Identifier removed */
#define TARGET_ENOMSG 90 /* No message of desired type */
#define TARGET_ELAST 90 /* Must be equal largest errno */
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 *
 * @(#)mman.h 8.2 (Berkeley) 1/9/95
 */

#define TARGET_FREEBSD_MAP_RESERVED0080 0x0080 /* previously misimplemented MAP_INHERIT */
#define TARGET_FREEBSD_MAP_RESERVED0100 0x0100 /* previously unimplemented MAP_NOEXTEND */
#define TARGET_FREEBSD_MAP_STACK 0x0400 /* region grows down, like a stack */
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*
*   @(#)mman.h     8.1 (Berkeley) 6/2/93
*/

#define TARGET_OPENBSD_MAP_INHERIT 0x0080 /* region is retained after exec */
#define TARGET_OPENBSD_MAP_NOEXTEND 0x0100 /* for MAP_FILE, don't change file size */
#define TARGET_OPENBSD_MAP_TRYFIXED 0x0400 /* attempt hint address, even within heap */

#define TARGET_OPENBSD_MAP_FLAGMASK 0x17f7

// XXX
#define TARGET_BSD_MAP_FLAGMASK 0x3ff7

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Capstone has been designed & implemented by Nguyen Anh Quynh <aquynh@gmail.com>


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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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ifndef TOP
TOP = $(shell while ! test -e make.rules; do cd .. ; done; pwd)
echo TOP
endif
include $(TOP)/make.rules
SUBDIRS=
ifeq ($ (SNK_BIOSEMU_APPS), 1)
SUBDIRS += x86emu
endif
CLEANSUBDIRS = $(SUBDIRS)
all:
for subdir in $(SUBDIRS) ; do $(MAKE) -C $${subdir} || exit 1 ; done

# Common targets for all subdirectories:
clean distclean depend:
for subdir in $(CLEANSUBDIRS) ; do $(MAKE) -C $${subdir} $@ ; done

Index: debug.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/debug.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- debug.c 7 Sep 2007 10:01:21 -0000 1.1
+++ debug.c 15 Jan 2008 13:49:25 -0000 1.3
@@ -52,7 +52,11 @@
  void X86EMU_trace_regs (void)
  {
-    if (DEBUG_TRACE()) {
+    if (M.x86.mode & (SYSMODE_PREFIX_DATA | SYSMODE_PREFIX_ADDR)) {
+        x86emu_dump_xregs();
+    } else {
+        x86emu_dump_regs();
+    }
  }

Index: ops2.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops2.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- ops2.c 7 Sep 2007 10:01:21 -0000 1.1
+++ ops2.c 20 Mar 2008 15:48:34 -0000 1.3
@@ -149,8 +149,69 @@
    DECODE_PRINTF2("%04x
target += (s16) M.x86.R_IP;
  }
-  printk("%-20s",buf1);
+  printk("%-20s ",buf1);
  }

static void print_decoded_instruction (void)
Index: ops2.c
====================================================================
TRACE_AND_STEP();
- if (cond)
+ if (cond) {
    M.x86.R_IP = (u16)target;
+ } 
+ DECODER_CLEAR_SEGOVR();
+ END_OF_INSTR();
+ }
+ 
+ /***********************************************************************************************************************************/
+ REMARKS:
+ Handles opcode 0x0f,0xC8-0xCF
+ ***********************************************************************************************************************************/
+ s32 x86emu_bswap(s32 reg)
+ {
+   // perform the byte swap
+   s32 temp = reg;
+   reg = (temp & 0xFF000000) >> 24;
+   reg |= (temp & 0xFF0000) >> 8;
+   reg |= (temp & 0xFF00) << 8;
+   reg |= (temp & 0xFF) << 24;
+   return reg;
+ }
+ 
+ void x86emuOp2_bswap(u8 op2)
+ {
+   /* byte swap 32 bit register */
+   START_OF_INSTR();
+   DECODER_PRINTF("BSWAP\t");
+   switch (op2) {
+     case 0xc8:
+       DECODER_PRINTF("EAX\n");
+       M.x86.R_EAX = x86emu_bswap(M.x86.R_EAX);
+       break;
+     case 0xc9:
+       DECODER_PRINTF("ECX\n");
+       M.x86.R_ECX = x86emu_bswap(M.x86.R_ECX);
+       break;
+     case 0xca:
+       DECODER_PRINTF("EDX\n");
+       M.x86.R_EDX = x86emu_bswap(M.x86.R_EDX);
+       break;
+     case 0xcb:
+       DECODER_PRINTF("EBX\n");
+       M.x86.R_EBX = x86emu_bswap(M.x86.R_EBX);
+       break;
+     case 0xcc:
+ DECODE_PRINTF("ESP\n");
+ M.x86.R_ESP = x86emu_bswap(M.x86.R_ESP);
+ break;
+ case 0xcd:
+ DECODE_PRINTF("EBP\n");
+ M.x86.R_EBP = x86emu_bswap(M.x86.R_EBP);
+ break;
+ case 0xce:
+ DECODE_PRINTF("ESI\n");
+ M.x86.R_ESI = x86emu_bswap(M.x86.R_ESI);
+ break;
+ case 0xcf:
+ DECODE_PRINTF("EDI\n");
+ M.x86.R_EDI = x86emu_bswap(M.x86.R_EDI);
+ break;
+ }
+ TRACE_AND_STEP();
  DECODE_CLEAR_SEGOVR();
  END_OF_INSTR();
}
@@ -1702,14 +1763,14 @@
/*  0xc5 */ x86emuOp2_illegal_op,
/*  0xc6 */ x86emuOp2_illegal_op,
/*  0xc7 */ x86emuOp2_illegal_op,
-/*  0xc8 */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xc9 */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xca */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xcb */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xcc */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xcd */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xce */ x86emuOp2_illegal_op,  /* TODO: bswap */
+/*  0xc8 */ x86emuOp2_bswap,
+/*  0xc9 */ x86emuOp2_bswap,
+/*  0xca */ x86emuOp2_bswap,
+/*  0xcb */ x86emuOp2_bswap,
+/*  0xcc */ x86emuOp2_bswap,
+/*  0xcd */ x86emuOp2_bswap,
+/*  0xce */ x86emuOp2_bswap,
+/*  0xcf */ x86emuOp2_bswap,
+/*  0xd0 */ x86emuOp2_illegal_op,
+/*  0xd1 */ x86emuOp2_illegal_op,
Index: ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops.c,v
retrieving revision 1.1
diff -u -u -r1.1 ops.c
--- ops.c7 Sep 2007 10:01:21 -00001.1
+++ ops.c20 Mar 2008 16:52:00 -0000
@@ -1061,7 +1061,11 @@
 imm = (s8)fetch_byte_imm();
 DECODE_PRINTF2("PUSH\t%d\n", imm);
 TRACE_AND_STEP();
-    push_word(imm);
+    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+        push_long(imm);
+    } else {
+        push_word(imm);
+    }
 DECODE_CLEAR_SEGOVR();
 END_OF_INSTR();
}
@@ -1256,8 +1260,10 @@
 target = (u16)(M.x86.R_IP + (s16)offset);
 DECODE_PRINTF2("%x\n", target);
 TRACE_AND_STEP();
-    if (cond)
+    if (cond) {
M.x86.R_IP = target;
+        JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " NEAR COND ");
+    }
 DECODE_CLEAR_SEGOVR();
 END_OF_INSTR();
}
@@ -2516,9 +2522,11 @@
 count = 1;
 if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
 /* dont care whether REPE or REPNE */
-    /* move them until CX is ZERO. */
-    count = M.x86.R_CX;
+    /* move them until (E)CX is ZERO. */
+    count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
 M.x86.R_CX = 0;
+    if (M.x86.mode & SYSMODE_32BIT_REP)
+        M.x86.R_ECX = 0;
 M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
 }
 while (count--) {
@@ -2526,6 +2534,8 @@
 store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, val);
 M.x86.R_SI += inc;
 M.x86.R_DI += inc;
+    if (M.x86.intr & INTR_HALTED)
+        break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -2559,9 +2569,11 @@
count = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
-    /* move them until CX is ZERO. */
-    count = M.x86.R_CX;
+    /* move them until (E)CX is ZERO. */
+    count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
    M.x86.R_CX = 0;
+    if (M.x86.mode & SYSMODE_32BIT_REP)
        M.x86.R_ECX = 0;
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} while (count--) {
@@ -2574,6 +2586,8 @@
} M.x86.R_SI += inc;
    M.x86.R_DI += inc;
+    if (M.x86.intr & INTR_HALTED)
+        break;
} DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -2598,16 +2612,21 @@
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* REPE */
-    /* move them until CX is ZERO. */
-    while (M.x86.R_CX != 0) {
+    /* move them until (E)CX is ZERO. */
+    while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        val1 = fetch_data_byte(M.x86.R_SI);
        val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
        cmp_byte(val1, val2);
-        M.x86.R_CX -= 1;
+        if (M.x86.mode & SYSMODE_32BIT_REP)
+            M.x86.R_ECX -= 1;
+        else
+            M.x86.R_CX -= 1;
        M.x86.R_SI += inc;
        M.x86.R_DI += inc;
        if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && (ACCESS_FLAG(F_ZF) == 0) ) break;
        if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
+        if (M.x86.intr & INTR_HALTED)
+            break;
    }
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2644,8 +2663,8 @@
TRACE_AND_STEP();
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* REPE */
    - while (M.x86.R_CX != 0) {
    + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        if (M.x86.mode & SYSMODE_PREFIX_DATA) {
            val1 = fetch_data_long(M.x86.R_SI);
            val2 = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
        }
        val2 = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
        cmp_word((u16)val1, (u16)val2);
    }
    - M.x86.R_CX -= 1;
    + if (M.x86.mode & SYSMODE_32BIT_REP)
    + M.x86.R_ECX -= 1;
    - else
    + else
    + M.x86.R_CX -= 1;
    M.x86.R_SI += inc;
    M.x86.R_DI += inc;
    if ((M.x86.mode & SYSMODE_PREFIX_REPE) && ACCESS_FLAG(F_ZF) == 0) break;
    if ((M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF)) break;
    + if (M.x86.intr & INTR_HALTED)
    + break;
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2741,11 +2765,16 @@
TRACE_AND_STEP();
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
    - /* move them until CX is ZERO. */
    - while (M.x86.R_CX != 0) {
    + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AL);
        - M.x86.R_CX -= 1;
        + if (M.x86.mode & SYSMODE_32BIT_REP)
        + M.x86.R_ECX -= 1;
        + else
        + M.x86.R_CX -= 1;
        M.x86.R_DI += inc;
        + if (M.x86.intr & INTR_HALTED)
        + break;
    }
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
    /* move them until CX is ZERO. */
    count = M.x86.R_CX;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* move them until (E)CX is ZERO. */
        count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
        M.x86.R_CX = 0;
        if (M.x86.mode & SYSMODE_32BIT_REP)
            M.x86.R_ECX = 0;
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    }
}
while (count--) {
    store_data_word_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AX);
}
M.x86.R_DI += inc;
    if (M.x86.intr & INTR_HALTED)
        break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
inc = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
    /* move them until CX is ZERO. */
    while (M.x86.R_CX != 0) {
        /* move them until (E)CX is ZERO. */
        while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            M.x86.R_AL = fetch_data_byte(M.x86.R_SI);
            M.x86.R_CX -= 1;
            if (M.x86.mode & SYSMODE_32BIT_REP)
                M.x86.R_ECX -= 1;
            else
                M.x86.R_CX -= 1;
            M.x86.R_SI += inc;
            if (M.x86.intr & INTR_HALTED)
                break;
        }
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    }
} else {
    count = 1;
}
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
    - /* move them until CX is ZERO. */
    - count = M.x86.R_CX;
    + /* move them until (E)CX is ZERO. */
    + count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
    M.x86.R_CX = 0;
    +if (M.x86.mode & SYSMODE_32BIT_REP)
    +    M.x86.R_ECX = 0;
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
while (count--) {
    @@ -2871,6 +2911,8 @@
        M.x86.R_AX = fetch_data_word(M.x86.R_SI);
    }
    M.x86.R_SI += inc;
    +    if (M.x86.intr & INTR_HALTED)
    +        break;
    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
    @@ -2894,26 +2936,36 @@
        inc = 1;
        if (M.x86.mode & SYSMODE_PREFIX_REPE) {
            /* REPE */
            - /* move them until CX is ZERO. */
            - while (M.x86.R_CX != 0) {
            + /* move them until (E)CX is ZERO. */
            + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
                    val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
                    cmp_byte(M.x86.R_AL, val2);
                    - M.x86.R_CX -= 1;
                    + if (M.x86.mode & SYSMODE_32BIT_REP)
                    +    M.x86.R_ECX -= 1;
                    else
                    +    M.x86.R_CX -= 1;
                    M.x86.R_DI += inc;
                    if (ACCESS_FLAG(F_ZF) == 0)
                        break;
                    +    if (M.x86.intr & INTR_HALTED)
                    +        break;
            }
            M.x86.mode &= ~(SYSMODE_PREFIX_REPE);
        } else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
            /* REPNE */
            - /* move them until CX is ZERO. */
            - while (M.x86.R_CX != 0) {
            + /* move them until (E)CX is ZERO. */
while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_CX : M.x86.R_CX) != 0) {
val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
cmp_byte(M.x86.R_AL, val2);
- M.x86.R_CX -= 1;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+ M.x86.R_ECX -= 1;
+ else
+ M.x86.R_CX -= 1;
M.x86.R_DI += inc;
if (ACCESS_FLAG(F_ZF))
    break; /* zero flag set means equal */
+ if (M.x86.intr & INTR_HALTED)
+ break;
}
M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
} else {
@@ -2951,8 +3003,8 @@
TRACE_AND_STEP();
if (M.x86.mode & SYSMODE_PREFIX_REPE) {
    /* REPE */
- /* move them until CX is ZERO. */
- while (M.x86.R_CX != 0) {
- + /* move them until (E)CX is ZERO. */
+ while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
if (M.x86.mode & SYSMODE_PREFIX_DATA) {
    val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
cmp_long(M.x86.R_EAX, val);
@@ -2960,16 +3012,21 @@
    val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
cmp_word(M.x86.R_AX, (u16)val);
}
- M.x86.R_CX -= 1;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+ M.x86.R_ECX -= 1;
+ else
+ M.x86.R_CX -= 1;
M.x86.R_DI += inc;
if (ACCESS_FLAG(F_ZF) == 0)
    break;
+ if (M.x86.intr & INTR_HALTED)
+ break;
}
M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
    /* REPNE */
- /* move them until CX is ZERO. */
- while (M.x86.R_CX != 0) {
- + /* move them until (E)CX is ZERO. */
+ /* move them until (E)CX is ZERO. */

while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
        val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
        cmp_long(M.x86.R_EAX, val);
    } else {
        M.x86.R_CX -= 1;
        if (M.x86.mode & SYSMODE_32BIT_REP)
            M.x86.R_ECX -= 1;
        else
            M.x86.R_CX -= 1;
        M.x86.R_DI += inc;
        if (ACCESS_FLAG(F_ZF))
            break; /* zero flag set means equal */
        if (M.x86.intr & INTR_HALTED)
            break;
    }
    M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
} else {
    DECodedPRINTF("RETF\n");
    imm = fetch_word_imm();
    DECodedPRINTF2("%x\n", imm);
    RETURN_TRACE("RETF", M.x86.saved_cs, M.x86.saved_ip);
}
TRACE_AND_STEP();
  M.x86.R_IP = pop_word();
  M.x86.R_CS = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
  M.x86.R_SP += imm;
  DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -3488,10 +3550,10 @@
{  
  START_OF_INSTR();
  DECODE_PRINTF("RETF\n");  
-RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
  M.x86.R_IP = pop_word();
  M.x86.R_CS = pop_word();
+RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
  DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -4020,8 +4082,11 @@
ip += (s16) M.x86.R_IP;
  DECODE_PRINTF2("%04x\n", ip);
  TRACE_AND_STEP();
-  M.x86.R_CX -= 1;
-  if (M.x86.R_CX != 0 && !ACCESS_FLAG(F_ZF)) /* CX != 0 and !ZF */
+  if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+    M.x86.R_ECX -= 1;
+  else
+    M.x86.R_CX -= 1;
+  if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
+  !ACCESS_FLAG(F_ZF)) /* (E)CX != 0 and ZF */
  M.x86.R_IP = ip;
  DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -4041,8 +4106,11 @@
ip += (s16) M.x86.R_IP;
  DECODE_PRINTF2("%04x\n", ip);
  TRACE_AND_STEP();
-  M.x86.R_CX -= 1;
-  if (M.x86.R_CX != 0 && ACCESS_FLAG(F_ZF)) /* CX != 0 and ZF */
+  if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+    M.x86.R_ECX -= 1;
+  else
+    M.x86.R_CX -= 1;
+  if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
+  ACCESS_FLAG(F_ZF)) /* (E)CX != 0 and ZF */
  M.x86.R_IP = ip;
  DECODE_CLEAR_SEGOVR();

END_OF_INSTR();
@@ -4062,8 +4130,11 @@
ip += (s16) M.x86.R_IP;
DECODE_PRINTF2("%04x\n", ip);
TRACE_AND_STEP();
- M.x86.R_CX -= 1;
- if (M.x86.R_CX != 0)
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+    M.x86.R_ECX -= 1;
+ else
+    M.x86.R_CX -= 1;
+ if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0) /* (E)CX != 0 */
    M.x86.R_IP = ip;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -4085,8 +4156,10 @@
target = (u16)(M.x86.R_IP + offset);
DECODE_PRINTF2("%x\n", target);
TRACE_AND_STEP();
- if (M.x86.R_CX == 0)
+ if (M.x86.R_CX == 0) {
M.x86.R_IP = target;
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " CXZ ");
+ }
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -4213,6 +4286,7 @@
ip = (s16)fetch_word_imm();
ip += (s16)M.x86.R_IP;
DECODE_PRINTF2("%04x\n", ip);
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, ip, " NEAR ");
TRACE_AND_STEP();
M.x86.R_IP = (u16)ip;
DECODE_CLEAR_SEGOVR();
@@ -4233,6 +4307,7 @@
cs = fetch_word_imm();
DECODE_PRINTF2("%04x:\", cs);
DECODE_PRINTF2("%04x\n", ip);
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, cs, ip, " FAR ");
TRACE_AND_STEP();
M.x86.R_IP = ip;
M.x86.R_CS = cs;
@@ -4254,6 +4329,7 @@
offset = (s8)fetch_byte_imm();
target = (u16)(M.x86.R_IP + offset);
DECODE_PRINTF2("%x\n", target);
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, target, " BYTE ");
TRACE_AND_STEP();
M.x86.R_IP = target;
DECODE_CLEAR_SEGOVR();
@@ -4357,6 +4433,8 @@
    DECODE_PRINTF("REPNe\n");
    TRACE_AND_STEP();
    M.x86.mode |= SYSMODE_PREFIX_REPNE;
+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+       M.x86.mode |= SYSMODE_32BIT_REP;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -4371,6 +4449,8 @@
    DECODE_PRINTF("REPE\n");
    TRACE_AND_STEP();
    M.x86.mode |= SYSMODE_PREFIX_REPE;
+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+       M.x86.mode |= SYSMODE_32BIT_REP;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -5013,12 +5093,14 @@
            JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, destval, " WORD ");
            TRACE_AND_STEP();
            M.x86.R_IP = destval;
            break;
    case 5: /* jmp far ptr ... */
        destval = fetch_data_word(destoffset);
        destval2 = fetch_data_word(destoffset + 2);
+       JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, destval2, destval, " FAR ");
        TRACE_AND_STEP();
        M.x86.R_IP = destval;
        M.x86.R_CS = destval2;
Index: prim_ops.c

===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/prim_ops.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- prim_ops.c7 Sep 2007 10:01:21 -0000
+++ prim_ops.c16 Jan 2008 14:18:15 -0000
@@ -1921,7 +1921,7 @@
 void imul_long_direct(u32 *res_lo, u32* res_hi, u32 d, u32 s)
 {
   #ifdef __HAS_LONG_LONG__

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- s64 res = (s64)d * (s64)s;
+ s64 res = (s64)(s32)d * (s64)(s32)s;

*res_lo = (u32)res;
*res_hi = (u32)(res >> 32);
@@ -2013,7 +2013,7 @@
void mul_long(u32 s)
{
    #ifdef __HAS_LONG_LONG__
-    u64 res = (u32)M.x86.R_EAX * (u32)s;
+    u64 res = (u64)M.x86.R_EAX * s;
    M.x86.R_EAX = (u32)res;
    M.x86.R_EDX = (u32)(res >> 32);
    @@ -2312,16 +2312,15 @@
    }
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-        /* in until CX is ZERO. */
-        u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+        /* in until (E)CX is ZERO. */
+        u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
            M.x86.R_ECX : M.x86.R_CX);
-        while (count--) {
-            single_in(size);
-            M.x86.R_DI += inc;
-        }
-        M.x86.R_CX = 0;
+        while (count--) {
+            single_out(size);
+            M.x86.R_SI += inc;
+        }
-        if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+        if (M.x86.mode & SYSMODE_32BIT_REP) {
            M.x86.R_ECX = 0;
        }
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
        @@ -2355,15 +2354,15 @@
    }
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-        /* out until CX is ZERO. */
-        u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+        /* out until (E)CX is ZERO. */
+        u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
            M.x86.R_ECX : M.x86.R_CX);
        while (count--) {
            single_in(size);
            M.x86.R_DI += inc;
        }
        M.x86.R_CX = 0;
if (M.x86.mode & SYSMODE_PREFIX_DATA) {
    M.x86.R_ECX = 0;
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
return 0;
}

/***************************************************************************/
@@ -264,7 +259,6 @@
{
    DB(if (DEBUG_IO_TRACE())
        printk("outb %#02x -> %#04x \n", val, addr);
    -outb(val, addr);
    return;
}

@@ -279,7 +273,6 @@
{
    DB(if (DEBUG_IO_TRACE())
        printk("outw %#04x -> %#04x \n", val, addr);
    -outw(val, addr);
    return;
}

@@ -295,7 +288,6 @@
DB(if (DEBUG_IO_TRACE())
    printk("outl %#08x -> %#04x \n", val, addr);
    -outl(val, addr);
    return;
}

@@ -405,6 +397,6 @@
void X86EMU_setMemBase(void *base, size_t size)
{
    -M.mem_base = (int) base;
    +M.mem_base = (unsigned long) base;
    M.mem_size = size;
}

Index: include/x86emu/debug.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/debug.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/debug.h7 Sep 2007 10:01:21 -0000
+++ include/x86emu/debug.h20 Mar 2008 15:25:27 -0000
@@ -40,8 +40,6 @@
#ifndef __X86EMU_DEBUG_H
#define __X86EMU_DEBUG_H

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/* checks to be enabled for "runtime" */
@ @ -78,6 +76,8 @@
#define DEBUG_SYSINT()        (M.x86.debug & DEBUG_SYSINT_F)
#define DEBUG_TRACECALL()     (M.x86.debug & DEBUG_TRACECALL_F)
#define DEBUG_TRACECALLREGS() (M.x86.debug & DEBUG_TRACECALL_REGS_F)
+#define DEBUG_TRACEJMP()     (M.x86.debug & DEBUG_TRACEJMP_F)
+#define DEBUG_TRACEJMPREGS() (M.x86.debug & DEBUG_TRACEJMP_REGS_F)
#define DEBUG_SYS()           (M.x86.debug & DEBUG_SYS_F)
#define DEBUG_MEM_TRACE()     (M.x86.debug & DEBUG_MEM_TRACE_F)
#define DEBUG_IO_TRACE()      (M.x86.debug & DEBUG_IO_TRACE_F)
@ @ -96,6 +96,8 @@
#define DEBUG_SYSINT()        0
#define DEBUG_TRACECALL()     0
#define DEBUG_TRACECALLREGS() 0
+#define DEBUG_TRACEJMP()     0
+#define DEBUG_TRACEJMPREGS() 0
#define DEBUG_SYS()           0
#define DEBUG_MEM_TRACE()     0
#define DEBUG_IO_TRACE()      0
@ @ -169,14 +171,20 @@
x86emu_dump_regs();                                     
    if (DEBUG_TRACECALL())                                     
    printk("%04x:%04x: CALL %s%04x:%04x\n", u , v, s, w, x);
-# define RETURN_TRACE(n,u,v)
+    # define RETURN_TRACE(u,v,w,x,s)
    if (DEBUG_TRACECALLREGS())									
        x86emu_dump_regs();                                     
        if (DEBUG_TRACECALL())                                     
        printk("%04x:%04x: %s
",u,v,n);
+printf("%04x:%04x: RET %s %04x:%04x\n",u,v,s,w,x);
+    # define JMP_TRACE(u,v,w,x,s)
+    if (DEBUG_TRACEJMPREGS())
+        x86emu_dump_regs();
+    if (DEBUG_TRACEJMP())
+        printk("%04x:%04x: JMP %s%04x:%04x\n", u , v, s, w, x);
else
    # define CALL_TRACE(u,v,w,x,s)
-# define RETURN_TRACE(n,u,v)
-# define RETURN_TRACE(u,v,w,x,s)
+    # define JMP_TRACE(u,v,w,x,s)
#endif
#endif DEBUG
Index: include/x86emu/regs.h
```
#define SYSMODE_PREFIX_REPNE 0x00000100
#define SYSMODE_PREFIX_DATA  0x00000200
#define SYSMODE_PREFIX_ADDR  0x00000400

// phueper: for REP(E|NE) Instructions, we need to decide wether it should be using
// the 32bit ECX register as or the 16bit CX register as count register
+#define SYSMODE_32BIT_REP   0x00000800
+#define SYSMODE_INTR_PENDING 0x10000000
+#define SYSMODE_EXTRN_INTR  0x20000000
+#define SYSMODE_HALTED      0x40000000

// phueper: for REP(E|NE) Instructions, we need to decide wether it should be using
// the 32bit ECX register as or the 16bit CX register as count register
#define INTR_SYNCH           0x1
#define INTR_ASYNCH          0x2
```

```
#define INTR_SYNCH           0x1
#define INTR_ASYNCH          0x2
```

```
Index: include/x86emu/x86emu.h
--- include/x86emu/x86emu.h 7 Sep 2007 10:01:21 -0000
+++ include/x86emu/x86emu.h 19 Oct 2007 08:42:15 -0000
@@ -47,6 +47,7 @@
     SYSMODE_SEGOVR_SS | \
     SYSMODE_PREFIX_DATA | \
 #define SYSMODE_EXTRN_INTR  0x20000000
+   SYSMODE_PREFIX_ADDR    | \n+   SYSMODE_32BIT_REP)
```

```
#define  INTR_SYNCH           0x1
#define  INTR_ASYNCH          0x2
@@ -47,6 +47,7 @@
     SYSMODE_SEGOVR_SS | \n     SYSMODE_PREFIX_DATA | \n #define SYSMODE_EXTRN_INTR  0x20000000
+   SYSMODE_PREFIX_ADDR    | \n+   SYSMODE_32BIT_REP)
```
#include <console.h>
define printk(x...) printk(BIOS_DEBUG, x)
else
+@include <stdio.h>
define printk printf
@endif

@@ -189,6 +181,8 @@
define DEBUG_TRACECALL_REGS_F 0x004000
define DEBUG_DECODE_NOPRINT_F 0x008000
define DEBUG_SAVE_IP_CS_F 0x010000
+define DEBUG_TRACEJMP_F 0x020000
+define DEBUG_TRACEJMP_REGS_F 0x040000
#define DEBUG_SYS_F (DEBUG_SVC_F|DEBUG_FS_F|DEBUG_PROC_F)

void X86EMU_trace_regs(void);
@@ -200,5 +194,4 @@
ifdef __cplusplus
}                       /* End of “C” linkage for C++ */
#endif
-
#endif /* __X86EMU_X86EMU_H */
#***************************************************************************
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# *
# * Contributors:
# * IBM Corporation - initial implementation
#***************************************************************************/

ifndef TOP
TOP = $(shell while ! test -e make.rules; do cd .. ; done; pwd)
export TOP
endif
include $(TOP)/make.rules

ROOTDIR ?= ../..

LDLFLAGS=
ASFLAGS= -I/include -Wa,-mregnames

#NOTE: -DDEBUG only needed for debugging/tracing...
CFLAGS= -UDEBUG -m64 -I. -I/include -I/include/x86emu \\
-Is(TOP)/clients/net-snk/include -Is(ROOTDIR)/include \

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-I$(ROOTDIR)/lib/libc/include -O3 -nostdinc -fno-builtin \ 
-freestanding -Wall -Wno-unused

X86EMU_OBJS= debug.o decode.o fpu.o ops2.o ops.o prim_ops.o sys.o

%.o: %.S
$(CC) $(ASFLAGS) -c -o $@ $^ 

%.o: %.c
$(CC) $(CFLAGS) -c -o $@ $^ 

all: libx86emu.a

libx86emu.a: $(X86EMU_OBJS)
$(AR) -rc $@ $(X86EMU_OBJS)
$(RANLIB) $@

clean:
$(RM) *.o *.i *.s libx86emu.a

distclean: clean

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#!/bin/bash

set -x
set -e

SVN=`which svn`
PATCH=`which patch`
DIFF_FILE=./x86emu_changes.diff

# check wether svn, patch, ... is available...

if [ ! -x $SVN ]; then
echo "subversion executable not found!"
exit -1
fi
if [ ! -x $PATCH ]; then
# download the x86emu sources from LinuxBIOS subversion

#revision known to work...
REV=496

echo "Checking out x86emu from coreboot-v3 repository revision $REV"
$SVN co svn://coreboot.org/repository/coreboot-v3/util/x86emu -r $REV

echo "Copying files..."
mkdir -p include/x86emu
cp -v x86emu/x86emu/*.c .
cp -v x86emu/x86emu/*.h include/x86emu

cp -v x86emu/include/x86emu/*.h include/x86emu

echo "Removing checkedout subversion director..."
rm -rf x86emu

echo "Patching files..."
$PATCH -p0 < x86emu_changes.diff

echo "done"
exit 0

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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 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 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
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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.

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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.

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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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Preamble

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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 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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"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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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
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is invoked, then you must make a good faith effort to ensure that,
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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
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This option is useful when you wish to copy part of the code of
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4. You may copy and distribute the Library (or a portion or
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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
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-- Wolfgang Denk
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History
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Before (and including) argparse 1.1, the argparse package was licensed under Apache License v2.0.

After argparse 1.1, all project files from the argparse project were deleted.
due to license compatibility issues between Apache License 2.0 and GNU GPL v2.

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1.1022 qrencode-libs 3.4.1 :3.el7
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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.

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
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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
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Ty Coon, President of Vice
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**1.1043 rpm-build-libs 4.11.3 :35.el7**

**1.1043.1 Available under license:**

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cost of physically performing source distribution, a complete
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customarily used for software interchange; or,

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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
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[This is the first released version of the library GPL. It is
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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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That's all there is to it!

1.1045 rpm-python 4.11.3 :35.el7

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1.1047 saxon 9.1.0.8

1.1047.1 Available under license:

```java
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.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 {

            } // end of if (f.equals(StandardNames.NAME))
    } // end of for (int a=0; a<atts.getLength(); a++)

    }
}
if (nameAttribute==null) {
    calledTemplateName = new StructuredQName("saxon", NamespaceConstant.SAXON, "error-template");
    reportAbsence("name");
    return;
}

if (allowAVT() && nameAttribute.indexOf('{')>=0) {
    calledTemplateExpression = makeAttributeValueTemplate(nameAttribute);
} else {
    try {
        calledTemplateName = makeQName(nameAttribute);
    } catch (NamespaceException err) {
        calledTemplateName = new StructuredQName("saxon", NamespaceConstant.SAXON, "error-template");
        compileError(err.getMessage(), "XTSE0280");
    } catch (XPathException err) {
        calledTemplateName = new StructuredQName("saxon", NamespaceConstant.SAXON, "error-template");
        compileError(err.getMessage(), err.getErrorCodeLocalPart());
    }
}

public void validate() throws XPathException {
    AxisIterator kids = iterateAxis(Axis.CHILD);
    while (true) {
        NodeInfo child = (NodeInfo)kids.next();
        if (child == null) {
            break;
        }
        if (child instanceof XSLWithParam) {
            // OK;
        } else if (child instanceof XSLFallback && mayContainFallback()) {
            // xsl:fallback is not allowed on xsl:call-template, but is allowed on saxon:call-template (cheat!)
        } else if (child.getNodeKind() == Type.TEXT) {
            // with xml:space=preserve, white space nodes may still be there
            if (!Whitespace.isWhite(child.getStringValueCS())) {
                compileError("No character data is allowed within xsl:call-template", "XTSE0010");
            }
        } else {
            compileError("Child element " + Err.wrap(child.getDisplayName(), Err.ELEMENT) + ", is not allowed within xsl:call-template", "XTSE0010");
        }
    }
    if (calledTemplateExpression==null &&
        !(calledTemplateName.getNamespaceURI().equals(NamespaceConstant.SAXON) &&
          !calledTemplateName.getNamespaceURI().equals(NamespaceConstant.SAXON)) &&
calledTemplateName.getLocalName().equals("error-template")) {  
  template = findTemplate(calledTemplateName);
  if (template==null) {
    return;
  }
}
calledTemplateExpression = typeCheck("name", calledTemplateExpression);
}

public void postValidate() throws XPathException {
  // check that a parameter is supplied for each required parameter
  // of the called template
  if (template != null) {
    AxisIterator declaredParams = template.iterateAxis(Axis.CHILD);
    while(true) {
      NodeInfo param = (NodeInfo)declaredParams.next();
      if (param == null) {
        break;
      }
      if (param instanceof XSLParam && ((XSLParam)param).isRequiredParam() && !((XSLParam)param).isTunnelParam()) {
        AxisIterator actualParams = iterateAxis(Axis.CHILD);
        boolean ok = false;
        while(true) {
          NodeInfo withParam = (NodeInfo)actualParams.next();
          if (withParam == null) {
            break;
          }
          if (withParam instanceof XSLWithParam &&
              ((XSLWithParam)withParam).getVariableQName().equals((XSLParam)param).getVariableQName()) {
            ok = true;
            break;
          }
        }
        if (!ok) {
          compileError("No value supplied for required parameter "+
            Err.wrap(((XSLParam)param).getVariableDisplayName(), Err.VARIABLE), "XTSE0690");
        }
      }
    }
  }
  // check that every supplied parameter is declared in the called
  // template
  AxisIterator actualParams = iterateAxis(Axis.CHILD);
while(true) {
    NodeInfo w = (NodeInfo)actualParams.next();
    if (w == null) {
        break;
    }
    if (w instanceof XSLWithParam && !((XSLWithParam)w).isTunnelParam()) {
        XSLWithParam withParam = (XSLWithParam)w;
        AxisIterator formalParams = template.iterateAxis(Axis.CHILD);
        boolean ok = false;
        while(true) {
            NodeInfo param = (NodeInfo)formalParams.next();
            if (param == null) {
                break;
            }
            if (param instanceof XSLParam &&
                ((XSLParam)param).getVariableQName().equals(withParam.getVariableQName())) {
                ok = true;
                SequenceType required = ((XSLParam)param).getRequiredType();
                withParam.checkAgainstRequiredType(required);
                break;
            }
        }
        if (!ok) {
            if (!backwardsCompatibleModeIsEnabled()) {
                compileError("Parameter " +
                    withParam.getVariableDisplayName() +
                    " is not declared in the called template", "XTSE0680");
            }
        }
    }
}

private XSLTemplate findTemplate(StructuredQName templateName)
throws XPathException {

    XSLStylesheet stylesheet = getPrincipalStylesheet();
    List toplevel = stylesheet.getTopLevel();

    // search for a matching template name, starting at the end in case of duplicates.
    // this also ensures we get the one with highest import precedence.

    for (int i=toplevel.size()-1; i>=0; i--) {
        if (toplevel.get(i) instanceof XSLTemplate) {
            XSLTemplate t = (XSLTemplate)toplevel.get(i);
            if (templateName.equals(t.getTemplateName())) {
                return t;
            }
        }
    }
}
/**
 * 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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/**
 * 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
     */

    public boolean mayContainFallback() {
        return true;
    }
}

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import net.sf.saxon.trans.Err;
import net.sf.saxon.expr.*;
import net.sf.saxon.instruct.ApplyTemplates;
import net.sf.saxon.instruct.Executable;
import net.sf.saxon.om.*;
import net.sf.saxon.sort.SortExpression;
import net.sf.saxon.sort.SortKeyDefinition;
import net.sf.saxon.trans.Mode;
import net.sf.saxon.trans.XPathException;
import net.sf.saxon.type.Type;
import net.sf.saxon.value.SequenceType;
import net.sf.saxon.value.Whitespace;

/**
 * An xsl:apply-templates element in the stylesheet
 */

public class XSLApplyTemplates extends StyleElement {
  private Expression select;
  private StructuredQName modeName; // null if no name specified or if conventional values such as #current used
  private boolean useCurrentMode = false;
  private boolean useTailRecursion = false;
  private Mode mode;
  private String modeAttribute;
  private boolean implicitSelect = false;

  /**
   * Determine whether this node is an instruction.
   * @return true - it is an instruction
   */
  public boolean isInstruction() {
    return true;
  }
}
public void prepareAttributes() throws XPathException {

    AttributeCollection atts = getAttributeList();

    String selectAtt = null;

    for (int a=0; a<atts.getLength(); a++) {
        int nc = atts.getNameCode(a);
        String f = getNamePool().getClarkName(nc);
        if (f.equals(StandardNames.MODE)) {
            modeAttribute = Whitespace.trim(atts.getValue(a));
        } else if (f.equals(StandardNames.SELECT)) {
            selectAtt = atts.getValue(a);
        } else {
            checkUnknownAttribute(nc);
        }
    }

    if (modeAttribute!=null) {
        if (modeAttribute.equals("#current")) {
            useCurrentMode = true;
        } else if (modeAttribute.equals("#default")) {
            // do nothing;
        } else {
            try {
                modeName = makeQName(modeAttribute);
            } catch (NamespaceException err) {
                compileError(err.getMessage(), "XTSE0280");
                modeName = null;
            } catch (XPathException err) {
                compileError("Mode name " + Err.wrap(modeAttribute) + " is not a valid QName", err.getErrorCodeLocalPart());
                modeName = null;
            }
        }
    }

    if (selectAtt!=null) {
        select = makeExpression(selectAtt);
    }
}

public void validate() throws XPathException {

    //checkWithinTemplate();
// get the Mode object
if (!useCurrentMode) {
    mode = getPrincipalStylesheet().getRuleManager().getMode(modeName, true);
}

// handle sorting if requested

AxisIterator kids = iterateAxis(Axis.CHILD);
while (true) {
    NodeInfo child = (NodeInfo)kids.next();
    if (child == null) {
        break;
    }
    if (child instanceof XSLSort) {
        // no-op
    } else if (child instanceof XSLWithParam) {
        // usesParams = true;
    } else if (child.getNodeKind() == Type.TEXT) {
        // with xml:space=preserve, white space nodes may still be there
        if (!Whitespace.isWhite(child.getStringValueCS())) {
            compileError("No character data is allowed within xsl:apply-templates", "XTSE0010");
        } else {
            compileError("Invalid element within xsl:apply-templates", "XTSE0010");
        }
    } else {
        compileError("Invalid element within xsl:apply-templates", "XTSE0010");
    }
}

if (select==null) {
    select = new AxisExpression(Axis.CHILD, null);
    implicitSelect = true;
}

select = typeCheck("select", select);
try {
    RoleLocator role =
        new RoleLocator(RoleLocator.INSTRUCTION, "xsl:apply-templates/select", 0);
    //role.setSourceLocator(new ExpressionLocation(this));
    role.setErrorCode("XTTE0520");
    select = TypeChecker.staticTypeCheck(select,
        SequenceType.NODE_SEQUENCE,
        false, role, makeExpressionVisitor());
} catch (XPathException err) {
    compileError(err);
}
}
/**
 * Mark tail-recursive calls on templates and functions.
 * For most instructions, this does nothing.
 */

public boolean markTailCalls() {
    useTailRecursion = true;
    return true;
}

public Expression compile(Executable exec) throws XPathException {
    SortKeyDefinition[] sortKeys = makeSortKeys();
    if (sortKeys != null) {
        useTailRecursion = false;
    }
    Expression sortedSequence = select;
    if (sortKeys != null) {
        sortedSequence = new SortExpression(select, sortKeys);
    }
    compileSequenceConstructor(exec, iterateAxis(Axis.CHILD), true);
    ApplyTemplates app = new ApplyTemplates(
        sortedSequence,
        useCurrentMode,
        useTailRecursion,
        mode,
        backwardsCompatibleModeIsEnabled(),
        implicitSelect);
    app.setActualParameters(getWithParamInstructions(exec, false, app),
        getWithParamInstructions(exec, true, app));
    return app;
}

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//
// The Original Code is: all this file.
//
// The Initial Developer of the Original Code is Michael H. Kay.
//
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("""); i9 = avt.indexOf("" + avt.substring(0, len) + "" must be doubled");
if (i8 < 0 || len < i0) {
    // found end of string
    addStringComponent(components, avt, last, len);
    break;
} else if (i8 >= 0 && (i0 < 0 || i8 < i0)) {              // found a ""
    if (i8 != i9) {                        // a "" that isn't a ""
        XPathException err = new XPathException("Closing curly brace in attribute value template " +
        exp = visitor.simplify(exp);
        last = parser.getTokenizer().currentTokenStartOffset + 1;
    }
    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;

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    //
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    //

private boolean hasRequiredParams = false;

/**
 * Determine whether this type of element is allowed to contain a template-body
 * @return true: yes, it may contain a template-body
 */

public boolean mayContainSequenceConstructor() {
    return true;
}

protected boolean mayContainParam() {
    return true;
}

/**
 * Specify that xsl:param is a permitted child
 */

protected boolean isPermittedChild(StyleElement child) {
    return (child instanceof XSLParam);
}

/**
 * Return the name of this template. Note that this may
 * be called before prepareAttributes has been called.
 * @return the name of the template as a Structured QName.
 */

public StructuredQName getTemplateName() {

    //We use null to mean "not yet evaluated"
    try {
        if (getObjectName()==null) {
            // allow for forwards references
            String nameAtt = getAttributeValue(StandardNames.NAME);
            if (nameAtt != null) {
                setObjectName(makeQName(nameAtt));
            }
        }
        return getObjectName();
    } catch (NamespaceException err) {
        return null; // the errors will be picked up later
    } catch (XPathException err) {
        return null;
    }
}
/**
 * Determine the type of item returned by this template
 * @return the item type returned
 */

protected ItemType getReturnedItemType() {
    if (requiredType==null) {
        return getCommonChildItemType();
    } else {
        return requiredType.getPrimaryType();
    }
}

private int getMinImportPrecedence() {
    return getContainingStylesheet().getMinImportPrecedence();
}

public void prepareAttributes() throws XPathException {
    AttributeCollection atts = getAttributeList();

    for (int a=0; a<atts.getLength(); a++) {
        int nc = atts.getNameCode(a);
        String f = getNamePool().getClarkName(nc);
        if (f.equals(StandardNames.MODE)) {
            modeAtt = Whitespace.trim(atts.getValue(a));
        } else if (f.equals(StandardNames.NAME)) {
            nameAtt = Whitespace.trim(atts.getValue(a));
        } else if (f.equals(StandardNames.MATCH)) {
            matchAtt = atts.getValue(a);
        } else if (f.equals(StandardNames.PRIORITY)) {
            priorityAtt = Whitespace.trim(atts.getValue(a));
        } else if (f.equals(StandardNames.AS)) {
            asAtt = atts.getValue(a);
        } else {
            checkUnknownAttribute(nc);
        }
    }

    try {
        if (modeAtt==null) {
            modeNames = new StructuredQName[1];
            modeNames[0] = Mode.DEFAULT_MODE_NAME;
        } else {
            if (matchAtt==null) {
                compileError("The mode attribute must be absent if the match attribute is absent", "XTSE0500");
            }
        }
    }

    if (matchAtt==null) {
        compileError("The mode attribute must be absent if the match attribute is absent", "XTSE0500");
    }

    // mode is a space-separated list of mode names, or "/default", or "/all"
int count = 0;
boolean allModes = false;
StringTokenizer st = new StringTokenizer(modeAtt, " \t\n\r", false);
while (st.hasMoreTokens()) {
    st.nextToken();
    count++;
}

if (count==0) {
    compileError("The mode attribute must not be empty", "XTSE0550");
}

modeNames = new StructuredQName[count];
count = 0;
st = new StringTokenizer(modeAtt, " \t\n\r", false);
while (st.hasMoreTokens()) {
    String s = st.nextToken();
    StructuredQName mname;
    if ("#default".equals(s)) {
        mname = Mode.DEFAULT_MODE_NAME;
    } else if ("#all".equals(s)) {
        allModes = true;
        mname = Mode.ALL_MODES;
    } else {
        mname = makeQName(s);
    }
    for (int e=0; e < count; e++) {
        if (modeNames[e].equals(mname)) {
            compileError("In the list of modes, the value " + s + " is duplicated", "XTSE0550");
        }
    }
    modeNames[count++] = mname;
}
if (allModes && (count>1)) {
    compileError("mode=#all' cannot be combined with other modes", "XTSE0550");
}
}
} catch (NamespaceException err) {
    compileError(err.getMessage(), "XTSE0280");
} catch (XPathException err) {
    if (err.getErrorCodeLocalPart() == null) {
        err.setErrorCode("XTSE0280");
    } else if (err.getErrorCodeLocalPart().equals("XTSE0020")) {
        err.setErrorCode("XTSE0550");
    }
    err.setIsStaticError(true);
    compileError(err);
try{
    if (nameAtt!=null) {
        StructuredQName qName = makeQName(nameAtt);
        setObjectName(qName);
        diagnosticId = nameAtt;
    }
} catch (NamespaceException err) {
    compileError(err.getMessage(), "XTSE0280");
} catch (XPathException err) {
    if (err.getCodeLocalPart() == null) {
        err.setCode("XTSE0280");
    }
    err.setIsStaticError(true);
    compileError(err);
}

prioritySpecified = (priorityAtt != null);
if (prioritySpecified) {
    if (matchAtt==null) {
        compileError("The priority attribute must be absent if the match attribute is absent", "XTSE0500");
    }
    try {
        // it's got to be a valid decimal, but we want it as a double, so parse it twice
        if (!DecimalValue.castableAsDecimal(priorityAtt)) {
            compileError("Invalid numeric value for priority (" + priority + ")", "XTSE0530");
        }
        priority = Double.parseDouble(priorityAtt);
    } catch (NumberFormatException err) {
        // shouldn't happen
        compileError("Invalid numeric value for priority (" + priority + ")", "XTSE0530");
    }
}

if (matchAtt != null) {
    match = makePattern(matchAtt);
    if (diagnosticId == null) {
        diagnosticId = "match=" + matchAtt + "\n";
        if (modeAtt != null) {
            diagnosticId += "mode=" + modeAtt + "\n";
        }
    }
}

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().getErrorHandler().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();
}
public Expression compile(Executable exec) throws XPathException {

    Expression block = compileSequenceConstructor(exec, iterateAxis(Axis.CHILD), true);
    if (block == null) {
        block = Literal.makeEmptySequence();
    }
    compiledTemplate.setMatchPattern(match);
    compiledTemplate.setBody(block);
    compiledTemplate.setStackFrameMap(stackFrameMap);
    compiledTemplate.setExecutable(getExecutable());
    compiledTemplate.setSystemId(getSystemId());
    compiledTemplate.setLineNumber(getLineNumber());
    compiledTemplate.setHasRequiredParams(hasRequiredParams);
    compiledTemplate.setRequiredType(requiredType);

    Expression exp = null;
    try {
        exp = makeExpressionVisitor().simplify(block);
    } catch (XPathException e) {
        compileError(e);
    }

    try {
        if (requiredType != null) {
            RoleLocator role =
                new RoleLocator(RoleLocator.TEMPLATE_RESULT, diagnosticId, 0);
            //role.setSourceLocator(new ExpressionLocation(this));
            role.setErrorCode("XTTE0505");
            exp = TypeChecker.staticTypeCheck(exp, requiredType, false, role, makeExpressionVisitor());
        }
    } catch (XPathException err) {
        compileError(err);
    }

    compiledTemplate.setBody(exp);
    compiledTemplate.init (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)
 */

class getSlotManager() {
    return stackFrameMap;
}

/**
 * Get the compiled template
 * @return the compiled template
 */

class 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;
}
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.tree.DocumentImpl;
import org.xml.sax.Locator;
import javax.xml.transform.Templates;
import javax.xml.transform.TransformerException;
import javax.xml.transform.sax.TemplatesHandler;

/**
 * &lt;b&gt;TemplatesHandlerImpl&lt;/b&gt; implements the javax.xml.transform.sax.TemplatesHandler
 * interface. It acts as a ContentHandler which receives a stream of
 * SAX events representing a stylesheet, and returns a Templates object that
 * represents the compiled form of this stylesheet.
 * @author Michael H. Kay
 */

public class TemplatesHandlerImpl extends ReceivingContentHandler implements TemplatesHandler {

    private TreeBuilder builder;
    private StyleNodeFactory nodeFactory;
private Templates templates;
private String systemId;

/**
* Create a TemplatesHandlerImpl and initialise variables. The constructor is protected, because
* the Filter should be created using newTemplatesHandler() in the SAXTransformerFactory
* class
* @param config the Saxon configuration
*/

protected TemplatesHandlerImpl(Configuration config) {
    setPipelineConfiguration(config.makePipelineConfiguration());

    nodeFactory = new StyleNodeFactory(config.getPipelineConfiguration().getErrorListener());

    builder = new TreeBuilder();
    builder.setPipelineConfiguration(getPipelineConfiguration());
    builder.setNodeFactory(nodeFactory);
    builder.setLineNumbering(true);

    StartTagBuffer startTagBuffer = new StartTagBuffer();

    UseWhenFilter useWhenFilter = new UseWhenFilter(startTagBuffer);
    useWhenFilter.setUnderlyingReceiver(builder);
    useWhenFilter.setPipelineConfiguration(getPipelineConfiguration());

    startTagBuffer.setUnderlyingReceiver(useWhenFilter);
    startTagBuffer.setPipelineConfiguration(getPipelineConfiguration());

    StylesheetStripper styleStripper = new StylesheetStripper();
    styleStripper.setUnderlyingReceiver(startTagBuffer);
    styleStripper.setPipelineConfiguration(getPipelineConfiguration());

    CommentStripper commentStripper = new CommentStripper();
    commentStripper.setUnderlyingReceiver(styleStripper);
    commentStripper.setPipelineConfiguration(getPipelineConfiguration());

    setReceiver(commentStripper);
}

/**
* Get the Templates object to be used for a transformation
*/

public Templates getTemplates() {
    if (templates==null) {

DocumentImpl doc = (DocumentImpl)builder.getCurrentRoot();
builder.reset();
if (doc==null) {
    return null;
}

final Configuration config = getConfiguration();
CompilerInfo info = new CompilerInfo();
info.setURIResolver(config.getURIResolver());
info.setErrorListener(config.getErrorListener());
info.setCompileWithTracing(config.isCompileWithTracing());
PreparedStylesheet sheet = new PreparedStylesheet(config, info);

try {
    sheet.setStylesheetDocument(doc, nodeFactory);
    templates = sheet;
} catch (XPathException tce) {
    if (!tce.hasBeenReported()) {
        try {
            info.getErrorListener().fatalError(tce);
        } catch (TransformerException e2) {
            //
        }
    }
    // don't know why we aren't allowed to just throw it!
    throw new IllegalStateException(tce.getMessage());
}

return templates;

/**
 * Set the SystemId of the document. Note that if this method is called, any locator supplied
 * to the setDocumentLocator() method is ignored. This also means that no line number information
 * will be available.
 * @param url the system ID (base URI) of the stylesheet document, which will be used in any error
 * reporting and also for resolving relative URIs in xsl:include and xsl:import. It will also form
 * the static base URI in the static context of XPath expressions.
 */

public void setSystemId(String url) {
    systemId = url;
    builder.setSystemId(url);
    super.setDocumentLocator(new Locator() {
        public int getColumnNumber() {
            return -1;
        }
    });
}
public int getLineNumber() {
    return -1;
}

public String getPublicId() {
    return null;
}

public String getSystemId() {
    return systemId;
}
});

/**
 * Callback interface for SAX: not for application use
 */

public void setDocumentLocator (final Locator locator) {
    // If the user has called setSystemId(), we use that system ID in preference to this one,
    // which probably comes from the XML parser possibly via some chain of SAX filters
    if (systemId == null) {
        super.setDocumentLocator(locator);
    }
}

/**
 * Get the systemId of the document
 */

public String getSystemId() {
    return systemId;
}

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//
// The Original Code is: all this file.
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>
 *
 * 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.
 */

public class ComplexContentProcessor implements EventIterator {

    private Configuration config;
    private EventIterator base;
    private PullEvent[] startEventStack;  // contains either startElement or startDocument events
    private int depth;
    private NodeInfo pendingTextNode;
    private boolean pendingTextNodeIsMutable;
    private boolean prevAtomic = false;
    private PullEvent pendingOutput = null;

    /**
     * Create the ComplexContentProcessor
     * @param config the Saxon Configuration
     * @param base the EventIterator that delivers the content of the element or document node
public ComplexContentProcessor(Configuration config, EventIterator base) {
    this.config = config;
    this.base = EventStackIterator.flatten(base);
    startEventStack = new PullEvent[20];
    depth = 0;
}

/**
 * Get the next event in the sequence. This will never be an EventIterator.
 *
 * @return the next event, or null when the sequence is exhausted
 * @throws net.sf.saxon.trans.XPathException
 *          if a dynamic evaluation error occurs
 */

public PullEvent next() throws XPathException {
    if (pendingOutput != null) {
        PullEvent next = pendingOutput;
        pendingOutput = null;
        return next;
    } else {
        return advance();
    }
}

private PullEvent advance() throws XPathException {
    while (true) {
        if (depth == 0) {
            PullEvent e = base.next();
            if (e instanceof StartElementEvent) {
                push(e);
            } else if (e instanceof StartDocumentEvent) {
                push(e);
            }
            return e;
        } else {
            PullEvent e = base.next();
            if (e instanceof StartElementEvent) {
                prevAtomic = false;
                push(e);
                if (pendingTextNode != null) {
                    pendingOutput = e;
                    PullEvent next = pendingTextNode;
                    pendingTextNode = null;
                    return next;
                } else {
                    }
                }
            } else {
                PullEvent e = base.next();
                if (e instanceof StartElementEvent) {
                    prevAtomic = false;
                    push(e);
                    if (pendingTextNode != null) {
                        pendingOutput = e;
                        PullEvent next = pendingTextNode;
                        pendingTextNode = null;
                        return next;
                    } else {
                        }
                    }
                } else {
                    }
return e;
}
else if (e instanceof StartDocumentEvent) {
    prevAtomic = false;
push(e);
    if (pendingTextNode != null) {
        pendingOutput = e;
        PullEvent next = pendingTextNode;
pendingTextNode = null;
        return next;
    } else {
        //continue;
    }
}
else if (e instanceof EndElementEvent) {
    prevAtomic = false;
pop();
    if (pendingTextNode != null) {
        pendingOutput = e;
        PullEvent next = pendingTextNode;
pendingTextNode = null;
        return next;
    } else {
        return e;
    }
}
else if (e instanceof EndDocumentEvent) {
    prevAtomic = false;
pop();
    if (pendingTextNode != null) {
        pendingOutput = e;
        PullEvent next = pendingTextNode;
pendingTextNode = null;
        return next;
    } else {
        return e;
    }
}
else if (e instanceof NodeInfo) {
    prevAtomic = false;
    switch (((NodeInfo)e).getNodeKind()) {
    case Type.TEXT:
        if (pendingTextNode == null) {
            pendingTextNode = (NodeInfo)e;
pendingTextNodeIsMutable = false;
        } else if (pendingTextNodeIsMutable) {
            FastStringBuffer sb = (FastStringBuffer)((Orphan)pendingTextNode).getStringValueCS();
sb.append(((NodeInfo)e).getStringValueCS());
        } else {
            Orphan o = new Orphan(config);
o.setNodeKind(Type.TEXT);
FastStringBuffer sb = new FastStringBuffer(40);
sb.append(pendingTextNode.getStringValueCS());
sb.append(((NodeInfo)e).getStringValueCS());
o.setStringValue(sb);
pendingTextNode = o;
pendingTextNodeIsMutable = true;
}
continue;
default:
if (pendingTextNode != null) {
pendingOutput = e;
PullEvent next = pendingTextNode;
pendingTextNode = null;
return next;
} else {
return e;
}
} else if (e instanceof AtomicValue) {
if (prevAtomic) {
FastStringBuffer sb = (FastStringBuffer)((Orphan)pendingTextNode).getStringValueCS();
sb.append(" ");
sb.append(((AtomicValue)e).getStringValueCS());
} else if (pendingTextNode != null) {
prevAtomic = true;
if (pendingTextNodeIsMutable) {
FastStringBuffer sb = (FastStringBuffer)((Orphan)pendingTextNode).getStringValueCS();
sb.append(((AtomicValue)e).getStringValueCS());
} else {
Orphan o = new Orphan(config);
o.setNodeKind(Type.TEXT);
FastStringBuffer sb = new FastStringBuffer(40);
sb.append(pendingTextNode.getStringValueCS());
sb.append(((AtomicValue)e).getStringValueCS());
o.setStringValue(sb);
pendingTextNode = o;
pendingTextNodeIsMutable = true;
}
} else {
prevAtomic = true;
Orphan o = new Orphan(config);
o.setNodeKind(Type.TEXT);
FastStringBuffer sb = new FastStringBuffer(40);
sb.append(((AtomicValue)e).getStringValueCS());
o.setStringValue(sb);
pendingTextNode = o;
pendingTextNodeIsMutable = true;
}
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 nspl = 0; nspl < nsp.length; nspl++) {
            if (nsp[nspl] == -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[nspl] == nsq[nsqi]) {
                            nsp[nspl] = -1;
                            retained--;
                            break outer;
                        } else if (nsp[nspl]>>16 == nsq[nsqi]>>16) {
                            break outer;
                        }
                    } else if (nsp[nspl]>>16 >= nsq[nsqi]>>16) {
                        break outer;
                    }
                }
            }
        }
    }
    if (retained < nsp.length) {
        int[] nsr = new int[retained];
    }
}
int nsri = 0;
for (int nspi=0; nspi<nsp.length; nspi++) {
    if (nsp[nspi] != -1) {
        nsr[nsri++] = nsp[nspi];
        if (nsri == retained) {
            break;
        }
    }
}
((StartElementEvent)p).setLocalNamespaces(nsr);
}
startEventStack[depth++] = p;
prevAtomic = false;
}
private void pop() {
    depth--;
    prevAtomic = false;
}

/**
 * Determine whether the EventIterator returns a flat sequence of events, or whether it can return
 * nested event iterators
 *
 * @return true if the next() method is guaranteed never to return an EventIterator
 */

public boolean isFlatSequence() {
    return true;
}

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//
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package net.sf.saxon.pull;

import net.sf.saxon.event.PipelineConfiguration;
import net.sf.saxon.om.*;
import net.sf.saxon.trans.XPathException;
import net.sf.saxon.type.AtomicType;
import net.sf.saxon.type.Type;
import net.sf.saxon.type.TypeHierarchy;
import net.sf.saxon.value.AtomicValue;
import javax.xml.transform.SourceLocator;
import java.util.List;

/**
 * This class delivers any XPath sequence through the pull interface. Atomic values
 * in the sequence are supplied unchanged, as are top-level text, comment, attribute,
 * namespace, and processing-instruction nodes. Elements and documents appearing in
 * the input sequence are supplied as a sequence of events that walks recursively
 * down the subtree rooted at that node. The input is supplied in the form of a
 * SequenceIterator.
 */

public class PullFromIterator implements PullProvider {

    private SequenceIterator base;
    private PullProvider treeWalker = null;
    private PipelineConfiguration pipe;
    private int currentEvent = START_OF_INPUT;

    /**
     * Create a PullProvider that wraps a supplied SequenceIterator
     * @param base the sequence iterator to be wrapped
     */
    public PullFromIterator(SequenceIterator base) {
        this.base = base;
    }

    /**
     * Set configuration information. This must only be called before any events
     * have been read.
     */
    public void setPipelineConfiguration(PipelineConfiguration pipe) {
        this.pipe = pipe;
    }
/**
 * Get configuration information.
 */

public PipelineConfiguration getPipelineConfiguration() {
    return pipe;
}

/**
 * Get the next event
 *
 * @return an integer code indicating the type of event. The code
 *         {@link #END_OF_INPUT} is returned at the end of the sequence.
 */

public int next() throws XPathException {
    if (treeWalker == null) {
        Item item = base.next();
        if (item == null) {
            currentEvent = END_OF_INPUT;
            return currentEvent;
        } else if (item instanceof UnconstructedParent) {
            // this represents a lazily-evaluated element or document node constructor
            treeWalker = ((UnconstructedParent)item).getPuller();
            //treeWalker.setPipelineConfiguration(pipe);
            currentEvent = treeWalker.next();
            return currentEvent;
        } else if (item instanceof AtomicValue) {
            currentEvent = ATOMIC_VALUE;
            return currentEvent;
        } else {
            switch (((NodeInfo)item).getNodeKind()) {
                case Type.TEXT:
                    currentEvent = TEXT;
                    return currentEvent;

                case Type.COMMENT:
                    currentEvent = COMMENT;
                    return currentEvent;

                case Type.PROCESSING_INSTRUCTION:
                    currentEvent = PROCESSING_INSTRUCTION;
                    return currentEvent;

                case Type.ATTRIBUTE:
                    currentEvent = ATTRIBUTE;
                    return currentEvent;
            }
        }
    } else if (item instanceof UnconstructedParent) {
        // this represents a lazily-evaluated element or document node constructor
        treeWalker = ((UnconstructedParent)item).getPuller();
        //treeWalker.setPipelineConfiguration(pipe);
        currentEvent = treeWalker.next();
        return currentEvent;
    } else if (item instanceof AtomicValue) {
        currentEvent = ATOMIC_VALUE;
        return currentEvent;
    } else {
        switch (((NodeInfo)item).getNodeKind()) {
            case Type.TEXT:
                currentEvent = TEXT;
                return currentEvent;

            case Type.COMMENT:
                currentEvent = COMMENT;
                return currentEvent;

            case Type.PROCESSING_INSTRUCTION:
                currentEvent = PROCESSING_INSTRUCTION;
                return currentEvent;

            case Type.ATTRIBUTE:
                currentEvent = ATTRIBUTE;
                return currentEvent;
        }
    }
}
case Type.NAMESPACE:
    currentEvent = NAMESPACE;
    return currentEvent;

case Type.ELEMENT:
    case Type.DOCUMENT:
        treeWalker = TreeWalker.makeTreeWalker((NodeInfo)item);
        treeWalker.setPipelineConfiguration(pipe);
        currentEvent = treeWalker.next();
        return currentEvent;

    default:
        throw new IllegalStateException();

    }
}

} else {
    // there is an active TreeWalker: just return its next event
    int event = treeWalker.next();
    if (event == END_OF_INPUT) {
        treeWalker = null;
        currentEvent = next();
    } else {
        currentEvent = event;
    }
    return currentEvent;
}

/**
 * Get the event most recently returned by next(), or by other calls that change
 * the position, for example getStringValue() and skipToMatchingEnd(). This
 * method does not change the position of the PullProvider.
 *
 * @return the current event
 */

public int current() {
    return currentEvent;
}

/**
 * Get the attributes associated with the current element. This method must
 * be called only after a START_ELEMENT event has been notified. The contents
 * of the returned AttributeCollection are guaranteed to remain unchanged
 * until the next START_ELEMENT event, but may be modified thereafter. The object
should not be modified by the client.

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(), getValue(), or getTypedValue().

@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.

It is permissible for this method to return namespace declarations that are redundant. 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.

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(), getValue(), or getTypedValue().

/**
 * Skip the current subtree. This method may be called only immediately after

public NamespaceDeclarations getNamespaceDeclarations() throws XPathException {
    if (treeWalker != null) {
        return treeWalker.getNamespaceDeclarations();
    } else {
        throw new IllegalStateException();
    }
}

/**
 * Skip the current subtree. This method may be called only immediately after

* a START_DOCUMENT or START_ELEMENT event. This call returns the matching
* END_DOCUMENT or END_ELEMENT event; the next call on next() will return
* the event following the END_DOCUMENT or END_ELEMENT.
*/

public int skipToMatchingEnd() throws XPathException {
    if (treeWalker != null) {
        return treeWalker.skipToMatchingEnd();
    } else {
        throw new IllegalStateException();
    }
}

/**
 * Close the event reader. This indicates that no further events are required.
 * It is not necessary to close an event reader after {link #END_OF_INPUT} has
 * been reported, but it is recommended to close it if reading terminates
 * prematurely. Once an event reader has been closed, the effect of further
 * calls on next() is undefined.
 */

public void close() {
    if (treeWalker != null) {
        treeWalker.close();
    }
}

/**
 * Get the nameCode identifying the name of the current node. This method
 * can be used after the {link #START_ELEMENT}, {link #PROCESSING_INSTRUCTION},
 * {link #ATTRIBUTE}, or {link #NAMESPACE} events. With some PullProvider implementations,
 * including this one, it can also be used after {link #END_ELEMENT}.
 * If called at other times, the result is undefined and may result in an IllegalStateException.
 * If called when the current node is an unnamed namespace node (a node representing the default namespace)
 * the returned value is -1.
 *
 * @return the nameCode. The nameCode can be used to obtain the prefix, local name,
 * and namespace URI from the name pool.
 */

public int getNameCode() {
    if (treeWalker != null) {
        return treeWalker.getNameCode();
    } else {
        Item item = base.current();
        if (item instanceof NodeInfo) {
            return ((NodeInfo)item).getNameCode();
        } else {
throw new IllegalStateException();

/**
 * Get the fingerprint of the name of the element. This is similar to the nameCode, except that
 * it does not contain any information about the prefix: so two elements with the same fingerprint
 * have the same name, excluding prefix. This method
 * can be used after the {@link #START_ELEMENT}, {@link #END_ELEMENT}, or {processing instruction},
 * {attribute}, or {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>
 * <p>
 * If the most recent event was a {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 {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 {
        throw new XPathException();
    }
}
Item item = base.current();
return item.getStringValueCS();
}
}

/**
 * Get an atomic value. This call may be used only when the last event reported was
 * ATOMIC_VALUE. This indicates that the PullProvider is reading a sequence that contains
 * a free-standing atomic value; it is never used when reading the content of a node.
 */

public AtomicValue getAtomicValue() {
if (currentEvent == ATOMIC_VALUE) {
    return (AtomicValue)base.current();
} else {
    throw new IllegalStateException();
}
}

/**
 * Get the type annotation of the current attribute or element node, or atomic value.
 * The result of this method is undefined unless the most recent event was START_ELEMENT,
 * ATTRIBUTE, or ATOMIC_VALUE.
 *
 * @return the type annotation. This code is the fingerprint of a type name, which may be
 * resolved to a [ @link net.sf.saxon.type.SchemaType ] by access to the Configuration.
 */

public int getTypeAnnotation() {
if (treeWalker != null) {
    return treeWalker.getTypeAnnotation();
} else {
    Item item = base.current();
    if (item instanceof NodeInfo) {
        return ((NodeInfo)item).getTypeAnnotation();
    } else {
        final TypeHierarchy th = pipe.getConfiguration().getTypeHierarchy();
        return ((AtomicType)((AtomicValue)item).getItemType(th)).getFingerprint();
    }
}
}

/**
 * Get the location of the current event.
 * For an event stream representing a real document, the location information
 * should identify the location in the lexical XML source. For a constructed document, it should
 * identify the location in the query or stylesheet that caused the node to be created.
 * A value of null can be returned if no location information is available.
 */
public SourceLocator getSourceLocator() {
    if (treeWalker != null) {
        return treeWalker.getSourceLocator();
    } else {
        return null;
    }
}

/**
 * Get a list of unparsed entities.
 *
 * @return a list of unparsed entities, or null if the information is not available, or
 * an empty list if there are no unparsed entities.
 */

public List getUnparsedEntities() {
    return null;
}

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//
package net.sf.saxon.pull;

import net.sf.saxon.om.NamespaceResolver;
import javax.xml.namespace.NamespaceContext;
import java.util.ArrayList;
import java.util.Iterator;
import java.util.List;
/**
 * This class bridges between the JAXP 1.3 NamespaceContext interface and Saxon's
 * equivalent NamespaceResolver interface. It allows any implementation of the Saxon
 * NamespaceResolver to be wrapped as a JAXP NamespaceContext.
 */

public class NamespaceContextImpl implements NamespaceContext, NamespaceResolver {

    NamespaceResolver resolver;

    /**
     * Constructor: wrap a Saxon NamespaceResolver as a JAXP NamespaceContext
     * @param resolver the Saxon NamespaceResolver
     */

    public NamespaceContextImpl(NamespaceResolver resolver) {
        this.resolver = resolver;
    }

    /**
     * Get the namespace URI corresponding to a given prefix. Return null
     * if the prefix is not in scope.
     * @param prefix the namespace prefix
     * @param useDefault true if the default namespace is to be used when the
     * prefix is ""
     * @return the uri for the namespace, or null if the prefix is not in scope
     */

    public String getURIForPrefix(String prefix, boolean useDefault) {
        return resolver.getURIForPrefix(prefix, useDefault);
    }

    /**
     * Get an iterator over all the prefixes declared in this namespace context. This will include
     * the default namespace (prefix="") and the XML namespace where appropriate
     */

    public Iterator iteratePrefixes() {
        return resolver.iteratePrefixes();
    }

    /**
     * Implement the JAXP getNamespaceURI() method in terms of the Saxon-specific methods
     * @param prefix a namespace prefix
     * @return the corresponding URI, if the prefix is bound, or "" otherwise
     */
public String getNamespaceURI(String prefix) {
    if (prefix.equals("xmlns")) {
        return "http://www.w3.org/2000/xmlns/";
    }
    return resolver.getURIForPrefix(prefix, true);
}

/**
 * Get the prefix bound to a particular namespace URI, if there is one, or null if not (JAXP method)
 * @param uri the namespace URI
 * @return the prefix bound to the URI if there is one, or null if not
 */

public String getPrefix(String uri) {
    Iterator prefixes = iteratePrefixes();
    while (prefixes.hasNext()) {
        String p = (String)prefixes.next();
        String u = resolver.getURIForPrefix(p, true);
        if (u.equals(uri)) {
            return p;
        }
    }
    return null;
}

/**
 * Get all the prefixes mapped to a given namespace URI (JAXP method)
 * @param uri the namespace URI
 * @return an iterator over all the prefixes bound to this namespace URI
 */

public Iterator getPrefixes(String uri) {
    List list = new ArrayList(4);
    Iterator prefixes = iteratePrefixes();
    while (prefixes.hasNext()) {
        String p = (String)prefixes.next();
        String u = resolver.getURIForPrefix(p, true);
        if (u.equals(uri)) {
            list.add(p);
        }
    }
    return list.iterator();
}

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package net.sf.saxon.tinytree;

import net.sf.saxon.Configuration;
import net.sf.saxon.trans.Err;
import net.sf.saxon.om./*;
import net.sf.saxon.pattern.AnyNodeTest;
import net.sf.saxon.pattern.NameTest;
import net.sf.saxon.pattern.NodeTest;
import net.sf.saxon.trans.XPathException;
import net.sf.saxon.type.SchemaType;
import net.sf.saxon.type.Type;
import net.sf.saxon.value.UntypedAtomicValue;
import net.sf.saxon.value.Value;
import javax.xml.transform.SourceLocator;

/**
 * A node in a TinyTree representing an XML element, character content, or attribute.<p>
 * This is the top-level class in the implementation class hierarchy; it essentially contains
 * all those methods that can be defined using other primitive methods, without direct access
 * to data.
 * *
 * @author Michael H. Kay
 */

public abstract class TinyNodeImpl implements NodeInfo, FingerprintedNode, SourceLocator {

    protected TinyTree tree;
    protected int nodeNr;
    protected TinyNodeImpl parent = null;

    /**
     * Characteristic letters to identify each type of node, indexed using the node type
* values. These are used as the initial letter of the result of generate-id()
*/

public static final char[] NODE_LETTER =
    {'x', 'e', 'a', 't', 'x', 'x', 'x', 'p', 'c', 'r', 'x', 'x', 'n'};

/**
 * Get the value of the item as a CharSequence. This is in some cases more efficient than
 * the version of the method that returns a String.
 */

public CharSequence getStringValueCS() {
    return getStringValue();
}

/**
 * Get the type annotation of this node, if any
 */

public int getTypeAnnotation() {
    return -1;
}

/**
 * Get the column number of the node.
 * The default implementation returns -1, meaning unknown
 */

public int getColumnNumber() {
    return tree.getColumnNumber(nodeNr);
}

/**
 * Get the public identifier of the document entity containing this node.
 * The default implementation returns null, meaning unknown
 */

public String getPublicId() {
    return null;
}

/**
 * Get the typed value of this node.
 * If there is no type annotation, we return the string value, as an instance
 * of xs:untypedAtomic
 */

public SequenceIterator getTypedValue() throws XPathException {

int annotation = getTypeAnnotation();
if ((annotation & NodeInfo.IS_DTD_TYPE) != 0) {
    annotation = StandardNames.XS_UNTYPED_ATOMIC;
}
annotation &= NamePool.FP_MASK;
if (annotation == -1 || annotation == StandardNames.XS_UNTYPED_ATOMIC || annotation == StandardNames.XS_UNTYPED) {
    return SingletonIterator.makeIterator(new UntypedAtomicValue(getStringValueCS()));
} else {
    SchemaType stype = getConfiguration().getSchemaType(annotation);
    if (stype == null) {
        String typeName;
        try {
            typeName = getNamePool().getDisplayName(annotation);
        } catch (Exception err) {
            typeName = annotation + "";
        }
        throw new XPathException("Unknown type annotation " +
            Err.wrap(typeName) + " in document instance");
    } else {
        return stype.getTypedValue(this);
    }
}

/**
 * Get the typed value. The result of this method will always be consistent with the method
 * {@link net.sf.saxon.om.Item#getTypedValue()}. However, this method is often more convenient and may be
 * more efficient, especially in the common case where the value is expected to be a singleton.
 * *
 * @return the typed value. If requireSingleton is set to true, the result will always be an
 * AtomicValue. In other cases it may be a Value representing a sequence whose items are atomic
 * values.
 * @since 8.5
 */

public Value atomize() throws XPathException {
    int annotation = getTypeAnnotation();
    if ((annotation & NodeInfo.IS_DTD_TYPE) != 0) {
        annotation = StandardNames.XS_UNTYPED_ATOMIC;
    }
    if (annotation == -1 || annotation == StandardNames.XS_UNTYPED_ATOMIC || annotation == StandardNames.XS_UNTYPED) {
        return new UntypedAtomicValue(getStringValueCS());
    } else {
        SchemaType stype = getConfiguration().getSchemaType(annotation);
        if (stype == null) {
            String typeName = getNamePool().getDisplayName(annotation);
            throw new XPathException("Unknown type annotation " +
                Err.wrap(typeName) + " in document instance");
        } else {
            return stype.getTypedValue(this);
        }
    }
}
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().

@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.

/**
 * 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;
        } else 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().getDisplayName(code);
}

/**
 * Get the local part of the name of this node.
 * @return The local name of this node.
 * For a node with no name, return "".
 */
public String getLocalPart() {
    int code = tree.nameCode[nodeNr];
    if (code < 0) {
        return "";
    }
    return tree.getNamePool().getLocalName(code);
}

/**
 * Return an iterator over all the nodes reached by the given axis from this node
 * @param axisNumber Identifies the required axis, eg. Axis.CHILD or Axis.PARENT
 * @return a AxisIteratorImpl that scans the nodes reached by the axis in turn.
 */
public AxisIterator iterateAxis(byte axisNumber) {
    // fast path for child axis
    if (axisNumber == Axis.CHILD) {
        if (hasChildNodes()) {
            return new SiblingEnumeration(tree, this, null, true);
        } else {

    }

    return new SiblingEnumeration(tree, this, null, true);
}
return EmptyIterator.getInstance();
}
} else {
    return iterateAxis(axisNumber, AnyNodeTest.getInstance());
}
}

/**
* Return an iterator over the nodes reached by the given axis from this node
*
* @param axisNumber Identifies the required axis, eg. Axis.CHILD or Axis.PARENT
* @param nodeTest A pattern to be matched by the returned nodes.
* @return a AxisIteratorImpl that scans the nodes reached by the axis in turn.
*/

public AxisIterator iterateAxis(byte axisNumber, NodeTest nodeTest) {

    int type = getNodeKind();
    switch (axisNumber) {
    case Axis.ANCESTOR:
        return new AncestorEnumeration(this, nodeTest, false);

    case Axis.ANCESTOR_OR_SELF:
        return new AncestorEnumeration(this, nodeTest, true);

    case Axis.ATTRIBUTE:
        if (type != Type.ELEMENT) {
            return EmptyIterator.getInstance();
        }
        if (tree.alpha[nodeNr] < 0) {
            return EmptyIterator.getInstance();
        }
        return new AttributeEnumeration(tree, nodeNr, nodeTest);

    case Axis.CHILD:
        if (hasChildNodes()) {
            return new SiblingEnumeration(tree, this, nodeTest, true);
        } else {
            return EmptyIterator.getInstance();
        }

    case Axis.DESCENDANT:
        if (type == Type.DOCUMENT &&
            nodeTest instanceof NameTest &&
            nodeTest.getPrimitiveType() == Type.ELEMENT) {
            return ((TinyDocumentImpl)this).getAllElements(nodeTest.getFingerprint());
        } else if (hasChildNodes()) {
            return new DescendantEnumeration(tree, this, nodeTest, false);
case Axis.DESCENDANT_OR_SELF:
    if (hasChildNodes()) {
        return new DescendantEnumeration(tree, this, nodeTest, true);
    } else {
        return Navigator.filteredSingleton(this, nodeTest);
    }

case Axis.FOLLOWING:
    if (type == Type.ATTRIBUTE || type == Type.NAMESPACE) {
        return new FollowingEnumeration(tree, (TinyNodeImpl)getParent(), nodeTest, true);
    } else if (tree.depth[nodeNr] == 0) {
        return EmptyIterator.getInstance();
    } else {
        return new FollowingEnumeration(tree, this, nodeTest, false);
    }

case Axis.FOLLOWING_SIBLING:
    if (type == Type.ATTRIBUTE || type == Type.NAMESPACE || tree.depth[nodeNr] == 0) {
        return EmptyIterator.getInstance();
    } else {
        return new SiblingEnumeration(tree, this, nodeTest, false);
    }

case Axis.NAMESPACE:
    if (type != Type.ELEMENT) {
        return EmptyIterator.getInstance();
    }
    return NamespaceIterator.makeIterator(this, nodeTest);

case Axis.PARENT:
    NodeInfo parent = getParent();
    return Navigator.filteredSingleton(parent, nodeTest);

case Axis.PRECEDING:
    if (type == Type.ATTRIBUTE || type == Type.NAMESPACE) {
        return new PrecedingEnumeration(tree, (TinyNodeImpl)getParent(), nodeTest, false);
    } else if (tree.depth[nodeNr] == 0) {
        return EmptyIterator.getInstance();
    } else {
        return new PrecedingEnumeration(tree, this, nodeTest, false);
    }

case Axis.PRECEDING_SIBLING:
    if (type == Type.ATTRIBUTE || type == Type.NAMESPACE || tree.depth[nodeNr] == 0) {

return EmptyIterator.getInstance();
} else {
    return new PrecedingSiblingEnumeration(tree, this, nodeTest);
}

case Axis.SELF:
    return Navigator.filteredSingleton(this, nodeTest);

case Axis.PRECEDING_OR_ANCESTOR:
    if (type == Type.DOCUMENT) {
        return EmptyIterator.getInstance();
    } else if (type == Type.ATTRIBUTE || type == Type.NAMESPACE) {
        // See test numb32.
        TinyNodeImpl el = (TinyNodeImpl)getParent();
        return new PrependIterator(el, new PrecedingEnumeration(tree, el, nodeTest, true));
    } else {
        return new PrecedingEnumeration(tree, this, nodeTest, true);
    }

default:
    throw new IllegalArgumentException("Unknown axis number "+ axisNumber);
}

/**
 * Find the parent node of this node.
 *
 * @return The Node object describing the containing element or root node.
 */

public NodeInfo getParent() {
    if (parent != null) {
        return parent;
    }
    int p = getParentNodeNr(tree, nodeNr);
    if (p == -1) {
        parent = null;
    } else {
        parent = tree.getNode(p);
    }
    return parent;
}

/**
 * Static method to get the parent of a given node, without instantiating the node as an object.
 * The starting node is any node other than an attribute or namespace node.
 *
 * @param tree the tree containing the starting node
 */
static int getParentNodeNr(TinyTree tree, int nodeNr) {
    if (tree.depth[nodeNr] == 0) {
        return -1;
    }

    // follow the next-sibling pointers until we reach either a next sibling pointer that
    // points backwards, or a parent-pointer pseudo-node
    int p = tree.next[nodeNr];
    while (p > nodeNr) {
        if (tree.nodeKind[p] == Type.PARENT_POINTER) {
            return tree.alpha[p];
        }
        p = tree.next[p];
    }
    return p;
}

/**
 * Determine whether the node has any children.
 *
 * @return <code>true</code> if this node has any attributes,
 *         <code>false</code> otherwise.
 */
public boolean hasChildNodes() {
    // overridden in TinyParentNodeImpl
    return false;
}

/**
 * Get the value of a given attribute of this node
 *
 * @param fingerprint The fingerprint of the attribute name
 * @return the attribute value if it exists or null if not
 */
public String getAttributeValue(int fingerprint) {
    // overridden in TinyElementImpl
    return null;
}

/**
 * Get the root node of the tree (not necessarily a document node)
public NodeInfo getRoot() {
    if (tree.depth[nodeNr] == 0) {
        return this;
    }
    if (parent != null) {
        return parent.getRoot();
    }
    return tree.getNode(tree.getRootNode(nodeNr));
}

/**
 * Get the root (document) node
 *
 * @return the DocumentInfo representing the containing document
 */

public DocumentInfo getDocumentRoot() {
    NodeInfo root = getRoot();
    if (root.getNodeKind() == Type.DOCUMENT) {
        return (DocumentInfo)root;
    } else {
        return null;
    }
}

/**
 * Get the configuration
 */

public Configuration getConfiguration() {
    return tree.getConfiguration();
}

/**
 * Get the NamePool for the tree containing this node
 *
 * @return the NamePool
 */

public NamePool getNamePool() {
    return tree.getNamePool();
}
* Get all namespace undeclarations and undeclarations defined on this element.
* @param buffer If this is non-null, and the result array fits in this buffer, then the result
* may overwrite the contents of this array, to avoid the cost of allocating a new array on the heap.
* @return An array of integers representing the namespace declarations and undeclarations present on
* this element. For a node other than an element, return null. Otherwise, the returned array is a
* sequence of namespace codes, whose meaning may be interpreted by reference to the name pool. The
* top half word of each namespace code represents the prefix, the bottom half represents the URI.
* If the bottom half is zero, then this is a namespace undeclaration rather than a declaration.
* The XML namespace is never included in the list. If the supplied array is larger than required,
* then the first unused entry will be set to -1.
* <p/>
* <p>For a node other than an element, the method returns null.</p>
*/

public int[] getDeclaredNamespaces(int[] buffer) {
    return null;
}

/**
 * Get a character string that uniquely identifies this node
 * @param buffer buffer, which on return will contain
 *  a character string that uniquely identifies this node.
 * */

public void generateId(FastStringBuffer buffer) {
    buffer.append("d");
    buffer.append(Integer.toString(tree.getDocumentNumber()));
    buffer.append(NODE_LETTER[getNodeKind()]);
    buffer.append(Integer.toString(nodeNr));
}

/**
 * Get the document number of the document containing this node
 * (Needed when the document isn't a real node, for sorting free-standing elements)
 */

public final int getDocumentNumber() {
    return tree.getDocumentNumber();
}

/**
 * Test if this node is an ancestor-or-self of another
 * @param d the putative descendant-or-self node
 * @return true if this node is an ancestor-or-self of d

public boolean isAncestorOrSelf(TinyNodeImpl d) {
    // If it's a different tree, return false
    if (tree != d.tree) return false;
    int dn = d.nodeNr;
    // If d is an attribute, then either "this" must be the same attribute, or "this" must
    // be an ancestor-or-self of the parent of d.
    if (d instanceof TinyAttributeImpl) {
        if (this instanceof TinyAttributeImpl) {
            return nodeNr == dn;
        } else {
            dn = tree.attParent[dn];
        }
    }
    // If this is a attribute, return false (we've already handled the case where it's the same attribute)
    if (this instanceof TinyAttributeImpl) return false;
    // From now on, we know that both "this" and "dn" are nodes in the primary array
    // If d is later in document order, return false
    if (nodeNr > dn) return false;
    // If it's the same node, return true
    if (nodeNr == dn) return true;
    // We've dealt with the "self" case: to be an ancestor, it must be an element or document node
    if (!(this instanceof TinyParentNodeImpl)) return false;
    // If this node is deeper than the target node then it can't be an ancestor
    if (tree.depth[nodeNr] >= tree.depth[dn]) return false;
    // The following code will exit as soon as we find an ancestor that has a following-sibling:
    // when that happens, we know it's an ancestor iff its following-sibling is beyond the node we're
    // looking for. If the ancestor has no following sibling, we go up a level.
    // The algorithm depends on the following assertion: if A is before D in document order, then
    // either A is an ancestor of D, or some ancestor-or-self of A has a following-sibling that
    // is before-or-equal to D in document order.
    int n = nodeNr;
    while (true) {
        int nextSib = tree.next[n];
        if (nextSib > dn) {
            return true;
        } else if (nextSib < 0 || tree.depth[nextSib] == 0) {
            return true;
        } else if (nextSib < n) {
            n = nextSib;
        } else if (nextSib > dn) { /*...*/
    }
    /*...*/
}
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;
}

}
package net.sf.saxon.tinytree;
import net.sf.saxon.type.Type;
import net.sf.saxon.om.FastStringBuffer;

abstract class TinyParentNodeImpl extends TinyNodeImpl {

    /**
     * TinyParentNodeImpl is an implementation of a non-leaf node (specifically, an Element node or a Document node)
     * @return the accumulated character content of the element, including descendant elements.
     */

    public final boolean hasChildNodes() {
        return (nodeNr+1 < tree.numberOfNodes &&
                tree.depth[nodeNr+1] > tree.depth[nodeNr]);
    }

    /**
     * Determine if the node has children.
     */

    public final String getStringValue() {
        return getStringValue(tree, nodeNr).toString();
    }
}
/**
 * Get the value of the item as a CharSequence. This is in some cases more efficient than
 * the version of the method that returns a String.
 */

public CharSequence getStringValueCS() {
    return getStringValue(tree, nodeNr);
}

/**
 * Get the string value of a node. This static method allows the string value of a node
 * to be obtained without instantiating the node as a Java object. The method also returns
 * a CharSequence rather than a string, which means it can sometimes avoid copying the
 * data.
 * @param tree The containing document
 * @param nodeNr identifies the node whose string value is required. This must be a
 * document or element node. The caller is trusted to ensure this.
 * @return the string value of the node, as a CharSequence
 */

public static CharSequence getStringValue(TinyTree tree, int nodeNr) {
    int level = tree.depth[nodeNr];

    // note, we can't rely on the value being contiguously stored because of whitespace
    // nodes: the data for these may still be present.

    int next = nodeNr + 1;

    // we optimize two special cases: firstly, where the node has no children, and secondly,
    // where it has a single text node as a child.

    if (tree.depth[next] <= level) {
        return "";
    } else if (tree.nodeKind[next] == Type.TEXT && (next + 1 >= tree.numberOfNodes ||
        tree.depth[next + 1] <=
        level)) {
        //int length = tree.beta[next];
        //int start = tree.alpha[next];
        //return new CharSlice(tree.charBuffer, start, length);
        //return tree.charBuffer.subSequence(start, start + length);
        return TinyTextImpl.getStringValue(tree, next);
    }

    // now handle the general case

    FastStringBuffer sb = null;
    while (next < tree.numberOfNodes &&
        tree.depth[next] > level) {
        final byte kind = tree.nodeKind[next];
        if (kind == Type.TEXT) {
int length = tree.beta[next];
int start = tree.alpha[next];
if (sb==null) {
    sb = new FastStringBuffer(1024);
}
//sb.append(tree.charBuffer, start, length);
//sb.append(tree.charBuffer.subSequence(start, start+length));
sb.append(TinyTextImpl.getStringValue(tree, next));
} else if (kind==Type.WHITESPACE_TEXT) {
    if (sb==null) {
        sb = new FastStringBuffer(1024);
    }
    WhitespaceTextImpl.appendStringValue(tree, next, sb);

    next++;
}
if (sb==null) return "";
return sb.condense();

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//
package net.sf.saxon.tinytree;
import net.sf.saxon.event.Receiver;
import net.sf.saxon.om.Navigator;
import net.sf.saxon.om.SequenceIterator;
import net.sf.saxon.trans.XPathException;
import net.sf.saxon.type.Type;
import net.sf.saxon.value.StringValue;
import net.sf.saxon.value.Value;

/**
 * TProcInstImpl is an implementation of ProcInstInfo
 * @author Michael H. Kay
 * @version 16 July 1999
 */

final class TinyProcInstImpl extends TinyNodeImpl {

    public TinyProcInstImpl(TinyTree tree, int nodeNr) {
        this.tree = tree;
        this.nodeNr = nodeNr;
    }

    public String getStringValue() {
        int start = tree.alpha[nodeNr];
        int len = tree.beta[nodeNr];
        if (len==0) {
            return ""; // need to special-case this for the Microsoft JVM
        }
        char[] dest = new char[len];
        tree.commentBuffer.getChars(start, start+len, dest, 0);
        return new String(dest, 0, len);
    }

    /**
     * Get the typed value of this node.
     * Returns the string value, as an instance of xs:string
     */
    public SequenceIterator getTypedValue() {
        return SingletonIterator.makeIterator(new StringValue(getStringValue()));
    }

    /**
     * Get the typed value of this node.
     * Returns the string value, as an instance of xs:string
     */
    public Value atomize() {
        return new StringValue(getStringValue());
    }

    public final int getNodeKind() {
        return Type.PROCESSING_INSTRUCTION;
    }
}
/**
 * Get the base URI of this processing instruction node.
 */

public String getBaseURI() {
    return Navigator.getBaseURI(this);
}

/**
 * Copy this node to a given outputter
 */

public void copy(Receiver out, int whichNamespaces, boolean copyAnnotations, int locationId) throws XPathException {
    out.processingInstruction(getDisplayName(), getStringValue(), 0, 0);
}

// DOM methods

/**
 * The target of this processing instruction. XML defines this as being
 * the first token following the markup that begins the processing
 * instruction.
 * @return the "target", or in XDM terms, the name of the processing instruction
 */

public String getTarget() {
    return getDisplayName();
}

/**
 * The content of this processing instruction. This is from the first non
 * white space character after the target to the character immediately
 * preceding the &lt;code&gt;?&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();
}

//
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package net.sf.saxon.tinytree;
import net.sf.saxon.event.Receiver;
import net.sf.saxon.om.FastStringBuffer;
import net.sf.saxon.om.NamePool;
import net.sf.saxon.om.NodeInfo;
import net.sf.saxon.trans.XPathException;
import net.sf.saxon.type.Type;

/**
 * A node in the XML parse tree representing an attribute. Note that this is
 * generated only "on demand", when the attribute is selected by a select pattern.<P>
 * @author Michael H. Kay
 */
final class TinyAttributeImpl extends TinyNodeImpl {

    public TinyAttributeImpl(TinyTree tree, int nodeNr) {
        this.tree = tree;
        this.nodeNr = nodeNr;
    }

    public void setSystemId(String uri) {
        // no action: an attribute has the same base URI as its parent
    }

    /**
     * Get the parent node
     */

    public NodeInfo getParent() {
        return tree.getNode(tree.attParent[nodeNr]);
    }
}
*/

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 root node of the tree (not necessarily a document node)
 *
 * @return the NodeInfo representing the root of this tree
 */

protected long getSequenceNumber() {
    return ((TinyNodeImpl)getParent()).getSequenceNumber()
         + 0x8000 +
         (nodeNr - tree.alpha[tree.attParent[nodeNr]]);
    // note the 0x8000 is to leave room for namespace nodes
}

/**
 * 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.
 */

public final int getNodeKind() {
    return Type.ATTRIBUTE;
}

/**
 * Return the type of node.
 * @return Node.ATTRIBUTE
 */

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] & 0xffffff;
}

/**
* 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.
 * @return 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);
}

package net.sf.saxon.tinytree;

import java.io.Writer;
import java.io.Serializable;

/**
 * This is an implementation of the JDK 1.4 CharSequence interface: it implements
 * a CharSequence as a view of an array. The implementation relies on the array
 * being immutable: as a minimum, the caller is required to ensure that the array
 * contents will not change so long as the CharSlice remains in existence.
 *
 * This class should be more efficient than String because it avoids copying the
 * characters unnecessarily.
 *
 * The methods in the class don't check their arguments. Incorrect arguments will
 * generally result in exceptions from lower-level classes.
 *
 */

public final class CharSlice implements CharSequence, Serializable {
private char[] array;
private int offset;
private int count;

/**
 * Create a CharSlice that maps to the whole of a char[] array
 * @param array the char[] array
 */

public CharSlice(char[] array) {
    this.array = array;
    offset = 0;
    count = array.length;
}

/**
 * Create a CharSlice that maps to a section of a char[] array
 * @param array the char[] array
 * @param start position of the first character to be included
 * @param length number of characters to be included
 */

public CharSlice(char[] array, int start, int length) {
    this.array = array;
    offset = start;
    count = length;
    if (start + length > array.length) {
        throw new IndexOutOfBoundsException("start(" + start + "+ length(" + length + ")) > size(" + array.length + ");
    }
}

/**
 * Returns the length of this character sequence. The length is the number
 * of 16-bit Unicode characters in the sequence. </p>
 * @return the number of characters in this sequence
 */

public int length() {
    return count;
}

/**
 * Set the length of this character sequence, without changing the array and start offset
 * to which it is bound
 * @param length the new length of the CharSlice (which must be less than the existing length,
 * though this is not enforced)
 */
public void setLength(int length) {
    count = length;
}

/**
 * Returns the character at the specified index. An index ranges from zero
 * to <tt>length() - 1</tt>. The first character of the sequence is at
 * index zero, the next at index one, and so on, as for array
 * indexing. </p>
 *
 * @param index the index of the character to be returned
 * @return the specified character
 * @throws java.lang.IndexOutOfBoundsException
 *          if the <tt>index</tt> argument is negative or not less than
 *          <tt>length()</tt>
 */
public char charAt(int index) {
    return array[offset+index];
}

/**
 * Returns a new character sequence that is a subsequence of this sequence.
 * The subsequence starts with the character at the specified index and
 * ends with the character at index <tt>end - 1</tt>. The length of the
 * returned sequence is <tt>end - start</tt>, so if <tt>start == end</tt>
 * then an empty sequence is returned. </p>
 *
 * @param start the start index, inclusive
 * @param end the end index, exclusive
 *
 * @return the specified subsequence
 *
 * @throws java.lang.IndexOutOfBoundsException
 *          if <tt>start</tt> or <tt>end</tt> are negative,
 *          if <tt>end</tt> is greater than <tt>length()</tt>,
 *          or if <tt>start</tt> is greater than <tt>end</tt>
 */
public CharSequence subSequence(int start, int end) {
    return new CharSlice(array, offset+start, end-start);
}

/**
 * Convert to a string
 */
public String toString() {
    return new String(array, offset, count);
}
/**
 * Compare equality
 */

public boolean equals(Object other) {
    return toString().equals(other);
}

/**
 * Generate a hash code
 */

public int hashCode() {
    // Same algorithm as String#hashCode(), but not cached
    int end = offset+count;
    int h = 0;
    for (int i = offset; i < end; i++) {
        h = 31 * h + array[i];
    }
    return h;
}

/**
 * Get the index of a specific character in the sequence. Returns -1 if not found.
 * This method mimics @link String#indexOf
 * @param c the character to be found
 * @return the position of the first occurrence of that character, or -1 if not found.
 */

public int indexOf(char c) {
    int end = offset+count;
    for (int i = offset; i < end; i++) {
        if (array[i] == c) {
            return i-offset;
        }
    }
    return -1;
}

/**
 * Returns a new character sequence that is a subsequence of this sequence.
 * Unlike subSequence, this is guaranteed to return a String.
 * @param start position of the first character to be included (relative to the
 * start of the CharSlice, not the underlying array)
 * @param end position of the first character <b>not</b> to be included (relative
 * to the start of the CharSlice)
 * @return the substring, as a String object
 */
public String substring(int start, int end) {
    return new String(array, offset+start, end-start);
}

/**
 * Append the contents to another array at a given offset. The caller is responsible
 * for ensuring that sufficient space is available.
 * @param destination the array to which the characters will be copied
 * @param destOffset the offset in the target array where the copy will start
 */

public void copyTo(char[] destination, int destOffset) {
    System.arraycopy(array, offset, destination, destOffset, count);
}

/**
 * Write the value to a writer
 * @param writer the writer to be written to
 */

public void write(Writer writer) throws java.io.IOException {
    writer.write(array, offset, count);
}

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//
// Contributor(s): none
//
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 {

package net.sf.saxon.tinytree;
import net.sf.saxon.Configuration;
import net.sf.saxon.sort.IntHashMap;
import net.sf.saxon.event.Receiver;
import net.sf.saxon.om.*;
import net.sf.saxon.trans.XPathException;
import net.sf.saxon.type.Type;

import java.util.*;

/**
 * A node in the XML parse tree representing the Document itself (or equivalently, the root
 * node of the Document).<P>
 */

public final class TinyDocumentImpl extends TinyParentNodeImpl
    implements DocumentInfo {

    private HashMap idTable = null;
    private IntHashMap elementList = null;
    private HashMap entityTable = null;
    private String baseURI = null;

    ...
public TinyDocumentImpl(TinyTree tree) {
    this.tree = tree;
    nodeNr = tree.numberOfNodes;
}

/**
 * Get the tree containing this node
 */

public TinyTree getTree() {
    return tree;
}

/**
 * Set the Configuration that contains this document
 */

public void setConfiguration(Configuration config) {
    if (config != tree.getConfiguration()) {
        throw new IllegalArgumentException(
                    "Configuration of document differs from that of the supporting TinyTree");
    }
}

/**
 * Get the configuration previously set using setConfiguration
 */

public Configuration getConfiguration() {
    return tree.getConfiguration();
}

/**
 * Set the system id of this node
 */

public void setSystemId(String uri) {
    tree.setSystemId(nodeNr, uri);
}

/**
 * Get the system id of this root node
 */

public String getSystemId() {
    return tree.getSystemId(nodeNr);
}
/**
 * Set the base URI of this document node
 */

public void setBaseURI(String uri) {
    baseURI = uri;
}

/**
 * Get the base URI of this root node.
 */

public String getBaseURI() {
    if (baseURI != null) {
        return baseURI;
    }
    return getSystemId();
}

/**
 * Get the line number of this root node.
 * @return 0 always
 */

public int getLineNumber() {
    return 0;
}

/**
 * Return the type of node.
 * @return Type.DOCUMENT (always)
 */

public final int getNodeKind() {
    return Type.DOCUMENT;
}

/**
 * Find the parent node of this node.
 * @return The Node object describing the containing element or root node.
 */

public NodeInfo getParent() {
    return null;
}

/**
* Get the root node
* @return the NodeInfo that is the root of the tree - not necessarily a document node
*/

```java
public NodeInfo getRoot() {
    return this;
}
```

```java
/**
* 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;
}
```

```java
/**
* 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()));
}
```

```java
/**
* Get a list of all elements with a given name. This is implemented
* as a memo function: the first time it is called for a particular
* element type, it remembers the result for next time.
*/

AxisIterator getAllElements(int fingerprint) {
    if (elementList==null) {
        elementList = new IntHashMap(20);
    }
    List list = (List)elementList.get(fingerprint);
    if (list==null) {
        list = getElementList(fingerprint);
        elementList.put(fingerprint, list);
    }
    return new NodeListIterator(list);
}
```

```java
/**
* 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] & 0xfffff) == 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);
    }
    NodeInfo old = (NodeInfo)idTable.get(id);
    if (old==null) {
        idTable.put(id, e);
    }
    // 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();
}

}
package net.sf.saxon.tinytree;
import net.sf.saxon.event.Receiver;
import net.sf.saxon.trans.XPathException;
import net.sf.saxon.type.Type;

/**
 * A node in the XML parse tree representing character content
 * @author Michael H. Kay
 */

public final class TinyTextImpl extends TinyNodeImpl {

    /**
     * Create a text node
     * @param tree the tree to contain the node
     * @param nodeNr the internal node number
     */

    public TinyTextImpl(TinyTree tree, int nodeNr) {
        this.tree = tree;
        this.nodeNr = nodeNr;
    }

    /**
     * Return the character value of the node.
     * @return the string value of the node
     */

    public String getStringValue() {
        int start = tree.alpha[nodeNr];
        int len = tree.beta[nodeNr];
        //return new String(tree.charBuffer, start, len);
        return tree.charBuffer.substring(start, start+len);
    }

    /**
     * Get the value of the item as a CharSequence. This is in some cases more efficient than
     * the version of the method that returns a String.
     */

public CharSequence getStringValueCS() {
    int start = tree.alpha[nodeNr];
    int len = tree.beta[nodeNr];
    return tree.charBuffer.subSequence(start, start+len);
}

/**
 * Static method to get the string value of a text node without first constructing the node object
 * @param tree the tree
 * @param nodeNr the node number of the text node
 * @return the string value of the text node
 */

public static CharSequence getStringValue(TinyTree tree, int nodeNr) {
    int start = tree.alpha[nodeNr];
    int len = tree.beta[nodeNr];
    //return new CharSlice(tree.charBuffer, start, len);
    return tree.charBuffer.subSequence(start, start+len);
}

/**
 * Return the type of node.
 * @return Type.TEXT
 */

public final int getNodeKind() {
    return Type.TEXT;
}

/**
 * Copy this node to a given outputter
 */

public void copy(Receiver out, int whichNamespaces, boolean copyAnnotations, int locationId) throws XPathException {
    out.characters(getStringValueCS(), 0, 0);
}

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package net.sf.saxon.tinytree;
import net.sf.saxon.Configuration;
import net.sf.saxon.event.*;
import net.sf.saxon.om.*;
import net.sf.saxon.trans.XPathException;
import net.sf.saxon.type.SchemaType;
import net.sf.saxon.type.SimpleType;
import net.sf.saxon.type.Type;

/**
 * A node in the XML parse tree representing an XML element.<P>
 * This class is an implementation of NodeInfo. The object is a wrapper around
 * one entry in the arrays maintained by the TinyTree. Note that the same node
 * might be represented by different TinyElementImpl objects at different times.
 * @author Michael H. Kay
 */

final class TinyElementImpl extends TinyParentNodeImpl {

/**
 * Constructor - create a tiny element node
 * @param tree the Tinytree containing the node
 * @param nodeNr the node number
 */

public TinyElementImpl(TinyTree tree, int nodeNr) {
    this.tree = tree;
    this.nodeNr = nodeNr;
}

/**
 * Return the type of node.
 * @return Type.ELEMENT
 */

public final int getNodeKind() {
return Type.ELEMENT;
}

/**
 * Get the base URI of this element node. This will be the same as the System ID unless
 * xml:base has been used.
 */
public String getBaseURI() {
    return Navigator.getBaseURI(this);
}

/**
 * Get the type annotation of this node, if any
 * Returns Type.UNTYPED_ANY if there is no type annotation
 */
public int getTypeAnnotation() {
    return tree.getTypeAnnotation(nodeNr) & NamePool.FP_MASK;
}

/**
 * Get all namespace undeclarations and undeclarations defined on this element.
 *
 * @param buffer If this is non-null, and the result array fits in this buffer, then the result
 * may overwrite the contents of this array, to avoid the cost of allocating a new array on the heap.
 * @return An array of integers representing the namespace declarations and undeclarations present on
 * this element. For a node other than an element, return null. Otherwise, the returned array is a
 * sequence of namespace codes, whose meaning may be interpreted by reference to the name pool. The
 * top half word of each namespace code represents the prefix, the bottom half represents the URI.
 * If the bottom half is zero, then this is a namespace undeclaration rather than a declaration.
 * The XML namespace is never included in the list. If the supplied array is larger than required,
 * then the first unused entry will be set to -1.
 * <p/>
 * <p>For a node other than an element, the method returns null.</p>
 */
public int[] getDeclaredNamespaces(int[] buffer) {
    return getDeclaredNamespaces(tree, nodeNr, buffer);
}

/**
 * Static method to get all namespace undeclarations and undeclarations defined on a given element,
 * without instantiating the node object.
 * @param tree The tree containing the given element node
 * @param nodeNr The node number of the given element node within the tinyTree
 * @param buffer If this is non-null, and the result array fits in this buffer, then the result
 * may overwrite the contents of this array, to avoid the cost of allocating a new array on the heap.
 */
* @return An array of integers representing the namespace declarations and undeclarations present on this element. For a node other than an element, return null. Otherwise, the returned array is a sequence of namespace codes, whose meaning may be interpreted by reference to the name pool. The top half word of each namespace code represents the prefix, the bottom half represents the URI.
* If the bottom half is zero, then this is a namespace undeclaration rather than a declaration.
* The XML namespace is never included in the list. If the supplied array is larger than required, then the first unused entry will be set to -1.
* 
* 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
*/
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);

// document.diagnosticDump();

    do {

        // determine node depth
        short nodeLevel = tree.depth[next];

        // extra close required?
        if (closePending) {
            level++;
        }

        // close former elements
        for (; level > nodeLevel; level--) {
            receiver.endElement();
        }

        // new node level
        level = nodeLevel;

        // output depends on node kind
        switch (tree.nodeKind[next]) {
            case Type.ELEMENT : {

                // start element
                final int typeCode = (copyAnnotations ? tree.getTypeAnnotation(next):
                    StandardNames.XS_UNTYPED);
                if (disallowNamespaceSensitiveContent) {
                    if (config == null) {
                        config = getConfiguration();
                    }
                    checkNotNamespaceSensitive(config, typeCode);
                }


        }
if (setLocation) {
    ((CopyInformee)receiver).notifyElementNode(tree.getNode(next));
}
receiver.startElement(tree.nameCode[next],
    typeCode,
    locationId, 0);

// there is an element to close
closePending = true;

// output namespaces
if (whichNamespaces != NodeInfo.NO_NAMESPACES && tree.usesNamespaces) {
    if (first) {
        switch (whichNamespaces) {
        case NodeInfo.NO_NAMESPACES:
            break;
        case NodeInfo.LOCAL_NAMESPACES:
            int[] localNamespaces = getDeclaredNamespaces(null);
            for (int i=0; i<localNamespaces.length; i++) {
                int ns = localNamespaces[i];
                if (ns == -1) {
                    break;
                }
                receiver.namespace(ns, 0);
            }
            break;
        case NodeInfo.ALL_NAMESPACES:
            NamespaceCodeIterator.sendNamespaces(this, receiver);
            break;
        }
    } else {
        int ns = tree.beta[next]; // by convention
        if (ns>0 ) {
            while (ns < tree.numberOfNamespaces &&
                tree.namespaceParent[ns] == next ) {
                int nscode = tree.namespaceCode[ns];
                receiver.namespace(nscode, 0);
                ns++;
            }
        }
    }
    first = false;
}

// output attributes
int att = tree.alpha[next];
if (att >= 0) {
    while (att < tree.numberOfAttributes && tree.attParent[att] == next) {
        int attCode = tree.attCode[att];
        int attType = (copyAnnotations ?
                        tree.getAttributeAnnotation(att) :
                        StandardNames.XS_UNTYPED_ATOMIC);
        if (disallowNamespaceSensitiveContent) {
            if (config == null) {
                config = getConfiguration();
            }
            checkNotNamespaceSensitive(config, attType);
        }
        receiver.attribute(attCode, attType, tree.attValue[att], locationId, 0);
        att++;
    }
}

// start content
receiver.startContent();
break;
}
}
case Type.TEXT: {

    // don't close text nodes
    closePending = false;

    // output characters
    final CharSequence value = TinyTextImpl.getStringValue(tree, next);
    receiver.characters(value, locationId, ReceiverOptions.WHOLE_TEXT_NODE);
    break;
}

case Type.WHITESPACE_TEXT: {

    // don't close text nodes
    closePending = false;

    // output characters
    final CharSequence value = WhitespaceTextImpl.getStringValue(tree, next);
    receiver.characters(value, locationId, ReceiverOptions.WHOLE_TEXT_NODE);
    break;
}

case Type.COMMENT: {

    // don't close text nodes
    closePending = false;

// output copy of comment
    int start = tree.alpha[next];
    int len = tree.beta[next];
    if (len > 0) {
        receiver.comment(tree.commentBuffer.subSequence(start, start+len), locationId, 0);
    } else {
        receiver.comment("", 0, 0);
    }
    break;
}

// don't close text nodes
closePending = false;

// output copy of PI
NodeInfo pi = tree.getNode(next);
receiver.processingInstruction(pi.getLocalPart(), pi.getStringValue(), locationId, 0);
break;
}

    case Type.PARENT_POINTER : {
        closePending = false;
    }
}

next++;

} while (next < tree.numberofNodes && tree.depth[next] > startLevel);

// close all remaining elements
if (closePending) {
    level++;
}
for (; level > startLevel; level--) {
    receiver.endElement();
}
}

private void checkNotNamespaceSensitive(Configuration config, final int typeCode) throws XPathException {
    SchemaType type = config.getSchemaType(typeCode & NamePool.FP_MASK);
    if (type instanceof SimpleType && ((SimpleType)type).isNamespaceSensitive()) {
        throw new CopyNamespaceSensitiveException("Cannot copy QName or NOTATION values without copying namespaces");
    }
    err.setErrorCode((language == Configuration.XSLT ? "XTTE0950" : "XQTY0086"));
    throw err;
}
/**
 * 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
public String getURIForPrefix(String prefix, boolean useDefault) {
    if (!useDefault && (prefix==null || prefix.length()==0)) {
        return ""
    }
    int prefixCode = getNamePool().getCodeForPrefix(prefix);
    if (prefixCode == -1) {
        return null;
    }
    int ns = tree.beta[nodeNr]; // by convention
    if (ns>0 ) {
        while (ns < tree.numberOfNamespaces &&
            tree.namespaceParent[ns] == nodeNr ) {
            int nscode = tree.namespaceCode[ns];
            if ((nscode >> 16) == prefixCode) {
                int uriCode = nscode & 0xffff;
                if (uriCode == 0) {
                    // this is a namespace undeclaration, so the prefix is not in scope
                    if (prefixCode == 0) {
                        // the namespace xmlns="" is always in scope
                        return ""
                    } else {
                        return null;
                    }
                } else {
                    return getNamePool().getURIFromURICode((short)uriCode);
                }
            } else {
                return null;
            }
        }
    } // now search the namespaces defined on the ancestor nodes.

    NodeInfo parent = getParent();
    if (parent instanceof NamespaceResolver) {
        return ((NamespaceResolver)parent).getURIForPrefix(prefix, useDefault);
    }
    return null;
}

/**
 * Determine whether this node has the is-id property
 * @return
 */
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);
}
/*
 * 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 typed value of this node.
     * Returns the string value, as an instance of xs:string
     */
    public Value atomize() {
        return new StringValue(getStringValue());
    }
}
public final int getNodeKind() {
    return Type.COMMENT;
}

/**
 * Copy this node to a given outputter
 */

public void copy(Receiver out, int whichNamespaces, boolean copyAnnotations, int locationId) throws XPathException {
    out.comment(getStringValue(), 0, 0);
}

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//
package net.sf.saxon.dom;

import net.sf.saxon.Configuration;
import net.sf.saxon.FeatureKeys;
import net.sf.saxon.value.Whitespace;

import javax.xml.parsers.DocumentBuilder;
import javax.xml.parsers.DocumentBuilderFactory;
import javax.xml.parsers.ParserConfigurationException;
* Implementation of JAXP 1.1 DocumentBuilderFactory. To build a Document using
* Saxon, set the system property javax.xml.parsers.DocumentBuilderFactory to
* "net.sf.saxon.om.DocumentBuilderFactoryImpl" and then call
* DocumentBuilderFactory.newInstance().newDocumentBuilder().parse(InputSource);
*/

public class DocumentBuilderFactoryImpl extends DocumentBuilderFactory {

    Configuration config = null;
    boolean xIncludeAware = false;

    public DocumentBuilderFactoryImpl() {
        setCoalescing(true);
        setExpandEntityReferences(true);
        setIgnoringComments(false);
        setIgnoringElementContentWhitespace(false);
        setNamespaceAware(true);
        setValidating(false);
    }

    /**
     * Allows the user to set specific attributes on the underlying
     * implementation.
     * @param name The name of the attribute. For Saxon this must be one of the
     * names defined in { @link FeatureKeys}
     * @param value The value of the attribute.
     * @exception IllegalArgumentException thrown if the underlying
     * implementation doesn't recognize the attribute.
     */

    public void setAttribute(String name, Object value) {
        if (name.equals(FeatureKeys.CONFIGURATION)) {
            config = (Configuration)value;
        } else {
            if (config == null) {
                config = new Configuration();
            }
            config.setConfigurationProperty(name, value);
        }
    }

    /**
     * Allows the user to retrieve specific attributes on the underlying
     * implementation.
     * @param name The name of the attribute. For Saxon this must be one of the
     * names defined in { @link FeatureKeys}
     * @return value The value of the attribute.
     * @exception IllegalArgumentException thrown if the underlying
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 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 DocumentBuilderImpl
 *
 */

public DocumentBuilder newDocumentBuilder() throws ParserConfigurationException {
    // Check that configuration options are all available

    if (!isExpandEntityReferences()) {
        throw new ParserConfigurationException(
            "Saxon parser always expands entity references");
    }
    if (isIgnoringComments()) {
        throw new ParserConfigurationException(
            "Saxon parser does not allow comments to be ignored");
    }
    if (isIgnoringElementContentWhitespace()) {
        throw new ParserConfigurationException(
            "Saxon parser does not allow whitespace in element content to be ignored");
    }
    if (!isNamespaceAware()) {
        throw new ParserConfigurationException(
            "Saxon parser is always namespace aware");
    }

    DocumentBuilderImpl builder = new DocumentBuilderImpl();
    builder.setValidating(isValidating());
    builder.setXIncludeAware(xIncludeAware);
if (isIgnoringElementContentWhitespace()) {
    builder.setStripSpace(Whitespace.IGNORABLE);
}
builder.setConfiguration(config);
return builder;
}

/**
 * Set a feature for this <code>DocumentBuilderFactory</code> and <code>DocumentBuilder</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.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.
 * 
 * All implementations are required to support the {@link javax.xml.XMLConstants#FEATURE_SECURE_PROCESSING} feature.
 * 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>
 * <li> <code>false</code>: the implementation will processing XML according to the XML specifications without regard to possible implementation limits. </li>
 * </ul>
 * @param name  Feature name.
 * @param value Is feature state <code>true</code> or <code>false</code>.
 * @throws javax.xml.parsers.ParserConfigurationException if this <code>DocumentBuilderFactory</code> or the <code>DocumentBuilder</code>s it creates cannot support this feature.
 * @throws NullPointerException If the <code>name</code> parameter is null.
 */
public void setFeature(String name, boolean value) throws ParserConfigurationException {

if (name.equals(FEATURE_SECURE_PROCESSING) && !value) {
    // no action
} else {
    throw new ParserConfigurationException("Unsupported feature or value: "+ name);
}
}

/**
 * <p>Get the state of the named feature.</p>
 * <p/>
 * Feature names are fully qualified {@link java.net.URI}s.
 * Implementations may define their own features.
 * An {@link javax.xml.parsers.ParserConfigurationException} is thrown if this
 * <code>DocumentBuilderFactory</code> or the
 * <code>DocumentBuilder</code>s it creates cannot support the feature.
 * It is possible for an <code>DocumentBuilderFactory</code> to expose a feature value but be unable to change
 * its state.
 * <p/>
 * @param name Feature name.
 * @return State of the named feature.
 * @throws javax.xml.parsers.ParserConfigurationException
 *          if this <code>DocumentBuilderFactory</code>
 *          or the <code>DocumentBuilder</code>s it creates cannot support this feature.
 */
public boolean getFeature(String name) throws ParserConfigurationException {
    if (name.equals(FEATURE_SECURE_PROCESSING)) {
        return false;
    } else {
        throw new ParserConfigurationException("Unsupported feature: "+ name);
    }
}

/**
 * <p>Get state of XInclude processing.</p>
 *
 * @return current state of XInclude processing
 * @throws UnsupportedOperationException For backward compatibility, when implementations for
 * earlier versions of JAXP is used, this exception will be
 * thrown.
 * @since 1.5
 */
public boolean isXIncludeAware() {
    return xIncludeAware;
}

/**
 */
* <p>Set state of XInclude processing.</p>
* <p> If XInclude markup is found in the document instance, should it be
* processed as specified in <a href="http://www.w3.org/TR/xinclude/">XML Inclusions (XInclude) Version 1.0</a>. </p>
* <p> XInclude processing defaults to <code>true</code>. </p>
* 
* @param state Set XInclude processing to <code>true</code> or
*      <code>false</code>
* @throws UnsupportedOperationException For backward compatibility, when implementations for
*      earlier versions of JAXP is used, this exception will be
*      thrown.
* @since 1.5
*/
public void setXIncludeAware(boolean state) {
    xIncludeAware = state;
}

private static String FEATURE_SECURE_PROCESSING = "http://javax.xml.XMLConstants/feature/secure-processing";
    // XMLConstants.FEATURE_SECURE_PROCESSING in JDK 1.5

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//
package net.sf.saxon.dom;
import org.w3c.dom.DOMException;

/**
* DOM operations only raise exceptions in "exceptional" circumstances,
* i.e., when an operation is impossible to perform (either for logical
* reasons, because data is lost, or because the implementation has become
* unstable). In general, DOM methods return specific error values in ordinary
* processing situations, such as out-of-bound errors when using
* `<code>NodeList</code>`.
* `<p>` 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.
*/

public class DOMExceptionImpl extends DOMException {

    public DOMExceptionImpl (short code, String message) {
        super(code, message);
        //this.code = code;
    }

    public short code;
    // ExceptionCode
    //    public static final short INDEX_SIZE_ERR            = 1;
    //    public static final short DOMSTRING_SIZE_ERR        = 2;
    //    public static final short HIERARCHY_REQUEST_ERR     = 3;
    //    public static final short WRONG_DOCUMENT_ERR        = 4;
    //    public static final short INVALID_CHARACTER_ERR     = 5;
    //    public static final short NO_DATA_ALLOWED_ERR       = 6;
    //    public static final short NO_MODIFICATION_ALLOWED_ERR = 7;
    //    public static final short NOT_FOUND_ERR             = 8;
    //    public static final short NOT_SUPPORTED_ERR         = 9;
    //    public static final short INUSE_ATTRIBUTE_ERR       = 10;
    /**
     * @since DOM Level 2
     */
    public static final short INVALID_STATE_ERR         = 11;
    /**
     * @since DOM Level 2
     */
    public static final short SYNTAX_ERR               = 12;
    /**
     * @since DOM Level 2
     */
    public static final short INVALID_MODIFICATION_ERR  = 13;
    /**
     * @since DOM Level 2
     */
    public static final short NAMESPACE_ERR            = 14;
    /**
     * @since DOM Level 2
     */
public static final short INVALID_ACCESS_ERR = 15;

}

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//
package net.sf.saxon.dom;

import org.w3c.dom.DOMException;
import org.w3c.dom.DOMImplementation;
import org.w3c.dom.Document;
import org.w3c.dom.DocumentType;

/**
 * A simple implementation of the DOMImplementation interface, for use when accessing
 * Saxon tree structure using the DOM API.
 */

class DOMImplementationImpl implements DOMImplementation {

/**
 * Test if the DOM implementation implements a specific feature.
 * @param feature The name of the feature to test (case-insensitive).
 * @param version This is the version number of the feature to test.
 * @return <code>true</code> if the feature is implemented in the
 * specified version, <code>false</code> otherwise. This implementation
 * returns true if the feature is "XML" or "Core" and the version is null,
 * "", "3.0", "2.0", or "1.0".
 */

public boolean hasFeature(String feature, String version) {
    return (feature.equalsIgnoreCase("XML") || feature.equalsIgnoreCase("Core")) &&
(version == null || version.length() == 0 ||
version.equals("3.0") || version.equals("2.0") || version.equals("1.0"));
}

/**
 * This method returns a specialized object which implements the
 * specialized APIs of the specified feature and version, as specified
 * in .
 * @param feature  The name of the feature requested.
 * @param version  This is the version number of the feature to test.
 * @return  Always returns null in this implementation
 * @since DOM Level 3
 */

public Object getFeature(String feature,
    String version) {
    return null;
}

/**
 * Creates an empty <code>DocumentType</code> node.
 * @param qualifiedName  The  qualified name of the document type to be
 * created.
 * @param publicId  The external subset public identifier.
 * @param systemId  The external subset system identifier.
 * @return  A new <code>DocumentType</code> node with
 * <code>Node.ownerDocument</code> set to <code>null</code> .
 * @exception org.w3c.dom.DOMException
 *    INVALID_CHARACTER_ERR: Raised if the specified qualified name
 * contains an illegal character.
 *    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.
public Document createDocument(String namespaceURI,
        String qualifiedName,
        DocumentType doctype)
        throws DOMException
{
    NodeOverNodeInfo.disallowUpdate();
    return null;
}

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;
}

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package net.sf.saxon.dom;
import net.sf.saxon.Configuration;
import net.sf.saxon.AugmentedSource;
import net.sf.saxon.value.Whitespace;
import net.sf.saxon.om.Validation;
import net.sf.saxon.event.Builder;
import net.sf.saxon.event.PipelineConfiguration;
import net.sf.saxon.eventSenderId;
import net.sf.saxon.tinytree.TinyDocumentImpl;
import net.sf.saxon.trans.XPathException;
import org.w3c.dom.DOMImplementation;
import org.w3c.dom.Document;
import org.xml.sax.*;
import javax.xml.parsers.DocumentBuilder;
import javax.xml.transform.sax.SAXSource;
import javax.xml.transform.Source;
import java.io.File;
import java.io.IOException;

/**
 * This class implements the JAXP DocumentBuilder interface, allowing a Saxon TinyTree to be
 * constructed using standard JAXP parsing interfaces. The returned DOM document node is a wrapper
 * over the Saxon TinyTree structure. Note that although this wrapper
 * implements the DOM interfaces, it is read-only, and all attempts to update it will throw
 * an exception. No schema or DTD validation is carried out on the document.
 */

public class DocumentBuilderImpl extends DocumentBuilder {

    private Configuration config;
    private EntityResolver entityResolver;
    private ErrorHandler errorHandler;
    private boolean xIncludeAware;
    private boolean validating;
    private int stripSpace = Whitespace.UNSPECIFIED;

    /**
     * Set the Saxon Configuration to be used by the document builder.
     * This non-JAXP method must be called if the resulting document is to be used
     * within a Saxon query or transformation. If no Configuration is supplied,
     * Saxon creates a Configuration on the first call to the {@link #parse} method,
     * and subsequent calls reuse the same Configuration.
     *<p>As an alternative to calling this method, a Configuration can be supplied by calling
     *<code>setAttribute(FeatureKeys.CONFIGURATION, config)</code> on the
     *<code>DocumentBuilderFactory</code>
     *object, where <code>config</code> can be obtained by calling
     *<code>getAttribute(FeatureKeys.CONFIGURATION)</code> on the <code>TransformerFactory</code>.
     *</p>
     *<p>@since Saxon 8.8</p>
     */

    public void setConfiguration(Configuration config) {
        this.config = config;
    }

    /**
     */
* Get the Saxon Configuration to be used by the document builder. This is
* a non-JAXP method.
* @return the Configuration previously supplied to {link #setConfiguration},
* or the Configuration created automatically by Saxon on the first call to the
* {link #parse} method, or null if no Configuration has been supplied and
* the {link #parse} method has not been called.
* @since Saxon 8.8
*/

public Configuration getConfiguration() {
    return config;
}

/**
 * Indicates whether or not this document builder is configured to
 * understand namespaces.
 *
 * @return true if this document builder is configured to understand
 *         namespaces. This implementation always returns true.
 */

public boolean isNamespaceAware() {
    return true;
}

/**
 * Determine whether the document builder should perform DTD validation
 * @param state set to true to request DTD validation
 */

public void setValidating(boolean state) {
    validating = state;
}

/**
 * Indicates whether or not this document builder is configured to
 * validate XML documents against a DTD.
 *
 * @return true if this parser is configured to validate
 *         XML documents against a DTD; false otherwise.
 */

public boolean isValidating() {
    return validating;
}
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.setEntityResolver(entityResolver);
        }
    }
    return 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.<i>
 *
 * @param f The file containing the XML to parse.
 * @exception java.io.IOException If any IO errors occur.
 * @exception SAXException If any parse errors occur.
 * @return A new DOM Document object.
 */

public Document parse(File f) throws SAXException, IOException {
    if (f == null) {
        throw new IllegalArgumentException("File cannot be null");
    }

    String uri = f.toURI().toString();
InputSource in = new InputSource(uri);
return parse(in);
}

/**
 * Specify the [link EntityResolver] to be used to resolve
 * entities present in the XML document to be parsed. Setting
 * this to <code>null</code> will result in the underlying
 * implementation using the EntityResolver registered with the
 * XMLReader contained in the InputSource.
 *
 * @param er The <code>EntityResolver</code> 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 <code>null</code> will result in the underlying
 * implementation using using the ErrorHandler registered with the
 * XMLReader contained in the InputSource.
 *
 * @param eh The <code>ErrorHandler</code> to be used by the parser.
 */
public void setErrorHandler(ErrorHandler eh) {
    errorHandler = eh;
}

/**
 * Obtain an instance of a [link DOMImplementation] object.
 *
 * @return A new instance of a <code>DOMImplementation</code>.
 */
public DOMImplementation getDOMImplementation() {
    return newDocument().getImplementation();
}

/**
 * <p>Set state of XInclude processing.</p>
 *<p>
 * If XInclude markup is found in the document instance, should it be
public void setXIncludeAware(boolean state) {
    xIncludeAware = state;
}

/**
 * Get the XInclude processing mode for this parser.
 *
 * @return the return value of
 *         the {link javax.xml.parsers.DocumentBuilderFactory#isXIncludeAware()}
 *         when this parser was created from factory.
 * @throws UnsupportedOperationException For backward compatibility, when implementations for
 *         earlier versions of JAXP is used, this exception will be
 *         thrown.
 * @see javax.xml.parsers.DocumentBuilderFactory#setXIncludeAware(boolean)
 * @since JAXP 1.5, Saxon 8.9
 */
public boolean isXIncludeAware() {
    return xIncludeAware;
}

/**
 * Set the space-stripping action to be applied to the source document
 * @param stripAction one of {link net.sf.saxon.value.Whitespace#IGNORABLE},
 *                    {link net.sf.saxon.value.Whitespace#ALL}, or {link net.sf.saxon.value.Whitespace#NONE}
 * @since 8.9
 */
public void setStripSpace(int stripAction) {
    stripSpace = stripAction;
}

/**
 * Get the space-stripping action to be applied to the source document
 * @return one of {link net.sf.saxon.value.Whitespace#IGNORABLE},
 *         {link net.sf.saxon.value.Whitespace#ALL}, or {link net.sf.saxon.value.Whitespace#NONE}
 * @since 8.9
 */
public int getStripSpace() {
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
public NamespaceDeclarationsImpl(NamePool pool, int[] codes) {
    namePool = pool;
    setNamespaceCodes(codes);
}

/**
 * Set the name pool
 * @param pool the NamePool
 */

public void setNamePool(NamePool pool) {
    namePool = pool;
}

/**
 * Set the namespace codes.
 * @param codes an integer array holding the namespace codes. These
codes are allocated by the name pool, and can be used to look up
* a prefix and uri in the name pool. If the array contains the integer
* -1, this acts as a terminator for the list. This is the format
* returned by the method {@link NodeInfo#getDeclaredNamespaces(int[])}. A value of null is equivalent to supplying an empty array.
*/

public void setNamespaceCodes(int[] codes) {
    if (codes == null) {
        codes = emptyArray;
    }
    namespaceCodes = codes;
    used = codes.length;
    for (int i=0; i<codes.length; i++) {
        if (codes[i] == -1) {
            used = i;
            break;
        }
    }
}

/**
 * Get all the namespace codes, as an array.
 */
* @param buffer a sacrificial array that the method is free to use to contain the result.
*    May be null.
* @return an integer array containing namespace codes. The array may be filled completely
*    with namespace codes, or it may be incompletely filled, in which case a -1 integer acts
*    as a terminator.
*/

public int[] getNamespaceCodes(int[] buffer) {
    return namespaceCodes;
}

/**
* Get the number of declarations (and undeclarations) in this list.
*/

public int getNumberOfNamespaces() {
    return used;
}

/**
* Get the prefix of the n'th declaration (or undeclaration) in the list,
* counting from zero.
* @param index the index identifying which declaration is required.
* @return the namespace prefix. For a declaration or undeclaration of the
*         default namespace, this is the zero-length string.
* @throws IndexOutOfBoundsException if the index is out of range.
*/

public String getPrefix(int index) {
    return namePool.getPrefixFromNamespaceCode(namespaceCodes[index]);
}

/**
* Get the namespace URI of the n'th declaration (or undeclaration) in the list,
* counting from zero.
* @param index the index identifying which declaration is required.
* @return the namespace URI. For a namespace undeclaration, this is the
*         zero-length string.
* @throws IndexOutOfBoundsException if the index is out of range.
*/

public String getURI(int index) {
    return namePool.getURIFromNamespaceCode(namespaceCodes[index]);
}

/**
* Get the n'th declaration in the list in the form of a namespace code. Namespace codes can be translated into a prefix and URI by means of methods in the NamePool.

* @param index the index identifying which declaration is required.
* @return the namespace code. This is an integer whose upper half indicates the prefix (0 represents the default namespace), and whose lower half indicates the URI (0 represents an undeclaration).
* @throws IndexOutOfBoundsException if the index is out of range.
* @see NamePool#getPrefixFromNamespaceCode(int)
* @see NamePool#getURIFromNamespaceCode(int)
*/

public int getNamespaceCode(int index) {
    return namespaceCodes[index];
}
}

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//
package net.sf.saxon.om;

import net.sf.saxon.Configuration;
import net.sf.saxon.event.LocationProvider;
import org.xml.sax.Attributes;

/**
 * AttributeCollectionImpl is an implementation of both the SAX2 interface Attributes and the Saxon equivalent AttributeCollection.
 *
 * <p>As well as providing the information required by the SAX2 interface, an
* AttributeCollection can hold type information (as needed to support the JAXP 1.3
* [javax.xml.validation.ValidatorHandler] interface), and location information
* for debugging. The location information is used in the case of attributes on a result
* tree to identify the location in the query or stylesheet from which they were
* generated.
* /

public final class AttributeCollectionImpl implements Attributes, AttributeCollection {

    // Attribute values are maintained as an array of Strings. Everything else is maintained
    // in the form of integers.

    private Configuration config;
    private LocationProvider locationProvider;
    private String[] values = null;
    private int[] codes = null;
    private int used = 0;

    // Empty attribute collection. The caller is trusted not to try and modify it.

    public static final AttributeCollection EMPTY_ATTRIBUTE_COLLECTION =
            new AttributeCollectionImpl(null);

    // Layout of the integer array. There are RECSIZE integers for each attribute.

    private static final int RECSIZE = 4;

    //private static final int NAMECODE = 0;
    private static final int TYPECODE = 1;
    private static final int LOCATIONID = 2;
    private static final int PROPERTIES = 3;

    /**
     * Create an empty attribute list.
     * @param config the Saxon Configuration
     */

    public AttributeCollectionImpl(Configuration config) {
        this.config = config;
        used = 0;
    }

    /**
     * Set the location provider. This must be set if the methods getSystemId() and getLineNumber()
     * are to be used to get location information for an attribute.
     * @param provider the location provider
     */
public void setLocationProvider(LocationProvider provider) {
    locationProvider = provider;
}

/**
 * Add an attribute to an attribute list. The parameters correspond
 * to the parameters of the [ @link net.sf.saxon.event.Receiver#attribute(int,int,CharSequence,int,int) ]
 * method. There is no check that the name of the attribute is distinct from other attributes
 * already in the collection: this check must be made by the caller.
 *
 * @param nameCode Integer representing the attribute name.
 * @param typeCode The attribute type code
 * @param value The attribute value (must not be null)
 * @param locationId Identifies the attribute location.
 * @param properties Attribute properties
 */

public void addAttribute(int nameCode, int typeCode, String value, long locationId, int properties) {
    if (values == null) {
        values = new String[5];
        codes = new int[5 * RECSIZE];
        used = 0;
    }
    if (values.length == used) {
        int newsize = (used == 0 ? 5 : used * 2);
        String[] v2 = new String[newsize];
        int[] c2 = new int[newsize * RECSIZE];
        System.arraycopy(values, 0, v2, 0, used);
        System.arraycopy(codes, 0, c2, 0, used*RECSIZE);
        values = v2;
        codes = c2;
    }
    int n = used*RECSIZE;
    codes[n] = nameCode;
    codes[n+TYPECODE] = typeCode;
    codes[n+LOCATIONID] = (int)locationId;
    codes[n+PROPERTIES] = properties;
    values[used++] = value;
}

/**
 * Set (overwrite) an attribute in the attribute list. The parameters correspond
 * to the parameters of the [ @link net.sf.saxon.event.Receiver#attribute(int,int,CharSequence,int,int) ]
 * method.
 * @param index Identifies the entry to be replaced
 * @param nameCode Integer representing the attribute name.
 * @param typeCode The attribute type code
 * @param value The attribute value (must not be null)
public void setAttribute(int index, int nameCode, int typeCode, String value, long locationId, int properties) {
    int n = index*RECSIZE;
    codes[n] = nameCode;
    codes[n+TYPECODE] = typeCode;
    codes[n+LOCATIONID] = (int)locationId;
    codes[n+PROPERTIES] = properties;
    values[index] = value;
}

/**
 * Clear the attribute list. This removes the values but doesn't free the memory used.
 * free the memory, use clear() then compact().
 */

public void clear() {
    used = 0;
}

/**
 * Compact the attribute list to avoid wasting memory
 */

public void compact() {
    if (used == 0) {
        codes = null;
        values = null;
    } else if (values.length > used) {
        String[] v2 = new String[used];
        int[] c2 = new int[used * RECSIZE];
        System.arraycopy(values, 0, v2, 0, used);
        System.arraycopy(codes, 0, c2, 0, used*RECSIZE);
        values = v2;
        codes = c2;
    }
}

/**
 * Return the number of attributes in the list.
 * @return The number of attributes in the list.
 */

public int getLength() {
return (values == null ? 0 : used);
}

/**
 * Get the namecode of an attribute (by position).
 * @param index The position of the attribute in the list.
 * @return The display name of the attribute as a string, or null if there
 * is no attribute at that position.
 */
public int getNameCode(int index) {
    if (codes == null) {
        return -1;
    }
    if (index < 0 || index >= used) {
        return -1;
    }

    return codes[(index * RECSIZE)];
}

/**
 * Get the namecode of an attribute (by position).
 * @param index The position of the attribute in the list.
 * @return The type annotation, as the fingerprint of the type name.
 * The bit @link net.sf.saxon.om.NodeInfo#IS_DTD_TYPE} represents a DTD-derived type.
 */
public int getTypeAnnotation(int index) {
    if (codes == null) {
        return StandardNames.XS_UNTYPED_ATOMIC;
    }
    if (index < 0 || index >= used) {
        return StandardNames.XS_UNTYPED_ATOMIC;
    }

    return codes[index * RECSIZE + TYPECODE];
}

/**
 * Get the locationID of an attribute (by position)
 * @param index The position of the attribute in the list.
 * @return The location identifier of the attribute. This can be supplied
 * to a @link net.sf.saxon.event.LocationProvider} in order to obtain the
 * actual system identifier and line number of the relevant location
 */
public int getLocationId(int index) {
    if (codes == null) {
        return -1;
    }
    if (index < 0 || index >= used) {
        return -1;
    }

    return codes[index * RECSIZE + LOCATIONID];
}

/**
* Get the systemId part of the location of an attribute, at a given index.
*<p>Attribute location information is not available from a SAX parser, so this method
* is not useful for getting the location of an attribute in a source document. However,
* in a Saxon result document, the location information represents the location in the
* stylesheet of the instruction used to generate this attribute, which is useful for
* debugging.</p>
* @param index the required attribute
* @return the systemId of the location of the attribute
*/

public String getSystemId(int index) {
    return locationProvider.getSystemId(getLocationId(index));
}

/**
* Get the line number part of the location of an attribute, at a given index.
*
*<p>Attribute location information is not available from a SAX parser, so this method
* is not useful for getting the location of an attribute in a source document. However,
* in a Saxon result document, the location information represents the location in the
* stylesheet of the instruction used to generate this attribute, which is useful for
* debugging.</p>
* @param index the required attribute
* @return the line number of the location of the attribute
*/

public int getLineNumber(int index) {
    return locationProvider.getLineNumber(getLocationId(index));
}

/**
* Get the properties of an attribute (by position)
* @param index The position of the attribute in the list.
* @return The properties of the attribute. This is a set
* of bit-settings defined in class { @link net.sf.saxon.event.ReceiverOptions }. The
* most interesting of these is {{ @link net.sf.saxon.event.ReceiverOptions#DEFAULTED_ATTRIBUTE },
* which indicates an attribute that was added to an element as a result of schema validation.
*/

```java
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;
    }
```
public String getLocalName(int index) {
    if (codes == null) {
        return null;
    }
    if (index < 0 || index >= used) {
        return null;
    }
    return config.getNamePool().getLocalName(getNameCode(index));
}

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.
 */

/**
 * 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.
 */

/**
 * 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.
 */
* @return The attribute type as a string ("NMTOKEN" for an
* enumeration, and "CDATA" if no declaration was
* read), or null if there is no attribute at
* that position.
*/

public String getType(int index) {
    int typeCode = getTypeAnnotation(index) & NamePool.FP_MASK;
    switch (typeCode) {
        case StandardNames.XS_ID: return "ID";
        case StandardNames.XS_IDREF: return "IDREF";
        case StandardNames.XS_NMTOKEN: return "NMTOKEN";
        case StandardNames.XS_ENTITY: return "ENTITY";
        case StandardNames.XS_IDREFS: return "IDREFS";
        case StandardNames.XS_NMTOKENS: return "NMTOKENS";
        case StandardNames.XS_ENTITIES: return "ENTITIES";
        default: return "CDATA";
    }
}

/**
 * Get the type of an attribute (by name).
 *
 * @param uri       The namespace uri of the attribute.
 * @param localname The local name of the attribute.
 * @return The index position of the attribute
 */

public String getType(String uri, String localname) {
    int index = findByName(uri, localname);
    return (index < 0 ? null : getType(index));
}

/**
 * Get the value of an attribute (by position).
 *
 * @param index The position of the attribute in the list.
 * @return The attribute value as a string, or null if
 * there is no attribute at that position.
 */

public String getValue(int index) {
    if (values == null) {
        return null;
    }
    if (index < 0 || index >= used) {
        return null;
    }
/**
 * 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;
    }
    String[] parts;
    try {
        parts = Name11Checker.getInstance().getQNameParts(qname);
    } catch (QNameException err) {
        return -1;
    }
    if (parts.length() == 0) {
        return 0;
    }
    String prefix = parts[0];
    if (prefix.length() == 0) {
        return 0;
        // Searching using prefix+localname is not recommended, but SAX allows it...
        String[] parts;
        try {
            parts = Name11Checker.getInstance().getQNameParts(qname);
        } catch (QNameException err) {
            return -1;
        }
        String prefix = parts[0];
        if (prefix.length() == 0) {
return findByName("", qname);
} else {
    String localName = parts[1];
    for (int i = 0; i < used; i++) {
        String lname = config.getNamePool().getLocalName(getNameCode(i));
        String ppref = config.getNamePool().getPrefix(getNameCode(i));
        if (localName.equals(lname) && prefix.equals(ppref)) {
            return i;
        }
    }
    return -1;
}

/**
 * Get the index of an attribute (by name).
 *
 * @param uri       The namespace uri of the attribute.
 * @param localname The local name of the attribute.
 * @return The index position of the attribute
 */

public int getIndex(String uri, String localname) {
    return findByName(uri, localname);
}

/**
 * Get the index, given the fingerprint.
 * Return -1 if not found.
 */

public int getIndexByFingerprint(int fingerprint) {
    return findByFingerprint(fingerprint);
}

/**
 * Get the type of an attribute (by lexical QName).
 *
 * @param name The lexical QName of the attribute.
 * @return The attribute type as a string (e.g. "NMTOKEN", or
 *         "CDATA" if no declaration was read).
 */

public String getType(String name) {
    int index = getIndex(name);
    return getType(index);
}
/**
 * Get the value of an attribute (by lexical QName).
 *
 * @param name The attribute name (a lexical QName).
 * The prefix must match the prefix originally used. This method is defined in SAX, but is
 * not recommended except where the prefix is null.
 */

public String getValue(String name) {
    int index = getIndex(name);
    return getValue(index);
}

/**
 * Find an attribute by expanded name
 * @param uri the namespace uri
 * @param localName the local name
 * @return the index of the attribute, or -1 if absent
 */

private int findByName(String uri, String localName) {
    if (config == null) {
        return -1; // indicates an empty attribute set
    }
    NamePool namePool = config.getNamePool();
    int f = namePool.getFingerprint(uri, localName);
    if (f == -1) {
        return -1;
    }
    return findByFingerprint(f);
}

/**
 * Find an attribute by fingerprint
 * @param fingerprint the fingerprint representing the name of the required attribute
 * @return the index of the attribute, or -1 if absent
 */

private int findByFingerprint(int fingerprint) {
    if (codes == null) {
        return -1;
    }
    for (int i = 0; i < used; i++) {
        if (fingerprint == (codes[(i * RECSIZE)] & NamePool.FP_MASK)) {
            return i;
        }
    }
}
public boolean isId(int index) {
    return (codes[index * RECSIZE] & NamePool.FP_MASK) == StandardNames.XML_ID
        || config.getTypeHierarchy().isIdCode(getTypeAnnotation(index));
//        return getType(index).equals("ID")
//        || ((getNameCode(index) & NamePool.FP_MASK) == StandardNames.XML_ID);
}

/**
 * Determine whether a given attribute has the is-idref property set
 */

public boolean isIdref(int index) {
    return config.getTypeHierarchy().isIdrefsCode(getTypeAnnotation(index));
}

/**
 * Delete the attribute with a given fingerprint
 * @param fingerprint The fingerprint of the attribute to be removed
 */

public void removeAttribute(int fingerprint) {
    int index = findByFingerprint(fingerprint);
    if (index == -1) {
        // no action
    } else if (index == used-1) {
        used--;
    } else {
        System.arraycopy(values, index+1, values, index, used-index-1);
        System.arraycopy(codes, (index+1)*RECSIZE, codes, index*RECSIZE, (used-index-1)*RECSIZE);
        used--;
    }
}

/**
 * Rename an attribute
 * @param oldName the namecode of the existing name
 * @param newName the namecode of the new name
 */

public void renameAttribute(int oldName, int newName) {
    int index = findByFingerprint(oldName & NamePool.FP_MASK);
```java
if (index == -1) {
    // no action
} else {
    codes[index*RECSIZE] = newName;
}
}

/**
 * Replace the value of an attribute
 * @param nameCode the name code of the attribute name
 * @param newValue the new string value of the attribute
 */

public void replaceAttribute(int nameCode, CharSequence newValue) {
    int index = findByFingerprint(nameCode & NamePool.FP_MASK);
    if (index == -1) {
        // no action
    } else {
        values[index] = newValue.toString();
    }
}

/**
 * Set the type annotation of an attribute
 * @param nameCode the name code of the attribute name
 * @param typeCode the new type code for the attribute
 */

public void setTypeAnnotation(int nameCode, int typeCode) {
    int index = findByFingerprint(nameCode & NamePool.FP_MASK);
    if (index == -1) {
        // no action
    } else {
        codes[index*RECSIZE + TYPECODE] = typeCode;
    }
}

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```
package net.sf.saxon.om;

import net.sf.saxon.pattern.NodeTest;
import net.sf.saxon.value.Value;
import net.sf.saxon.trans.XPathException;

/**
 * A SequenceIterator is used to iterate over a sequence. An AxisIterator
 * is a SequenceIterator that always iterates over a set of nodes, and that
 * throws no exceptions; it also supports the ability
 * to find the last() position, again with no exceptions.
 * This class is an abstract implementation of AxisIterator that is used
 * as a base class for many concrete implementations. The main functionality
 * that it provides is maintaining the current position.
 */

public abstract class AxisIteratorImpl implements AxisIterator {

    protected int position = 0;
    protected NodeInfo current;

    /**
     * Move to the next node, without returning it. Returns true if there is
     * a next node, false if the end of the sequence has been reached. After
     * calling this method, the current node may be retrieved using the
     * current() function.
     */

    public boolean moveNext() {
        return (next() != null);
    }

    /**
     * Get the current node in the sequence.
     * @return the node returned by the most recent call on next()
     */

    public Item current() {
return current;
}

/**
 * Get the current position
 * @return the position of the most recent node returned by next()
 */

public final int position() {
    return position;
}

public void close() {
}

/**
 * Return an iterator over an axis, starting at the current node.
 * @param axis the axis to iterate over, using a constant such as
 *             { @link Axis#CHILD}
 * @param test a predicate to apply to the nodes before returning them.
 */

public AxisIterator iterateAxis(byte axis, NodeTest test) {
    return current.iterateAxis(axis, test);
}

/**
 * Return the atomized value of the current node.
 * @return the atomized value.
 * @throws NullPointerException if there is no current node
 */

public Value atomize() throws XPathException {
    return current.atomize();
}

/**
 * Return the string value of the current node.
 * @return the string value, as an instance of CharSequence.
 * @throws NullPointerException if there is no current node
 */

public CharSequence getStringValue() {
    return current.getStringValueCS();
}
/**
 * Get properties of this iterator, as a bit-significant integer.
 *
 * @return the properties of this iterator. This will be some combination of
 *         properties such as [@link #GROUNDED], [@link #LASTPOSITIONFINDER],
 *         and [@link #LOOKAHEAD]. It is always
 *         acceptable to return the value zero, indicating that there are no known special properties.
 *         It is acceptable for the properties of the iterator to change depending on its state.
 */

public int getProperties() {
    return 0;
}

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//
// The Original Code is: all this file.
//
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//
package net.sf.saxon;
import net.sf.saxon.event.Builder;
import net.sf.saxon.event.Receiver;
import net.sf.saxon.event.ReceivingContentHandler;
import net.sf.saxon.om.DocumentInfo;
import net.sf.saxon.om.Validation;
import net.sf.saxon.trans.XPathException;
import net.sf.saxon.value.Whitespace;
import org.xml.sax.SAXException;
import javax.xml.transform.Result;
import javax.xml.transform.Transformer;
import javax.xml.transform.TransformerException;
import javax.xml.transform.sax.TransformerHandler;

/**
 * <b>TransformerHandlerImpl</b> implements the javax.xml.transform.sax.TransformerHandler
 * interface. It acts as a ContentHandler and LexicalHandler which receives a stream of
 * SAX events representing an input document, and performs a transformation treating this
 * SAX stream as the source document of the transformation.
 * @author Michael H. Kay
 */

public class TransformerHandlerImpl extends ReceivingContentHandler implements TransformerHandler {

    Controller controller;
    Builder builder;
    Receiver receiver;
    Result result;
    String systemId;
    boolean started = false;

    /**
     * Create a TransformerHandlerImpl and initialise variables. The constructor is protected, because
     * the Filter should be created using newTransformerHandler() in the SAXTransformerFactory
     * class
     * @param controller the Controller to be used
     */

    protected TransformerHandlerImpl(Controller controller) {
        this.controller = controller;
        Configuration config = controller.getConfiguration();
        int validation = config.getSchemaValidationMode();
        builder = controller.makeBuilder();
        setPipelineConfiguration(builder.getPipelineConfiguration());
        receiver = controller.makeStripper(builder);
        if (controller.getExecutable().stripsInputTypeAnnotations()) {
            receiver = controller.getConfiguration().getAnnotationStripper(receiver);
        }
        int val = validation & Validation.VALIDATION_MODE_MASK;
        if (val != Validation.PRESERVE) {
            receiver = config.getDocumentValidator(
                receiver, getSystemId(), val, Whitespace.NONE, null, -1);
        }
        setReceiver(receiver);
    }

    /**
     * Start of a new document. The TransformerHandler is not serially reusable, so this method
     */
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");
// }
// }

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package net.sf.saxon.instruct;
import net.sf.saxon.Controller;
import net.sf.saxon.expr.*;
import net.sf.saxon.om.NamespaceResolver;
import net.sf.saxon.om.QNameException;
import net.sf.saxon.om.StandardNames;
import net.sf.saxon.om.StructuredQName;
import net.sf.saxon.trace.ExpressionPresenter;
import net.sf.saxon.trans.XPathException;
import net.sf.saxon.type.AnyItemType;
import net.sf.saxon.type.ItemType;
import net.sf.saxon.type.TypeHierarchy;
import java.util.ArrayList;
import java.util.Arrays;
import java.util.Iterator;

/**
 * Instruction representing an xsl:call-template element in the stylesheet.
 */

public class CallTemplate extends Instruction {

    private Template template = null;
    private WithParam[] actualParams = null;
    private WithParam[] tunnelParams = null;
    private boolean useTailRecursion = false;
    private Expression calledTemplateExpression;    // allows name to be an AVT
    private NamespaceResolver nsContext;             // needed only for a dynamic call

    /**
     * Construct a CallTemplate instruction.
     * @param template the Template object identifying the template to be called, in the normal
     * case where this is known statically
     */

* @param useTailRecursion true if the call is potentially tail recursive
* @param calledTemplateExpression expression to calculate the name of the template to be called
* at run-time, this supports the saxon:allow-avt option
* @param nsContext the static namespace context of the instruction, needed only in the case
* where the name of the called template is to be calculated dynamically
*/

```java
public CallTemplate (   Template template,
    boolean useTailRecursion,
    Expression calledTemplateExpression,
    NamespaceResolver nsContext ) {

    this.template = template;
    this.useTailRecursion = useTailRecursion;
    this.calledTemplateExpression = calledTemplateExpression;
    this.nsContext = nsContext;
    adoptChildExpression(calledTemplateExpression);
}

/**
* Set the actual parameters on the call
* @param actualParams the parameters that are not tunnel parameters
* @param tunnelParams the tunnel parameters
*/

public void setActualParameters(
    WithParam[] actualParams,
    WithParam[] tunnelParams ) {

    this.actualParams = actualParams;
    this.tunnelParams = tunnelParams;
    for (int i=0; i<actualParams.length; i++) {
        adoptChildExpression(actualParams[i]);
    }
    for (int i=0; i<tunnelParams.length; i++) {
        adoptChildExpression(tunnelParams[i]);
    }
}

/**
* Return the name of this instruction.
*/

public int getInstructionNameCode() {
    return StandardNames.XSL_CALL_TEMPLATE;
}

/**
* Set additional trace properties appropriate to the kind of instruction. This
```
* implementation adds the template property, which identifies the template to be called
*/

/**
 * Simplify an expression. This performs any static optimization (by rewriting the expression
 * as a different expression).
 *
 * @exception XPathException if an error is discovered during expression
 * rewriting
 * @return the simplified expression
 * @param visitor an expression visitor
 */

public Expression simplify(ExpressionVisitor visitor) throws XPathException {
    WithParam.simplify(actualParams, visitor);
    WithParam.simplify(tunnelParams, visitor);
    if (calledTemplateExpression != null) {
        calledTemplateExpression = visitor.simplify(calledTemplateExpression);
    }
    return this;
}

public Expression typeCheck(ExpressionVisitor visitor, ItemType contextItemType) throws XPathException {
    WithParam.typeCheck(actualParams, visitor, contextItemType);
    WithParam.typeCheck(tunnelParams, visitor, contextItemType);
    if (calledTemplateExpression != null) {
        calledTemplateExpression = visitor.typeCheck(calledTemplateExpression, contextItemType);
        adoptChildExpression(calledTemplateExpression);
    }
    return this;
}

public Expression optimize(ExpressionVisitor visitor, ItemType contextItemType) throws XPathException {
    WithParam.optimize(visitor, actualParams, contextItemType);
    WithParam.optimize(visitor, tunnelParams, contextItemType);
    if (calledTemplateExpression != null) {
        calledTemplateExpression = visitor.optimize(calledTemplateExpression, contextItemType);
        adoptChildExpression(calledTemplateExpression);
    }
    return this;
}
/**
 * Get the cardinality of the sequence returned by evaluating this instruction
 *
 * @return the static cardinality
 */

public int computeCardinality() {
    if (template == null) {
        return StaticProperty.ALLOWS_ZERO_OR_MORE;
    } else {
        return template.getRequiredType().getCardinality();
    }
}

/**
 * Get the item type of the items returned by evaluating this instruction
 *
 * @param th the type hierarchy cache
 * @return the static item type of the instruction
 */

public ItemType getItemType(TypeHierarchy th) {
    if (template == null) {
        return AnyItemType.getInstance();
    } else {
        return template.getRequiredType().getPrimaryType();
    }
}

/**
 * Copy an expression. This makes a deep copy.
 *
 * @return the copy of the original expression
 */

public Expression copy() {
    throw new UnsupportedOperationException("copy");
}

public int getIntrinsicDependencies() {
    // we could go to the called template and find which parts of the context it depends on, but this
    // would create the risk of infinite recursion. So we just assume that the dependencies exist
    return StaticProperty.DEPENDS_ON_XSLT_CONTEXT |
            StaticProperty.DEPENDS_ON_FOCUS;
}
/**
 * Determine whether this instruction creates new nodes.
 * This implementation currently returns true unconditionally.
 */

public final boolean createsNewNodes() {
    return true;
}

/**
 * Get all the XPath expressions associated with this instruction
 * (in XSLT terms, the expression present on attributes of the instruction,
 * as distinct from the child instructions in a sequence construction)
 */

public Iterator iterateSubExpressions() {
    ArrayList list = new ArrayList(10);
    if (calledTemplateExpression != null) {
        list.add(calledTemplateExpression);
    }
    WithParam.getXPathExpressions(actualParams, list);
    WithParam.getXPathExpressions(tunnelParams, list);
    return list.iterator();
}

/**
 * Replace one subexpression by a replacement subexpression
 * @param original the original subexpression
 * @param replacement the replacement subexpression
 * @return true if the original subexpression is found
 */

public boolean replaceSubExpression(Expression original, Expression replacement) {
    boolean found = false;
    if (WithParam.replaceXPathExpression(actualParams, original, replacement)) {
        found = true;
    }
    if (WithParam.replaceXPathExpression(tunnelParams, original, replacement)) {
        found = true;
    }
    if (calledTemplateExpression == original) {
        calledTemplateExpression = replacement;
    }
    return found;
}
protected void promoteInst(PromotionOffer offer) throws XPathException {
    if (calledTemplateExpression != null) {
        calledTemplateExpression = doPromotion(calledTemplateExpression, offer);
    }
    WithParam.promoteParams(actualParams, offer);
    WithParam.promoteParams(tunnelParams, offer);
}

/**
* Process this instruction, without leaving any tail calls.
* @param context the dynamic context for this transformation
* @throws XPathException if a dynamic error occurs
*/
public void process(XPathContext context) throws XPathException {;
    Template t = getTargetTemplate(context);
    XPathContextMajor c2 = context.newContext();
    c2.setOrigin(this);
    c2.openStackFrame(t.getStackFrameMap());
    c2.setLocalParameters(assembleParams(context, actualParams));
    c2.setTunnelParameters(assembleTunnelParams(context, tunnelParams));
    try {
        TailCall tc = t.expand(c2);
        while (tc != null) {
            tc = tc.processLeavingTail();
        }
    } catch (StackOverflowError e) {
        XPathException err = new XPathException("Too many nested template or function calls. The stylesheet may be looping.");
        err.setLocator(this);
        err.setXPathContext(context);
        throw err;
    }
}

/**
* Process this instruction. If the called template contains a tail call (which may be
* an xsl:call-template 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
*/
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.
    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);
}

public Template getTargetTemplate(XPathContext context) throws XPathException {
    if (calledTemplateExpression != null) {
        Controller controller = context.getController();
        CharSequence qname = calledTemplateExpression.evaluateAsExpression(context);
    }

    /**
     * Get the template, in the case where it is specified dynamically.
     * @param context The dynamic context of the transformation
     * @param template The template to be called
     * @throws XPathException if a dynamic error occurs: specifically, if the
     * template name is computed at run-time (Saxon extension) and the name is invalid
     * or does not reference a known template
     */
    public Template getTargetTemplate(XPathContext context) throws XPathException {
        if (calledTemplateExpression != null) {
            Controller controller = context.getController();
            CharSequence qname = calledTemplateExpression.evaluateAsExpression(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);
} else {
    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;
    }
}
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);
}
}
import net.sf.saxon.om.*;
import net.sf.saxon.trace.ExpressionPresenter;
import net.sf.saxon.trace.Location;
import net.sf.saxon.trace.TraceListener;
import net.sf.saxon.trans.Mode;
import net.sf.saxon.trans.Rule;
import net.sf.saxon.trans.SaxonErrorCode;
import net.sf.saxon.trans.XPathException;
import net.sf.saxon.type.ItemType;
import net.sf.saxon.type.Type;
import net.sf.saxon.value.Value;

import java.util.ArrayList;
import java.util.Iterator;

/**
 * An instruction representing an xsl:apply-templates element in the stylesheet
 */

public class ApplyTemplates extends Instruction {

    private Expression select;
    private WithParam[] actualParams = null;
    private WithParam[] tunnelParams = null;
    private boolean useCurrentMode = false;
    private boolean useTailRecursion = false;
    private Mode mode;
    private boolean backwardsCompatible;
    private boolean implicitSelect;

    /**
     * Construct an apply-templates instructino
     * @param select the select expression
     * @param useCurrentMode true if mode="#current" was specified
     * @param useTailRecursion true if this instruction is the last in its template
     * @param mode the mode specified on apply-templates
     * @param backwardsCompatible true if XSLT backwards compatibility is enabled
     * @param implicitSelect true if the select attribute was defaulted
     */

    public ApplyTemplates( Expression select,
                           boolean useCurrentMode,
                           boolean useTailRecursion,
                           Mode mode,
                           boolean backwardsCompatible,
                           boolean implicitSelect) {
        this.select = select;
        this.useCurrentMode = useCurrentMode;
    }
this.useTailRecursion = useTailRecursion;
this.mode = mode;
this.backwardsCompatible = backwardsCompatible;
this.implicitSelect = implicitSelect;
adoptChildExpression(select);
}

/**
 * Set the actual parameters on the call
 * @param actualParams represents the contained xsl:with-param elements having tunnel="no" (the default)
 * @param tunnelParams represents the contained xsl:with-param elements having tunnel="yes"
 */

public void setActualParameters(
    WithParam[] actualParams,
    WithParam[] tunnelParams ) {
    this.actualParams = actualParams;
    this.tunnelParams = tunnelParams;
}

/**
 * Get the name of this instruction for diagnostic and tracing purposes
 */

public int getInstructionNameCode() {
    return StandardNames.XSL_APPLY_TEMPLATES;
}

/**
 * Set additional trace properties appropriate to the kind of instruction. This
 * implementation adds the mode attribute
 */

// public InstructionInfo getInstructionInfo() {
//    InstructionDetails details = (InstructionDetails)super.getInstructionInfo();
//    details.setProperty("mode", mode);
//    return details;
// }

/**
 * Simplify an expression. This performs any static optimization (by rewriting the expression
 * as a different expression).
 * @exception XPathException if an error is discovered during expression
 * rewriting
 * @return the simplified expression
 * @param visitor the expression visitor
 */
public Expression simplify(ExpressionVisitor visitor) throws XPathException {
    WithParam.simplify(actualParams, visitor);
    WithParam.simplify(tunnelParams, visitor);
    select = visitor.simplify(select);
    return this;
}

public Expression typeCheck(ExpressionVisitor visitor, ItemType contextItemType) throws XPathException {
    WithParam.typeCheck(actualParams, visitor, contextItemType);
    WithParam.typeCheck(tunnelParams, visitor, contextItemType);
    try {
        select = visitor.typeCheck(select, contextItemType);
    } catch (XPathException e) {
        if (implicitSelect) {
            if ("XPTY0020".equals(e.getErrorCodeLocalPart())) {
                XPathException err = new XPathException("Cannot apply-templates to child nodes when the context item is an atomic value");
                err.setErrorCode("XTTE0510");
                err.setIsTypeError(true);
                throw err;
            } else if ("XPDY0002".equals(e.getErrorCodeLocalPart())) {
                XPathException err = new XPathException("Cannot apply-templates to child nodes when the context item is undefined");
                err.setErrorCode("XTTE0510");
                err.setIsTypeError(true);
                throw err;
            }
        }
        throw e;
    }
    adoptChildExpression(select);
    if (Literal.isEmptySequence(select)) {
        return select;
    }
    return this;
}

public Expression optimize(ExpressionVisitor visitor, ItemType contextItemType) throws XPathException {
    WithParam.optimize(visitor, actualParams, contextItemType);
    WithParam.optimize(visitor, tunnelParams, contextItemType);
    select = visitor.typeCheck(select, contextItemType); // More info available second time around
    select = visitor.optimize(select, contextItemType);
    adoptChildExpression(select);
    if (Literal.isEmptySequence(select)) {
        return select;
    }
    return this;
}
/**
 * Copy an expression. This makes a deep copy.
 * 
 * @return the copy of the original expression
 */

public Expression copy() {
    throw new UnsupportedOperationException("copy");
}

/**
 * Determine whether this instruction creates new nodes.
 * This implementation returns true (which is almost invariably the case, so it's not worth
 * doing any further analysis to find out more precisely).
 */

public final boolean createsNewNodes() {
    return true;
}

public void process(XPathContext context) throws XPathException {
    apply(context, false);
}

public TailCall processLeavingTail(XPathContext context) throws XPathException {
    return apply(context, useTailRecursion);
}

private TailCall apply(XPathContext context, boolean returnTailCall) throws XPathException {
    Mode thisMode = mode;
    if (useCurrentMode) {
        thisMode = context.getCurrentMode();
    }

    // handle parameters if any

    ParameterSet params = assembleParams(context, actualParams);
    ParameterSet tunnels = assembleTunnelParams(context, tunnelParams);

    if (returnTailCall) {
        XPathContextMajor c2 = context.newContext();
        c2.setOrigin(this);
        return new ApplyTemplatesPackage(
            ExpressionTool.lazyEvaluate(select, context, 1),
            thisMode, params, tunnels, c2, getLocationId());
    }
}
// Get an iterator to iterate through the selected nodes in original order

SequenceIterator iter = select.iterate(context);

// Quick exit if the iterator is empty

if (iter instanceof EmptyIterator) {
    return null;
}

// process the selected nodes now
XPathContextMajor c2 = context.newContext();
c2.setOrigin(this);
try {
    TailCall tc = applyTemplates(iter, thisMode, params, tunnels, c2, backwardsCompatible, getLocationId());
    while (tc != null) {
        tc = tc.processLeavingTail();
    }
} catch (StackOverflowError e) {
    XPathException err = new XPathException("Too many nested apply-templates calls. The stylesheet may be looping.");
    err.setErrorCode(SaxonErrorCodes.SXLM0001);
    err.setLocator(this);
    err.setXPathContext(context);
    throw err;
}
return null;

/*
 * Process selected nodes using the handlers registered for a particular
 * mode.
 *
 * @exception XPathException if any dynamic error occurs
 * @param iterator an Iterator over the nodes to be processed, in the
 * correct (sorted) order
 * @param mode Identifies the processing mode. It should match the
 * mode defined when the element handler was registered using
 * setHandler with a mode parameter. Set this parameter to null to
 * invoke the default mode.
 * @param parameters A ParameterSet containing the parameters to
 * the handler/template being invoked. Specify null if there are no
 * parameters.
 * @param tunnelParameters A ParameterSet containing the parameters to
 * the handler/template being invoked. Specify null if there are no
 */
public static TailCall applyTemplates(SequenceIterator iterator,
       Mode mode,
       ParameterSet parameters,
       ParameterSet tunnelParameters,
       XPathContextMajor context,
       boolean backwardsCompatible,
       int locationId)
       throws XPathException {
Controller controller = context.getController();
TailCall tc = null;

// Iterate over this sequence

if (controller.isTracing()) {

    context.setCurrentIterator(iterator);
    context.setCurrentMode(mode);
    while(true) {

        NodeInfo node = (NodeInfo)iterator.next();
             // We can assume it's a node - we did static type checking
        if (node == null) {
            break;
        }
        // process any tail calls returned from previous nodes
        while (tc != null) {
            tc = tc.processLeavingTail();
        }

        // find the template rule for this node
        Rule rule = controller.getRuleManager().getTemplateRule(node, mode, context);

        if (rule==null) {             // Use the default action for the node
            // No need to open a new stack frame!
            defaultAction(node, parameters, tunnelParameters, context, backwardsCompatible, locationId);
        } else {
            Template template = (Template)rule.getAction();
            TraceListener traceListener = controller.getTraceListener();

            // ...
context.setLocalParameters(parameters);
context.setTunnelParameters(tunnelParameters);
context.openStackFrame(template.getStackFrameMap());
traceListener.startCurrentItem(node);
tc = template.applyLeavingTail(context, rule);
traceListener.endCurrentItem(node);
}
}
}

} else {    // not tracing

context.setCurrentIterator(iterator);
context.setCurrentMode(mode);
boolean lookahead = (iterator.getProperties() & SequenceIterator.LOOKAHEAD) != 0;
Template previousTemplate = null;
while(true) {
    // process any tail calls returned from previous nodes. We need to do this before changing
    // the context. If we have a LookaheadIterator, we can tell whether we're positioned at the
    // end without changing the current position, and we can then return the last tail call to
    // the caller and execute it further down the stack, reducing the risk of running out of stack
    // space. In other cases, we need to execute the outstanding tail calls before moving the iterator

    if (tc != null) {
        if (lookahead && !(LookaheadIterator)iterator.hasNext()) {
            break;
        }
        do {
            tc = tc.processLeavingTail();
        } while (tc != null);
    }

    NodeInfo node = (NodeInfo)iterator.next();
    // We can assume it's a node - we did static type checking
    if (node == null) {
        break;
    }

    // find the template rule for this node

    Rule rule = controller.getRuleManager().getTemplateRule(node, mode, context);

    if (rule == null) {       // Use the default action for the node
        // No need to open a new stack frame!
        defaultAction(node, parameters, tunnelParameters, context, backwardsCompatible, locationId);
    } else {
        Template template = (Template)rule.getAction();
if (template != previousTemplate) {
    // Reuse the previous stackframe unless it's a different template rule
    previousTemplate = template;
    context.openStackFrame(template.getStackFrameMap());
    context.setLocalParameters(parameters);
    context.setTunnelParameters(tunnelParameters);
}
// noinspection ConstantConditions
tc = template.applyLeavingTail(context, rule);
}

/**
* Perform the built-in template action for a given node.
*
* @param node the node to be processed
* @param parameters the parameters supplied to apply-templates
* @param tunnelParams the tunnel parameters to be passed through
* @param context the dynamic evaluation context
* @param backwardsCompatible true if in 1.0 mode (currently makes no difference)
* @param locationId location of the instruction (apply-templates, apply-imports etc) that caused
* the built-in template to be invoked
* @exception XPathException if any dynamic error occurs
*/

public static void defaultAction(NodeInfo node,
        ParameterSet parameters,
        ParameterSet tunnelParams,
        XPathContext context,
        boolean backwardsCompatible,
        int locationId) throws XPathException {
    switch(node.getNodeKind()) {
        case Type.DOCUMENT:
        case Type.ELEMENT:
            SequenceIterator iter = node.iterateAxis(Axis.CHILD);
            XPathContextMajor c2 = context.newContext();
            c2.setOriginatingConstructType(Location.BUILT_IN_TEMPLATE);
            TailCall tc = applyTemplates(
                iter, context.getCurrentMode(), parameters, tunnelParams, c2, backwardsCompatible, locationId);
            while (tc != null) {
                tc = tc.processLeavingTail();
            }
            return;
        case Type.TEXT:
// NOTE: I tried changing this to use the text node's copy() method, but
// performance was worse

case Type.ATTRIBUTE:
    context.getReceiver().characters(node.getStringValueCS(), locationId, 0);
    return;

case Type.COMMENT:
    case Type.PROCESSING_INSTRUCTION:
    case Type.NAMESPACE:
        // no action

/**
 * Get all the XPath expressions associated with this instruction
 * (in XSLT terms, the expression present on attributes of the instruction,
 * as distinct from the child instructions in a sequence construction)
 */

public Iterator iterateSubExpressions() {
    ArrayList list = new ArrayList(10);
    list.add(select);
    WithParam.getXPathExpressions(actualParams, list);
    WithParam.getXPathExpressions(tunnelParams, list);
    return list.iterator();
}

/**
 * Given an expression that is an immediate child of this expression, test whether
 * the evaluation of the parent expression causes the child expression to be
 * evaluated repeatedly
 * @param child the immediate subexpression
 * @return true if the child expression is evaluated repeatedly
 */

public boolean hasLoopingSubexpression(Expression child) {
    return child instanceof WithParam;
}

/**
 * Replace one subexpression by a replacement subexpression
 * @param original the original subexpression
 * @param replacement the replacement subexpression
 * @return true if the original subexpression is found
 */

public boolean replaceSubExpression(Expression original, Expression replacement) {
    boolean found = false;
    if (select == original) {
select = replacement;
found = true;
}
if (WithParam.replaceXPathExpression(actualParams, original, replacement)) {
    found = true;
}
if (WithParam.replaceXPathExpression(tunnelParams, original, replacement)) {
    found = true;
    return found;
}

/**
 * Get the select expression
 * @return the select expression
 */
public Expression getSelectExpression() {
    return select;
}

/**
 * Handle promotion offers, that is, non-local tree rewrites.
 * @param offer The type of rewrite being offered
 * @throws XPathException
 */
protected void promoteInst(PromotionOffer offer) throws XPathException {
    select = doPromotion(select, offer);
    WithParam.promoteParams(actualParams, offer);
    WithParam.promoteParams(tunnelParams, offer);
}

/**
 * Diagnostic print of expression structure. The abstract expression tree
 * is written to the supplied output destination.
 * @param out output destination
 */
public void explain(ExpressionPresenter out) {
    out.startElement("applyTemplates");
    if (mode != null && !mode.isDefaultMode()) {
        out.emitAttribute("mode", mode.getModeName().getDisplayName());
    }
    out.startSubsidiaryElement("select");
    select.explain(out);
}
/**
 * An ApplyTemplatesPackage is an object that encapsulates the sequence of nodes to be processed,
 * the mode, the parameters to be supplied, and the execution context. This object can be returned as a tail
 * call, so that the actual call is made from a lower point on the stack, allowing a tail-recursive
 * template to execute in a finite stack size
 */

private static class ApplyTemplatesPackage implements TailCall {

    private ValueRepresentation selectedNodes;
    private Mode mode;
    private ParameterSet params;
    private ParameterSet tunnelParams;
    private XPathContextMajor evaluationContext;
    private int locationId;

    ApplyTemplatesPackage(ValueRepresentation selectedNodes, Mode mode, ParameterSet params, ParameterSet tunnelParams, XPathContextMajor context, int locationId)
    { 
        this.selectedNodes = selectedNodes;
        this.mode = mode;
        this.params = params;
        this.tunnelParams = tunnelParams;
        evaluationContext = context;
        this.locationId = locationId;
    }

    public TailCall processLeavingTail() throws XPathException {
        return applyTemplates( 
            Value.getIterator(selectedNodes),
            ...
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.
 */

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, \ref {StaticProperty.EXACTLY_ONE}
   */

  protected int computeCardinality() {
      return StaticProperty.EXACTLY_ONE;
  }

  /**
   * Copy an expression. This makes a deep copy.
   * @return the copy of the original expression
   */

  public Expression copy() {
      return new SimpleContentConstructor(select.copy(), separator.copy());
  }

  /**
   * Simplify an expression. This performs any static optimization (by rewriting the expression
   * as a different expression). The default implementation does nothing.
   * @return the simplified expression
   * @throws net.sf.saxon.trans.XPathException
   *          if an error is discovered during expression
   *          rewriting
   * @param visitor an expression visitor
   */

  public Expression simplify(ExpressionVisitor visitor) throws XPathException {
      select = visitor.simplify(select);
      if (select instanceof Literal && ((Literal)select).getValue() instanceof AtomicValue) {
          return select;
      }
      separator = visitor.simplify(separator);
      return this;
  }
public Expression typeCheck(ExpressionVisitor visitor, ItemType contextItemType) throws XPathException {
    select = visitor.typeCheck(select, contextItemType);
    separator = visitor.typeCheck(separator, contextItemType);
    if (!Cardinality.allowsMany(select.getCardinality())) {
        isSingleton = true;
    }
    final TypeHierarchy th = visitor.getConfiguration().getTypeHierarchy();
    if (select.getItemType(th).isAtomicType()) {
        isAtomic = true;
    }
    select.setFlattened(true);
    if (select instanceof Literal && separator instanceof Literal) {
        XPathContext c = visitor.getStaticContext().makeEarlyEvaluationContext();
        return new Literal(Value.asValue(evaluateItem(c)));
    }
    return this;
}

public Expression optimize(ExpressionVisitor visitor, ItemType contextItemType) throws XPathException {
    select = visitor.optimize(select, contextItemType);
    separator = visitor.optimize(separator, contextItemType);
    if (select instanceof Literal && separator instanceof Literal) {
        XPathContext c = visitor.getStaticContext().makeEarlyEvaluationContext();
        return Literal.makeLiteral(Value.asValue(evaluateItem(c)));
    }
    return this;
}

/**
 * Determine the data type of the expression, if possible. All expression return
 * sequences, in general; this method determines the type of the items within the
 * sequence, assuming that (a) this is known in advance, and (b) it is the same for
 * all items in the sequence.
 * <p/>
 * @return a value such as Type.STRING, Type.BOOLEAN, Type.NUMBER,
 * Type.NODE, or Type.ITEM (meaning not known at compile time)
 * @param th the type hierarchy cache
 */

public ItemType getItemType(TypeHierarchy th) {
    return BuiltInAtomicType.STRING;
}

/**
 * Diagnostic print of expression structure. The abstract expression tree
public void explain(ExpressionPresenter out) {
    out.startElement("simpleContentConstructor");
    select.explain(out);
    separator.explain(out);
    out.endElement();
}

/**
 * Get the immediate sub-expressions of this expression. Default implementation
 * returns a zero-length array, appropriate for an expression that has no
 * sub-expressions.
 * @return an iterator containing the sub-expressions of this expression
 */
public Iterator iterateSubExpressions() {
    return new PairIterator(select, separator);
}

/**
 * Replace one subexpression by a replacement subexpression
 * @param original the original subexpression
 * @param replacement the replacement subexpression
 * @return true if the original subexpression is found
 */
public boolean replaceSubExpression(Expression original, Expression replacement) {
    boolean found = false;
    if (select == original) {
        select = replacement;
        found = true;
    }
    if (separator == original) {
        separator = replacement;
        found = true;
    }
    return found;
}

/**
 * Offer promotion for this subexpression. The offer will be accepted if the subexpression
 * is not dependent on the factors (e.g. the context item) identified in the PromotionOffer.
 * By default the offer is not accepted - this is appropriate in the case of simple expressions

* such as constant values and variable references where promotion would give no performance
* advantage. This method is always called at compile time.
*
* @param offer details of the offer, for example the offer to move
*       expressions that don't depend on the context to an outer level in
*       the containing expression
* @return if the offer is not accepted, return this expression unchanged.
*       Otherwise return the result of rewriting the expression to promote
*       this subexpression
* @throws net.sf.saxon.trans.XPathException
*         if any error is detected
*/

public Expression promote(PromotionOffer offer) throws XPathException {
    Expression exp = offer.accept(this);
    if (exp!=null) {
        return exp;
    } else {
        select = doPromotion(select, offer);
        separator = doPromotion(separator, offer);
        return this;
    }
}

/**
 * Evaluate an expression as a single item. This always returns either a single Item or
 * null (denoting the empty sequence). No conversion is done. This method should not be
 * used unless the static type of the expression is a subtype of "item" or "item?": that is,
 * it should not be called if the expression may return a sequence. There is no guarantee that
 * this condition will be detected.
 *
 * @param context The context in which the expression is to be evaluated
 * @return the node or atomic value that results from evaluating the
 *         expression; or null to indicate that the result is an empty
 *         sequence
 * @throws net.sf.saxon.trans.XPathException
 *         if any dynamic error occurs evaluating the
 *         expression
 */

public Item evaluateItem(XPathContext context) throws XPathException {
    SequenceIterator iter;
    if (isSingleton) {
        // optimize for this case
        Item item = select.evaluateItem(context);
        if (item == null || item instanceof StringValue) {
            return item;
        } else if (item instanceof AtomicValue) {
            return this;
        }
    }
}
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;
    } else {
        prevText = false;
        SequenceIterator iter2 = item.getTypedValue();
        while (true) {
            Item item2 = iter2.next();
            if (item2 == null) {
                break;
            } else {
                prevText = false;
                separator.evaluateItem(context).getStringValueCS();
                if (!first) {
                    if (sep == null) {
                        sep = separator.evaluateItem(context).getStringValueCS();
                    }
                    sb.append(sep);
                    first = false;
                    sb.append(s);
                    prevText = true;
                } else {
                    first = false;
                    sb.append(item2.getStringValueCS());
                }
            }
        }
    }
    prevText = false;
    SequenceIterator iter2 = item.getTypedValue();
    while (true) {
        Item item2 = iter2.next();
        if (item2 == null) {
            break;
        } else {
            prevText = false;
            separator.evaluateItem(context).getStringValueCS();
            if (!first) {
                if (sep == null) {
                    sep = separator.evaluateItem(context).getStringValueCS();
                }
                sb.append(sep);
                first = false;
                sb.append(item2.getStringValueCS());
            } else {
                first = false;
                sb.append(item2.getStringValueCS());
            }
        }
    }
}
} else {
    if (!first) {
        if (sep == null) {
            sep = separator.evaluateItem(context).getStringValueCS();
        }
        sb.append(sep);
    }
    first = false;
    prevText = false;
    sb.append(item.getStringValueCS());
}
return StringValue.makeStringValue(sb.condense());

/**
 * An implementation of Expression must provide at least one of the methods evaluateItem(), iterate(), or
 * process().
 * This method indicates which of these methods is prefered.
 */

public int getImplementationMethod() {
    return Expression.EVALUATE_METHOD;
}

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//
package net.sf.saxon.instruct;

import net.sf.saxon.expr.Atomizer;
** This class implements the rules for an XQuery simple content constructor, which are used in constructing
* the string value of an attribute node, text node, comment node, etc, from the value of the select
* expression or the contained sequence constructor. These differ slightly from the XSLT rules implemented
* in the superclass - specifically, the sequence is simply atomized, whereas XSLT takes special steps to
* concatenate adjacent text nodes before inserting separators.
*/

public class QuerySimpleContentConstructor extends SimpleContentConstructor {

    boolean noNodeIfEmpty;

    public QuerySimpleContentConstructor(Expression select, Expression separator, boolean noNodeIfEmpty) {
        super(select, separator);
        this.noNodeIfEmpty = noNodeIfEmpty;
    }

    public boolean isNoNodeWhenEmpty() {
        return noNodeIfEmpty;
    }

    /**
     * Compute the cardinality of the result of the expression.
     * @return the cardinality, @link {StaticProperty.EXACTLY_ONE}
     */
    protected int computeCardinality() {
        if (noNodeIfEmpty) {
            return StaticProperty.ALLOWS_ZERO_OR_ONE;
        } else {
            return StaticProperty.EXACTLY_ONE;
        }
    }

    /**
     * Copy an expression. This makes a deep copy.
     * @return the copy of the original expression
     */

public Expression copy() {
    return new QuerySimpleContentConstructor(select.copy(), separator.copy(), noNodeIfEmpty);
}

/**
 * Expand the stylesheet elements subordinate to this one, returning the result
 * as a string. The expansion must not generate any element or attribute nodes.
 * @param context The dynamic context for the transformation
 */

public CharSequence expandChildren(XPathContext context) throws XPathException {
    Item item = select.evaluateItem(context);
    if (item==null) {
        return (noNodeIfEmpty ? null : "") ;
    } else {
        return item.getStringValueCS();
    }
}

/**
 * Evaluate an expression as a single item. This always returns either a single Item or
 * null (denoting the empty sequence). No conversion is done. This method should not be
 * used unless the static type of the expression is a subtype of "item" or "item?": that is,
 * it should not be called if the expression may return a sequence. There is no guarantee that
 * this condition will be detected.
 * @param context The context in which the expression is to be evaluated
 * @return the node or atomic value that results from evaluating the
 *         expression; or null to indicate that the result is an empty
 *         sequence
 * @throws net.sf.saxon.trans.XPathException
 *          if any dynamic error occurs evaluating the
 *          expression
 */

public Item evaluateItem(XPathContext context) throws XPathException {
    if (isSingleton && isAtomic) {
        // optimize for this case
        Item item = select.evaluateItem(context);
        if (item == null) {
            if (noNodeIfEmpty) {
                return null;
            } else {
                return StringValue.EMPTY_STRING;
            }
        }
    }
}
if (item instanceof StringValue) {
    return item;
} else {
    return ((AtomicValue)item).convert(BuiltInAtomicType.STRING, true, context).asAtomic();
}

SequenceIterator iter = select.iterate(context);
if (!isAtomic) {
    iter = Atomizer.getAtomizingIterator(iter);
}

FastStringBuffer sb = new FastStringBuffer(1024);
boolean first = true;
String sep = " ";
while (true) {
    Item item = iter.next();
    if (item==null) {
        break;
    }
    if (!first) {
        sb.append(sep);
    }
    first = false;
    sb.append(item.getStringValueCS());
}
if (first && noNodeIfEmpty) {
    return null;
}
return StringValue.makeStringValue(sb.condense());


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package net.sf.saxon.instruct;
import net.sf.saxon.Configuration;
import net.sf.saxon.pattern.Pattern;
import net.sf.saxon.expr.Expression;
import net.sf.saxon.expr.XPathContext;
import net.sf.saxon.expr.XPathContextMajor;
import net.sf.saxon.om.StructuredQName;
import net.sf.saxon.trace.Location;
import net.sf.saxon.trans.Rule;
import net.sf.saxon.trans.XPathException;
import net.sf.saxon.value.SequenceType;

/**
 * An xsl:template element in the style sheet.
 */

public class Template extends Procedure {

    // TODO: change the calling mechanism for named templates to use positional parameters
    // in the same way as functions. For templates that have both a match and a name attribute,
    // create a match template as a wrapper around the named template, resulting in separate
    // NamedTemplate and MatchTemplate classes. For named templates, perhaps compile into function
    // calls directly, the only difference being that context is retained.

    // The body of the template is represented by an expression,
    // which is responsible for any type checking that's needed.

    private Pattern matchPattern;
    private int precedence;
    private int minImportPrecedence;
    private StructuredQName templateName;
    private boolean hasRequiredParams;
    private boolean bodyIsTailCallReturner;
    private SequenceType requiredType;

    /**
     * Create a template
     */

    public Template () {
        setHostLanguage(Configuration.XSLT);
    }

    /**
     * Initialize the template
     */
public void init (StructuredQName templateName, int precedence, int minImportPrecedence) {
    this.templateName = templateName;
    this.precedence = precedence;
    this.minImportPrecedence = minImportPrecedence;
}

public void setMatchPattern(Pattern pattern) {
    matchPattern = pattern;
}

public Pattern getMatchPattern() {
    return matchPattern;
}

public void setBody(Expression body) {
    super.setBody(body);
    bodyIsTailCallReturner = (body instanceof TailCallReturner);
}

public StructuredQName getTemplateName() {
public StructuredQName getObjectName() {
    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 int getPrecedence() {
    return precedence;
}

/**
* Get the import precedence of the template
* @return the import precedence (a higher number means a higher precedence)
*/

public int getMinImportPrecedence() {
    return minImportPrecedence;
}

/**
* Set whether this template has one or more required parameters
* @param has true if the template has at least one required parameter
*/

public void setHasRequiredParams(boolean has) {
    hasRequiredParams = has;
}

/**
* Ask whether this template has one or more required parameters
* @return true if this template has at least one required parameter
*/

public boolean hasRequiredParams() {
    return hasRequiredParams;
Set the required type to be returned by this template
    * @param type the required type as defined in the "as" attribute on the xsl:template element
*/

public void setRequiredType(SequenceType type) {
    requiredType = type;
}

/**
 * Get the required type to be returned by this template
 * @return the required type as defined in the "as" attribute on the xsl:template element
*/

public SequenceType getRequiredType() {
    if (requiredType == null) {
        return SequenceType.ANY_SEQUENCE;
    } else {
        return requiredType;
    }
}

/**
 * Process the template, without returning any tail calls. This path is used by
 * xsl:apply-imports and xsl:next-match
 * @param context The dynamic context, giving access to the current node,
 * @param rule the template rule that caused this template to be invoked. When a template has
 * a match pattern defined as a union, there can be more than one Rule referring to the same template,
 * and further calls on next-match or apply-imports need to know which one in in force
 */

public void apply(XPathContext context, Rule rule) throws XPathException {
    TailCall tc = applyLeavingTail(context, rule);
    while (tc != null) {
        tc = tc.processLeavingTail();
    }
}

/**
 * Process this template, with the possibility of returning a tail call package if the template
 * contains any tail calls that are to be performed by the caller.
 * @param context the XPath dynamic context
 * @param rule the template rule that caused this template to be invoked. When a template has
 * a match pattern defined as a union, there can be more than one Rule referring to the same template,
 * and further calls on next-match or apply-imports need to know which one in in force
 * @return null if the template exited normally; but if it was a tail call, details of the call
 */
* that hasn't been made yet and needs to be made by the caller
*/

public TailCall applyLeavingTail(XPathContext context, Rule rule) throws XPathException {
    if (body==null) {
        // fast path for an empty template
        return null;
    }
    XPathContextMajor c2 = context.newContext();
    c2.setOriginatingConstructType(Location.TEMPLATE);
    c2.setCurrentTemplateRule(rule);

    if (bodyIsTailCallReturner) {
        return ((TailCallReturner)body).processLeavingTail(c2);
    } else {
        body.process(c2);
        return null;
    }
}

/**
 * Expand the template. Called when the template is invoked using xsl:call-template.
 * Invoking a template by this method does not change the current template.
 * @param context the XPath dynamic context
 * @return null if the template exited normally; but if it was a tail call, details of the call
 * that hasn't been made yet and needs to be made by the caller
 */

public TailCall expand(XPathContext context) throws XPathException {
    if (bodyIsTailCallReturner) {
        return ((TailCallReturner)body).processLeavingTail(context);
    } else if (body != null) {
        body.process(context);
    }
    return null;
}

/**
 * Get the type of construct. This will either be the fingerprint of a standard XSLT instruction name
 * (values in { @link net.sf.saxon.om.StandardNames}: all less than 1024)
 * or it will be a constant in class { @link net.sf.saxon.trace.Location}.
 */

public int getConstructType() {
    return Location.TEMPLATE;
}
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;
}
public int computeSpecialProperties() {
    return super.computeSpecialProperties() |
            StaticProperty.SINGLE_DOCUMENT_NODESET;
}

public abstract void localTypeCheck(ExpressionVisitor visitor, ItemType contextItemType) throws XPathException;

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;
}

class Q... extends Q... implements ADP... {
    public Q... optimize(ExpressionVisitor visitor, ItemType contextItemType) throws XPathException {
        if (select != null) {
            select = visitor.optimize(select, contextItemType);
            adoptChildExpression(select);
        }
        return this;
    }

    public Iterator iterateSubExpressions() {
        return new MonoIterator(select);
    }

    /**
     * Replace one subexpression by a replacement subexpression
     * @param original the original subexpression
     * @param replacement the replacement subexpression
     * @return true if the original subexpression is found
     */
    public boolean replaceSubExpression(Expression original, Expression replacement) {
        boolean found = false;
        if (select == original) {
            select = replacement;
            found = true;
        }
        return found;
    }

    /**
     * Expand the stylesheet elements subordinate to this one, returning the result
     * as a string. The expansion must not generate any element or attribute nodes.
     * @param context The dynamic context for the transformation
     * @return the value that will be used as the string value of the constructed node
     * @throws XPathException if any error occurs
     */
    public CharSequence expandChildren(XPathContext context) throws XPathException {
        Item item = select.evaluateItem(context);
        if (item==null) {
            return "";
        } else {
            return item.getStringValueCS();
        }
    }
}
/**
 * Evaluate as an expression. We rely on the fact that when these instructions
 * are generated by XQuery, there will always be a valueExpression to evaluate
 * the content
 */

public Item evaluateItem(XPathContext context) throws XPathException {
    String content = (select==null ?
                    "" :
                    select.evaluateAsString(context).toString());
    content = checkContent(content, context);
    final TypeHierarchy th = context.getConfiguration().getTypeHierarchy();
    Orphan o = new Orphan(context.getConfiguration());
    o.setNodeKind((short)getItemType(th).getPrimitiveType());
    o.setStringValue(content);
    o.setNameCode(evaluateNameCode(context));
    return o;
}

/**
 * Check the content of the node, and adjust it if necessary. The checks depend on the node kind.
 * @param data the supplied content
 * @param context the dynamic context
 * @return the original content, unless adjustments are needed
 * @throws XPathException if the content is invalid
 */

protected String checkContent(String data, XPathContext context) throws XPathException {
    return data;
}

/**
 * Run-time method to compute the name of the node being constructed. This is overridden
 * for nodes that have a name. The default implementation returns -1, which is suitable for
 * unnamed nodes such as comments
 * @param context the XPath dynamic evaluation context
 * @return the name pool nameCode identifying the name of the constructed node
 * @throws XPathException if any failure occurs
 */

public int evaluateNameCode(XPathContext context) throws XPathException {
    return -1;
}

public SequenceIterator iterate(XPathContext context) throws XPathException {
    return SingletonIterator.makeIterator(evaluateItem(context));
}
/**
 * Offer promotion for subexpressions. The offer will be accepted if the subexpression
 * is not dependent on the factors (e.g. the context item) identified in the PromotionOffer.
 * By default the offer is not accepted - this is appropriate in the case of simple expressions
 * such as constant values and variable references where promotion would give no performance
 * advantage. This method is always called at compile time.
 *
 * @param offer details of the offer, for example the offer to move
 *     expressions that don't depend on the context to an outer level in
 *     the containing expression
 * @exception XPathException if any error is detected
 */

protected void promoteInst(PromotionOffer offer) throws XPathException {
    if (select != null) {
        select = doPromotion(select, offer);
    }
    super.promoteInst(offer);
}

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;
/**
 * 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 { @link FeatureKeys#CONFIGURATION } 
* @param config the Saxon configuration
*/

```java
public void setConfiguration(Configuration config) {
    this.config = config;
}
```

```java
/**
 * Get the configuration. This can also be done using the JAXP method
 * getAttribute, with the attribute name { @link FeatureKeys#CONFIGURATION }
 * @return the Saxon configuration
 */

```java
public Configuration getConfiguration() {
    return config;
}
```

```java
/**
 * 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.
 */

```java
public Transformer newTransformer(Source source)
    throws TransformerConfigurationException {
    Templates templates = newTemplates(source);
    return templates.newTransformer();
}
```

```java
/**
 * 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
public Transformer newTransformer()
    throws TransformerConfigurationException {
    return new IdentityTransformer(config);
}

/**
* Process the Source into a Templates object, which is a
* a compiled representation of the source. This Templates object
* may then be used concurrently across multiple threads. Creating
* a Templates object allows the TransformerFactory to do detailed
* performance optimization of transformation instructions, without
* penalizing runtime transformation.
* 
* @param source An object that holds a URL, input stream, etc.
* 
* @return A Templates object capable of being used for transformation purposes,
* never null.
* 
* @exception TransformerConfigurationException May throw this during the parse when it
* is constructing the Templates object and fails.
* */

public Templates newTemplates(Source source)
    throws TransformerConfigurationException {
    CompilerInfo info = new CompilerInfo();
    info.setURIResolver(config.getURIResolver());
    info.setErrorListener(config.getErrorListener());
    info.setCompileWithTracing(config.isCompileWithTracing());
    PreparedStylesheet pss = new PreparedStylesheet(config, info);
    pss.prepare(source);
    return pss;
}

/**
* Process the Source into a Templates object, which is a
* a compiled representation of the source. This Templates object
* may then be used concurrently across multiple threads. Creating
* a Templates object allows the TransformerFactory to do detailed
* performance optimization of transformation instructions, without
* penalizing runtime transformation.
* 
* @param source An object that holds a URL, input stream, etc.
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 prefered templates will be used (i.e. alternate = no).
 * @param title The value of the title attribute to match. May be null.
 * @param charset The value of the charset attribute to match. May be null.
 *
 * @return A Source object suitable for passing to the TransformerFactory.
 *
 * @throws TransformerConfigurationException if any problems occur
 */

public Source getAssociatedStylesheet(
    Source source, String media, String title, String charset)
    throws TransformerConfigurationException {

    PIGrabber grabber = new PIGrabber();
    grabber.setFactory(config);
    grabber.setCriteria(media, title, charset);
    grabber.setBaseURI(source.getSystemId());
    grabber.setURIResolver(config.getURIResolver());
try {
    new Sender(config.makePipelineConfiguration()).send(source, grabber);
    // this parse will be aborted when the first start tag is found
} catch (XPathException err) {
    if (grabber.isTerminated()) {
        // do nothing
    } else {
        throw new TransformerConfigurationException(
            "Failed while looking for xml-stylesheet PI", err);
    }
}

try {
    Source[] sources = grabber.getAssociatedStylesheets();
    if (sources==null) {
        throw new TransformerConfigurationException(
            "No matching <?xml-stylesheet?> processing instruction found");
    }
    return compositeStylesheet(source.getSystemId(), sources);
} catch (TransformerException err) {
    if (err instanceof TransformerConfigurationException) {
        throw (TransformerConfigurationException)err;
    } else {
        throw new TransformerConfigurationException(err);
    }
}

/**
 * Process a series of stylesheet inputs, treating them in import or cascade
 * order.  This is mainly for support of the getAssociatedStylesheets
 * method, but may be useful for other purposes.
 * @param baseURI the base URI to be used for the synthesized composite stylesheet
 * @param sources An array of Source objects representing individual stylesheets.
 * @return A Source object representing a composite stylesheet.
 */

private Source compositeStylesheet(String baseURI, Source[] sources)
throws TransformerConfigurationException {

    if (sources.length == 1) {
        return sources[0];
    } else if (sources.length == 0) {
        throw new TransformerConfigurationException(
            "No stylesheets were supplied");
    }

}
// create a new top-level stylesheet that imports all the others
StringBuffer sb = new StringBuffer(250);
sb.append("<xsl:stylesheet version='1.0' ");
sb.append(" xmlns:xsl=" + NamespaceConstant.XSLT + "">;
for (int i=0; i<sources.length; i++) {
    sb.append("<xsl:import href='").append(sources[i].getSystemId()).append("'/>");
}
sb.append("</xsl:stylesheet>");
InputSource composite = new InputSource();
composite.setSystemId(baseURI);
composite.setCharacterStream(new StringReader(sb.toString()));
return new SAXSource(config.getSourceParser(), composite);
}

/**
* Set an object that is used by default during the transformation
* to resolve URIs used in xsl:import, or xsl:include.
* @param resolver An object that implements the URIResolver interface,
* or null.
*/
public void setURIResolver(URIResolver resolver) {
    config.setURIResolver(resolver);
}

/**
* Get the object that is used by default during the transformation
* to resolve URIs used in document(), xsl:import, or xsl:include.
* @return The URIResolver that was set with setURIResolver.
*/
public URIResolver getURIResolver() {
    return config.getURIResolver();
}

//= CONFIGURATION METHODS ==
private static final String FEATURE_SECURE_PROCESSING =
    //javax.xml.XMLConstants.FEATURE_SECURE_PROCESSING;
    "http://javax.xml.XMLConstants/feature/secure-processing";
    // Avoid reference to this JDK 1.5 constant

    /**
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.
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();
}
public TransformerHandler newTransformerHandler(Source 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);
}
/**
 * Get a TransformerHandler object that can process SAX
 * ContentHandler events into a Result. The transformation
 * is defined as an identity (or copy) transformation, for example
 * to copy a series of SAX parse events into a DOM tree.
 *
 * @return A non-null reference to a TransformerHandler, that may
 * be used as a ContentHandler for SAX parse events.
 *
 * @throws TransformerConfigurationException If for some reason the
 * TransformerHandler cannot be created.
 */

public TransformerHandler newTransformerHandler()  
  throws TransformerConfigurationException {
    Controller controller = new IdentityTransformer(config);
    return new IdentityTransformerHandler(controller);
  }

/**
 * Get a TemplatesHandler object that can process SAX
 * ContentHandler events into a Templates object.
 *
 * @return A non-null reference to a TransformerHandler, that may
 * be used as a ContentHandler for SAX parse events.
 *
 * @throws TransformerConfigurationException If for some reason the
 * TemplatesHandler cannot be created.
 */

public TemplatesHandler newTemplatesHandler()  
  throws TransformerConfigurationException {
    return new TemplatesHandlerImpl(config);
  }

/**
 * Create an XMLFilter that uses the given Source as the
 * transformation instructions.
 *
 * @param src The Source of the transformation instructions.
 *
 * @return An XMLFilter object, or null if this feature is not supported.
 *
 * @throws TransformerConfigurationException If for some reason the
 * XMLFilter cannot be created.
 */
public XMLFilter newXMLFilter(Source src)
throws TransformerConfigurationException {
    Templates tmpl = 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>
 * <p/>
 * Feature names are fully qualified {@link java.net.URI}s.
 * Implementations may define their own features.
 * An {@link javax.xml.transform.TransformerConfigurationException} is thrown if this
 * <code>TransformerFactory</code> or the
 * <code>Transformer</code>s or <code>Template</code>s it creates cannot support the feature.
 * It is possible for an <code>TransformerFactory</code> to expose a feature value but be unable to change its
 * state.
 * <p/>
 * <p>
 * All implementations are required to support the FEATURE_SECURE_PROCESSING feature.
 * When the feature is:
 * <ul>
 * <li>
 * <code>true</code>: the implementation will limit XML processing to conform to implementation limits
 * and behave in a secure fashion as defined by the implementation.
 * Examples include resolving user defined style sheets and functions.
 * If XML processing is limited for security reasons, it will be reported via a call to the registered
* { @link javax.xml.transform.ErrorListener#fatalError(javax.xml.transform.TransformerException exception)}. See { @link #setErrorListener(javax.xml.transform.ErrorListener listener)}. In the Saxon implementation,
* this option causes calls on extension functions and extensions instructions to be disabled, and also
* disables the use of xsl:result-document to write to secondary output destinations.
* </li>
* </il>
* </code>false</code>: the implementation will processing XML according to the XML specifications without
* regard to possible implementation limits.
* </li>
* </ul>

* @param name  Feature name.
* @param value Is feature state <code>true</code> or <code>false</code>.
* @throws javax.xml.transform.TransformerConfigurationException
*                              if this <code>TransformerFactory</code>
*                              or the <code>Transformer</code>s or <code>Template</code>s it creates cannot support this
feature.
* @throws NullPointerException If the <code>name</code> parameter is null.
*/

public void setFeature(String name, boolean value) throws TransformerConfigurationException {
if (name.equals(FEATURE_SECURE_PROCESSING)) {
    config.setAllowExternalFunctions(!value);
} else {
    throw new TransformerConfigurationException("Unsupported TransformerFactory feature: "+ name);
}
}

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//
package net.sf.saxon.expr;

import net.sf.saxon.Controller;
import net.sf.saxon.trace.ExpressionPresenter;
import net.sf.saxon.value.Value;
import net.sf.saxon.event.SequenceOutputter;
import net.sf.saxon.event.PipelineConfiguration;
import net.sf.saxon.om.*;
import net.sf.saxon.trans.XPathException;
import net.sf.saxon.type.ItemType;
import net.sf.saxon.type.Type;
import net.sf.saxon.type.TypeHierarchy;

import java.util.Arrays;
import java.util.Iterator;

/**
 * An abstract implementation of Expression designed to make it easy to implement new expressions,
 * in particular, expressions to support extension instructions.
 */

public abstract class SimpleExpression extends Expression {

    public static final Expression[] NO_ARGUMENTS = new Expression[0];

    protected Expression[] arguments = NO_ARGUMENTS;

    /**
     * Constructor
     */

    public SimpleExpression() {
    }

    /**
     * Set the immediate sub-expressions of this expression.
     * @param sub an array containing the sub-expressions of this expression
     */

    public void setArguments(Expression[] sub) {
        arguments = sub;
        for (int i=0; i<sub.length; i++) {
            adoptChildExpression(sub[i]);
        }
    }

    /**
     */
public Iterator iterateSubExpressions() {
    return Arrays.asList(arguments).iterator();
}

/**
* Replace one subexpression by a replacement subexpression
* @param original the original subexpression
* @param replacement the replacement subexpression
* @return true if the original subexpression is found
*/
public boolean replaceSubExpression(Expression original, Expression replacement) {
    boolean found = false;
    for (int i=0; i<arguments.length; i++) {
        if (arguments[i] == original) {
            arguments[i] = replacement;
            found = true;
        }
    }
    return found;
}

/**
* Simplify the expression
* @return the simplified expression
* @param visitor an expression visitor
*/
public Expression simplify(ExpressionVisitor visitor) throws XPathException {
    for (int i = 0; i < arguments.length; i++) {
        if (arguments[i] != null) {
            arguments[i] = visitor.simplify(arguments[i]);
        }
    }
    return this;
}

public Expression typeCheck(ExpressionVisitor visitor, ItemType contextItemType) throws XPathException {
    for (int i = 0; i < arguments.length; i++) {
        if (arguments[i] != null) {
            arguments[i] = visitor.typeCheck(arguments[i], contextItemType);
        }
    }
}
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 & Expression.EVALUATE_METHOD) != 0) {
        // this indicates an error in the user-written extension code
        throw new AssertionError("evaluateItem() is not implemented in the subclass " + this.getClass());
    } else if ((m & Expression.ITERATE_METHOD) != 0) {
        return iterate(context).next();
    } else {
        Controller controller = context.getController();
        XPathContext c2 = context.newMinorContext();
        c2.setOrigin(this);
        SequenceOutputter seq = controller.allocateSequenceOutputter(1);
        PipelineConfiguration pipe = controller.makePipelineConfiguration();
        pipe.setHostLanguage(getContainer().getHostLanguage());
        seq.setPipelineConfiguration(pipe);
        c2.setTemporaryReceiver(seq);
        process(c2);
        Item item = seq.getFirstItem();
        seq.reset();
        return item;
    }
}

/**
 * Return an Iterator to iterate over the values of a sequence. The value of every
 * expression can be regarded as a sequence, so this method is supported for all
 * expressions. This default implementation handles iteration for expressions that
 * return singleton values: for non-singleton expressions, the subclass must
 * provide its own implementation.
 *
 * @exception XPathException if any dynamic error occurs evaluating the
 * expression
 * @param context supplies the context for evaluation
 * @return a SequenceIterator that can be used to iterate over the result
 * of the expression
 */

public SequenceIterator iterate(XPathContext context) throws XPathException {
    int m = getImplementationMethod();
    if ((m & Expression.EVALUATE_METHOD) != 0) {
        Item item = evaluateItem(context);
        if (item==null) {
            return EmptyIterator.getInstance();
        }
    } else {
    }
}

public Item evaluateItem(XPathContext context) throws XPathException {
    int m = getImplementationMethod();
    if ((m & Expression.EVALUATE_METHOD) != 0) {
        Item item = evaluateItem(context);
        if (item==null) {
            return EmptyIterator.getInstance();
        }
    } else {
        Controller controller = context.getController();
        XPathContext c2 = context.newMinorContext();
        c2.setOrigin(this);
        SequenceOutputter seq = controller.allocateSequenceOutputter(1);
        PipelineConfiguration pipe = controller.makePipelineConfiguration();
        pipe.setHostLanguage(getContainer().getHostLanguage());
        seq.setPipelineConfiguration(pipe);
        c2.setTemporaryReceiver(seq);
        process(c2);
        Item item = seq.getFirstItem();
        seq.reset();
        return item;
    }
}

/*
 * Return an Iterator to iterate over the values of a sequence. The value of every
 * expression can be regarded as a sequence, so this method is supported for all
 * expressions. This default implementation handles iteration for expressions that
 * return singleton values: for non-singleton expressions, the subclass must
 * provide its own implementation.
 *
 * @exception XPathException if any dynamic error occurs evaluating the
 * expression
 * @param context supplies the context for evaluation
 * @return a SequenceIterator that can be used to iterate over the result
 * of the expression
 */

public SequenceIterator iterate(XPathContext context) throws XPathException {
    int m = getImplementationMethod();
    if ((m & Expression.EVALUATE_METHOD) != 0) {
        Item item = evaluateItem(context);
        if (item==null) {
            return EmptyIterator.getInstance();
        }
    } else {
    }
}
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;
} else {
    Controller controller = context.getController();
    XPathContext c2 = context.newMinorContext();
    c2.setOrigin(this);
    SequenceOutputter seq = controller.allocateSequenceOutputter(10);
    PipelineConfiguration pipe = controller.makePipelineConfiguration();
    pipe.setHostLanguage(getContainer().getHostLanguage());
    seq.setPipelineConfiguration(pipe);
    c2.setTemporaryReceiver(seq);
    process(c2);

    SequenceIterator result = Value.getIterator(seq.getSequence());
    seq.reset();
    return result;
}
}

/**
 * Process the instruction, without returning any tail calls
 * @param context The dynamic context, giving access to the current node,
 * the current variables, etc.
 */

public void process(XPathContext context) throws XPathException {
    int m = getImplementationMethod();
    if ((m & Expression.EVALUATE_METHOD) == 0) {
        SequenceIterator iter = iterate(context);
        while (true) {
            Item it = iter.next();
            if (it == null) break;
            context.getReceiver().append(it, locationId, NodeInfo.ALL_NAMESPACES);
        }
    } else {
        Item item = evaluateItem(context);
        context.getReceiver().append(item, locationId, NodeInfo.ALL_NAMESPACES);
    }
}

/**
 * Diagnostic print of expression structure. The abstract expression tree

public void explain(ExpressionPresenter destination) {
    destination.startElement("userExpression");
    destination.emitAttribute("class", getExpressionType());
    for (int i = 0; i < arguments.length; i++) {
        arguments[i].explain(destination);
    }
    destination.endElement();
}

/**
* Return a distinguishing name for the expression, for use in diagnostics.
* By default the class name is used.
* @return a distinguishing name for the expression (defaults to the name of the implementation class)
*/

public String getExpressionType() {
    return getClass().getName();
}

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package net.sf.saxon.xpath;
import net.sf.saxon.Configuration;
import net.sf.saxon.expr.*;
import net.sf.saxon.functions.NumberFn;
import net.sf.saxon.instruct.SlotManager;
import net.sf.saxon.instruct.Executable;
import net.sf.saxon.om.*;
import net.sf.saxon.pattern.NodeTest;
import net.sf.saxon.sort.AtomicComparer;
import net.sf.saxon.sort.SortKeyDefinition;
import net.sf.saxon.sort.SortKeyEvaluator;
import net.sf.saxon.sort.SortedIterator;
import net.sf.saxon.trans.XPathException;
import net.sf.saxon.value.*;
import org.xml.sax.InputSource;
import javax.xml.namespace.QName;
import javax.xml.transform.sax.SAXSource;
import javax.xml.xpath.XPathConstants;
import javax.xml.xpath.XPathExpression;
import javax.xml.xpath.XPathExpressionException;
import java.util.List;

/**
 * The JAXP XPathExpression interface represents a compiled XPath expression that can be repeatedly
 * evaluated. This class is Saxon's implementation of that interface. </p>
 * *
 * <p>The class also includes some methods retained from Saxon's original XPath API. When these methods
 * are used, the object contains the context node and other state, so it is not thread-safe.</p>
 * *
 * @author Michael H. Kay
 */

public class XPathExpressionImpl implements XPathExpression, SortKeyEvaluator {

private Configuration config;
private Executable executable;
private Expression expression;
private Expression atomizer;
private NodeInfo contextNode;
private SlotManager stackFrameMap;
private XPathExpressionImpl sortKey = null;

/**
 * The constructor is protected, to ensure that instances can only be
 * created using the createExpression() method of XPathEvaluator
 * @param exp the compiled expression
 * @param exec the executable
 */

protected XPathExpressionImpl(Expression exp, Executable exec) {
    expression = exp;
    executable = exec;
    config = exec.getConfiguration();
}
/**
 * Define the number of slots needed for local variables within the expression.
 * This method is for internal use only.
 * @param map description of the stack frame
 */

protected void setStackFrameMap(SlotManager map) {
    stackFrameMap = map;
}

/**
 * Get the stack frame map. This holds information about the allocation of slots to variables.
 * This is needed by applications using low-level interfaces for evaluating the expression
 * @return a description of the stack frame
 */

public SlotManager getStackFrameMap() {
    return stackFrameMap;
}

/**
 * Get the Configuration under which this XPath expression was compiled
 * @return the Saxon configuration
 */

public Configuration getConfiguration() {
    return config;
}

/**
 * Define the sort order for the results of the expression. If this method is called, then
 * the list returned by a subsequent call on the evaluate() method will first be sorted.
 * @param sortKey an XPathExpression, which will be applied to each item in the sequence;
 * the result of this expression determines the ordering of the list returned by the evaluate()
 * method. The sortKey can be null, to clear a previous sort key. Note that the expression is
 * not automatically atomized; if it selects nodes, these should be explicitly converted to
 * atomic values by calling the string() or data() functions.
 * @deprecated since 9.0. This method is not present in the JAXP interface. The recommended
 * way to get a sorted result is to use XQuery instead of XPath.
 */

public void setSortKey(XPathExpressionImpl sortKey) {
    this.sortKey = sortKey;
}
* Set the context node for evaluating the expression. If this method is not called,
* the context node will be the root of the document to which the prepared expression is
* bound.
* @param node the context node
* @deprecated since 9.0. Using this method is not thread-safe. Use a method instead
* such as { @link #evaluate(Object, QName)} that allows the context node to be specified
* as a parameter to the call.
*/

public void setContextNode(NodeInfo node) {
    if (node==null) {
        throw new NullPointerException("Context node cannot be null");
    }
    if (node.getConfiguration() != config) {
        throw new IllegalArgumentException("Supplied node uses the wrong Configuration");
    }
    contextNode = node;
}

/**
 * Protected, undeprecated version of setContextNode() for use by deprecated paths within the package
 * (exists to avoid deprecation warnings when compiling Saxon)
 * @param node the context node
 */

protected void privatelySetContextNode(NodeInfo node) {
    if (node==null) {
        throw new NullPointerException("Context node cannot be null");
    }
    if (node.getConfiguration() != config) {
        throw new IllegalArgumentException("Supplied node uses the wrong Configuration");
    }
    contextNode = node;
}

/**
 * Execute a prepared XPath expression, returning the results as a List. The context
 * node must have been set previously using { @link #setContextNode(net.sf.saxon.om.NodeInfo)}.  
 * @return The results of the expression, as a List. The List represents the sequence
 * of items returned by the expression. Each item in the list will either be an instance
 * of net.sf.saxon.om.NodeInfo, representing a node, or a Java object representing an atomic value.
 * For the types of Java object that may be returned, see { @link #evaluate(Object, javax.xml.namespace.QName)} 
 * with the second argument set to NODESET.
 * @deprecated since 9.0. This method is not present in the JAXP interface. Either use
 * the JAXP methods such as { @link #evaluate(Object, QName)}, or use the Saxon XPath
 * API instead of JAXP.
 */
public List evaluate() throws XPathException {
    XPathContextMajor context = new XPathContextMajor(contextNode, executable);
    context.openStackFrame(stackFrameMap);
    SequenceIterator iter = expression.iterate(context);
    SequenceExtent extent = new SequenceExtent(iter);
    return (List)PJConverter.ToCollection.INSTANCE.convert(extent, List.class, context);
}

/**
 * Execute a prepared XPath expression, returning the first item in the result.
 * This is useful where it is known that the expression will only return
 * a singleton value (for example, a single node, or a boolean). The context node
 * must be set previously using {@link #setContextNode(net.sf.saxon.om.NodeInfo)}.  
 * @return The first item in the sequence returned by the expression. If the expression
 * returns an empty sequence, this method returns null. Otherwise, it returns the first
 * item in the result sequence, represented as a Java object using the same mapping as for
 * the evaluate() method
 * @deprecated since 9.0. This method is not present in the JAXP interface. Either use
 * the JAXP methods such as {@link #evaluate(Object, QName)}, or use the Saxon XPath
 * API instead of JAXP.
 */
public Object evaluateSingle() throws XPathException {
    XPathContextMajor context = new XPathContextMajor(contextNode, executable);
    context.openStackFrame(stackFrameMap);
    SequenceIterator iterator = expression.iterate(context);
    Item item = iterator.next();
    if (item == null) {
        return null;
    } else {
        return Value.convertToJava(item);
    }
}

/**
 * Get a raw iterator over the results of the expression. This returns results without
 * any conversion of the returned items to "native" Java classes. This method is intended
 * for use by applications that need to process the results of the expression using
 * internal Saxon interfaces.
 * @param contextItem the context item for evaluating the expression
 * @return an iterator over the results of the expression, with no conversion of returned items
 * @since 9.0
 */
public SequenceIterator rawIterator(Item contextItem) throws XPathException {
    XPathContextMajor context = new XPathContextMajor(contextItem, executable);
    return rawIterator(context);
}
private SequenceIterator rawIterator(XPathContextMajor context) throws XPathException {
    context.openStackFrame(stackFrameMap);
    SequenceIterator iterator = expression.iterate(context);
    if (sortKey != null) {
        Expression key = sortKey.expression;
        if (key.getItemType(config.getTypeHierarchy()) instanceof NodeTest) {
            sortKey.expression = new Atomizer(key, config);
        }
        SortKeyDefinition sk = new SortKeyDefinition();
        sk.setSortKey(sortKey.expression);
        AtomicComparer comp = sk.makeComparator(context);
        AtomicComparer[] comps = {comp};
        iterator = new SortedIterator(context, iterator, this, comps);
        ((SortedIterator)iterator).setHostLanguage(Configuration.XPATH);
    }
    return iterator;
}

/**
 * JAXP 1.3 evaluate() method
 * @param node The context node. This must use a representation of nodes that this implementation understands.
 * This may be a Saxon NodeInfo, or a node in one of the external object models supported, for example
 * DOM, DOM4J, JDOM, or XOM, provided the support module for that object model is loaded.
 * @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 align="top">STRING</td>
  <td>The result of applying the string() function to the actual result,
    as a Java String object</td></tr>
<tr><td align="top">NUMBER</td>
  <td>The result of applying the number() function to the actual result,
    as a Java Double object</td></tr>
<tr><td align="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 align="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>

@throws XPathExpressionException if evaluation of the expression fails or if the
  result cannot be converted to the requested type.
*/

public Object evaluate(Object node, QName qName) throws XPathExpressionException {
  NodeInfo contextNode = this.contextNode;
  if (node != null) {
    if (node instanceof SingletonNode) {
      node = ((SingletonNode)node).getNode();
    }
    if (node instanceof NodeInfo) {
      if (!((NodeInfo)node).getConfiguration().isCompatible(config)) {
        throw new XPathExpressionException(
            "Supplied node must be built using the same or a compatible Configuration");
      }
      contextNode = ((NodeInfo)node);
    } else {
      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());
      }
    }
  }
  return val;
}
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 == 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());
        }
    }
    SequenceIterator iter = expression.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());
    }
}
}
return first;
}  
throw new XPathExpressionException("Expression result is not a node");
} else if (qName.equals(XPathConstants.NODESET)) {
  //SequenceIterator iter = expression.iterate(context);
  SequenceIterator iter = rawIterator(context);
  SequenceExtent extent = new SequenceExtent(iter);
  PJConverter converter = PJConverter.allocateNodeListCreator(config, node);
  return converter.convert(extent, Object.class, context);
} else {
  throw new IllegalArgumentException("qName: Unknown type for expected result");
}
} catch (XPathException e) {
  throw new XPathExpressionException(e);
}

/**
 * Evaluate the expression to return a string value
 * @param node the initial context node. This must be either an instance of NodeInfo or a node
 * recognized by a known external object model.
 * <p><b>Contrary to the interface specification, Saxon does not supply an empty</b></p>
 * 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.)
 * @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");
  } 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);
}
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.
 * @return the result of the evaluation, converted to a String
 * @throws XPathExpressionException in the event of an XPath dynamic error
 * @throws NullPointerException If inputSource is null.
 */
public String evaluate(InputSource inputSource) throws XPathExpressionException {
    if (inputSource == null) {
        throw new NullPointerException("inputSource");
    }
    try {
        NodeInfo doc = config.buildDocument(new SAXSource(inputSource));
        return (String)evaluate(doc, XPathConstants.STRING);
    } catch (XPathException e) {
        throw new XPathExpressionException(e);
    }
}

/**
 * Callback for evaluating the sort keys. For internal use only.
 */
public Item evaluateSortKey(int n, XPathContext c) throws XPathException {
    return sortKey.getInternalExpression().evaluateItem(c);
}

/**
 * Low-level method to get the internal Saxon expression object. This exposes a wide range of
 * internal methods that may be needed by specialized applications, and allows greater control
 * over the dynamic context for evaluating the expression.
 * @return the underlying Saxon expression object.
 */
public Expression getInternalExpression() {
    return expression;
}

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// The Initial Developer of the Original Code is
// Michael H. Kay.
//
// Contributor(s):
//
package net.sf.saxon.xpath;

import net.sf.saxon.Configuration;
import net.sf.saxon.FeatureKeys;
import net.sf.saxon.om.NamespaceConstant;
import net.sf.saxon.om.Validation;
import javax.xml.XMLConstants;
import javax.xml.xpath.*;

/**
 * Saxon implementation of the JAXP 1.3 XPathFactory
 */
public class XPathFactoryImpl extends XPathFactory {

    private Configuration config;
    private XPathVariableResolver variableResolver;
    private XPathFunctionResolver functionResolver;

    /**
     * Default constructor: this creates a Configuration as well as creating the XPathFactory. Any documents
     * accessed using this XPathFactory must be built using this same Configuration.
     */
    public XPathFactoryImpl() {
        
    }
/**
 * Constructor using a user-supplied Configuration.
 * This constructor is useful if the document to be queried already exists, as it allows the configuration
 * associated with the document to be used with this XPathFactory.
 * @param config the Saxon configuration
 */

public XPathFactoryImpl(Configuration config) {
    this.config = config;
}

protected Configuration makeConfiguration() {
    return new Configuration();
}

/**
 * Get the Configuration object used by this XPathFactory
 * @return the Saxon configuration
 */

public Configuration getConfiguration() {
    return config;
}

/**
 * Test whether a given object model is supported. Returns true if the object model
 * is the Saxon object model, DOM, JDOM, DOM4J, or XOM
 * @param model The URI identifying the object model.
 * @return true if the object model is one of the following (provided that the supporting
 * JAR file is available on the classpath)
 * { @link NamespaceConstant#OBJECT_MODEL_SAXON},
 * { @link XPathConstants#DOM_OBJECT_MODEL},
 * { @link NamespaceConstant#OBJECT_MODEL_JDOM}, or
 * { @link NamespaceConstant#OBJECT_MODEL_XOM}, or
 * { @link NamespaceConstant#OBJECT_MODEL_DOM4J}.
 * Saxon also allows user-defined external object models to be registered with the Configuration, and
 * this method will return true in respect of any such model.
 */

public boolean isObjectModelSupported(String model) {
    boolean debug = System.getProperty("jaxp.debug") != null;
    if (debug) {
        System.err.println("JAXP: Calling " + getClass().getName() + ".isObjectModelSupported(" + model + ")");
        System.err.println("JAXP: -- returning " + silentIsObjectModelSupported(model));
    }
    return false;
}
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.STRICT);
    } else {
        throw new XPathFactoryConfigurationException("Unknown feature: " + feature);
    }
}

/**
 * Get a feature of this XPath implementation. The only features currently
 * recognized are:
 * <ul>
 * <li> {@link #FEATURE_SECURE_PROCESSING} </li>
 * <li> {@link net.sf.saxon.FeatureKeys#SCHEMA_VALIDATION}: requests schema validation of source
 * documents. </li>
 * <ul>
 * @param feature a URI identifying the feature
 * @return true if the feature is on, false if it is off
 * @throws XPathFactoryConfigurationException if the feature name is not recognized
 */

public boolean getFeature(String feature) throws XPathFactoryConfigurationException {
    if (feature.equals(FEATURE_SECURE_PROCESSING)) {
        return !config.isAllowExternalFunctions();
    }
} else if (feature.equals(FeatureKeys.SCHEMA_VALIDATION)) {
    return config.getSchemaValidationMode() == Validation.STRICT;
} else {
    throw new XPathFactoryConfigurationException("Unknown feature: "+ feature);
}

/**
 * Set a resolver for XPath variables. This will be used to obtain the value of
 * any variable referenced in an XPath expression. The variable resolver must be allocated
 * before the expression is compiled, but it will only be called when the expression
 * is evaluated.
 * @param xPathVariableResolver The object used to resolve references to variables.
 */
public void setXPathVariableResolver(XPathVariableResolver xPathVariableResolver) {
    variableResolver = xPathVariableResolver;
}

/**
 * Set a resolver for XPath functions. This will be used to obtain an implementation
 * of any external function referenced in an XPath expression. This is not required for
 * system functions, Saxon extension functions, constructor functions named after types,
 * or extension functions bound using a namespace that maps to a Java class.
 * @param xPathFunctionResolver The object used to resolve references to external functions.
 */
public void setXPathFunctionResolver(XPathFunctionResolver xPathFunctionResolver) {
    functionResolver = xPathFunctionResolver;
}

/**
 * Create an XPath evaluator
 * @return an XPath object, which can be used to compile and execute XPath expressions.
 */
public XPath newXPath() {
    XPathEvaluator xpath = new XPathEvaluator(config);
    xpath.setXPathFunctionResolver(functionResolver);
    xpath.setXPathVariableResolver(variableResolver);
    return xpath;
}

private static String FEATURE_SECURE_PROCESSING = "http://javax.xml.XMLConstants/feature/secure-processing";
    // XMLConstants.FEATURE_SECURE_PROCESSING in JDK 1.5

//
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;

/**
 * Construct an Attribute node for the n'th attribute of a given element
 * @param element The element containing the relevant attribute
 * @param index The index position of the attribute starting at zero
 */
public AttributeImpl(ElementImpl element, int index) {
    parent = element;
    this.index = index;
    AttributeCollection atts = element.getAttributeList();
    this.nameCode = atts.getNameCode(index);
    this.value = atts.getValue(index);
    this.typeCode = atts.getTypeAnnotation(index);
}
/**
 * Get the name code, which enables the name to be located in the name pool
 */

public int getNameCode() {
    return nameCode;
}

/**
 * Get the type annotation of this node, if any
 */

public int getTypeAnnotation() {
    return typeCode;
}

/**
 * Determine whether this node has the is-id property
 * @return true if the node is an ID
 */

public boolean isId() {
    if (getFingerprint() == StandardNames.XML_ID) {
        return true;
    }
    TypeHierarchy th = getConfiguration().getTypeHierarchy();
    return th.isIdCode(typeCode);
}

/**
 * Determine whether this node has the is-idref property
 * @return true if the node is an IDREF or IDREFS element or attribute
 */

public boolean isIdref() {
    TypeHierarchy th = getConfiguration().getTypeHierarchy();
    return th.isIdrefsCode(typeCode);
}

/**
 * Determine whether the node has the is-nilled property
 * @return true if the node has the is-nilled property
 */

public boolean isNilled() {
    return false;
}
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;
public String getStringValue() {
    return value;
}

public NodeInfo getNextSibling() {
    return null;
}

public NodeInfo getPreviousSibling() {
    return null;
}

public NodeImpl getPreviousInDocument() {
    return (NodeImpl)getParent();
}

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 mut 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
    if (parent != null) {
        AttributeCollectionImpl atts = (AttributeCollectionImpl)((ElementImpl)parent).getAttributeList();
        atts.replaceAttribute(nameCode, stringValue);
    }
}

/**
 * Remove type information from this node (and its ancestors, recursively).
 * This method implements the upd:removeType() primitive defined in the XQuery Update specification
 */
public void removeTypeAnnotation() {
    typeCode = StandardNames.XS_UNTYPED_ATOMIC;
    if (parent != null) {
        AttributeCollectionImpl atts = (AttributeCollectionImpl)((ElementImpl)parent).getAttributeList();
        atts.setTypeAnnotation(nameCode, StandardNames.XS_UNTYPED_ATOMIC);
        parent.removeTypeAnnotation();
    }
}

/**
 * Set the type annotation on a node. This must only be called when the caller has verified (by validation)
 * that the node is a valid instance of the specified type. The call is ignored if the node is not an element
 * or attribute node.
 *
 * @param typeCode the type annotation (possibly including high bits set to indicate the isID, isIDREF, and
 *                 isNilled properties)
 */

public void setTypeAnnotation(int typeCode) {
    this.typeCode = typeCode;
    if (parent != null) {
        AttributeCollectionImpl atts = (AttributeCollectionImpl)((ElementImpl)parent).getAttributeList();
        atts.setTypeAnnotation(nameCode, typeCode);
    }
}

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//
package net.sf.saxon.tree;

import net.sf.saxon.Configuration;
import net.sf.saxon.trans.Err;
import net.sf.saxon.event.Builder;
import net.sf.saxon.om.*;
import net.sf.saxon.pattern.AnyNodeTest;
import net.sf.saxon.pattern.NameTest;
import net.sf.saxon.pattern.NodeTest;
import net.sf.saxon.trans.XPathException;
import net.sf.saxon.type.Type;
import net.sf.saxon.type.SchemaType;
import net.sf.saxon.value.UntypedAtomicValue;
import net.sf.saxon.value.Value;
import javax.xml.transform.SourceLocator;

/**
 * A node in the "linked" tree representing any kind of node except a namespace node.
 * Specific node kinds are represented by concrete subclasses.
 *
 * @author Michael H. Kay
 */

public abstract class NodeImpl
        implements MutableNodeInfo, FingerprintedNode, SiblingCountingNode, SourceLocator {

    protected ParentNodeImpl parent;
    protected int index;

    /**
     * Characteristic letters to identify each type of node, indexed using the node type
     * values. These are used as the initial letter of the result of generate-id()
     */

    public static final char[] NODE_LETTER =
            {'x', 'e', 'a', 't', 'x', 'x', 'x', 'p', 'c', 'r', 'x', 'x', 'x', 'n'};

    /**
     * Get the value of the item as a CharSequence. This is in some cases more efficient than
     * the version of the method that returns a String.
     */

    public CharSequence getStringValueCS() {
        return getStringValue();
    }

    /**
     */

}
* Get the type annotation of this node, if any
* @return the type annotation, as the integer name code of the type name
*/

public int getTypeAnnotation() {
    return StandardNames.XS_UNTYPED;
}

/**
 * Get the column number of the node.
 * The default implementation returns -1, meaning unknown
 */

public int getColumnNumber() {
    if (parent == null) {
        return -1;
    } else {
        return parent.getColumnNumber();
    }
}

/**
 * Get the public identifier of the document entity containing this node.
 * The default implementation returns null, meaning unknown
 */

public String getPublicId() {
    return null;
}

/**
 * Get the document number of the document containing this node. For a free-standing
 * orphan node, just return the hashcode.
 */

public int getDocumentNumber() {
    return getPhysicalRoot().getDocumentNumber();
}

/**
 * Get the index position of this node among its siblings (starting from 0)
 * @return 0 for the first child, 1 for the second child, etc.
 */

public int getSiblingPosition() {
    return index;
}
/**
 * Get the typed value of this node.
 * If there is no type annotation, we return the string value, as an instance
 * of xs:untypedAtomic
 */

public SequenceIterator getTypedValue() throws XPathException {
    int annotation = getTypeAnnotation();
    if ((annotation & NodeInfo.IS_DTD_TYPE) != 0) {
        annotation = StandardNames.XS_UNTYPED_ATOMIC;
    }
    annotation &= NamePool.FP_MASK;
    if (annotation == -1 || annotation == StandardNames.XS_UNTYPED_ATOMIC || annotation ==
        StandardNames.XS_UNTYPED) {
        return SingletonIterator.makeIterator(new UntypedAtomicValue(getStringValueCS()));
    } else {
        SchemaType stype = getConfiguration().getSchemaType(annotation);
        if (stype == null) {
            String typeName;
            try {
                typeName = getNamePool().getDisplayName(annotation);
            } catch (Exception err) {
                typeName = annotation + "";
            }
            throw new XPathException("Unknown type annotation " +
                Err.wrap(typeName) + " in document instance");
        } else {
            return stype.getTypedValue(this);
        }
    }
}

/**
 * Get the typed value. The result of this method will always be consistent with the method
 * @link net.sf.saxon.om.Item#getTypedValue()}. However, this method is often more convenient and may be
 * more efficient, especially in the common case where the value is expected to be a singleton.
 * *
 * @return the typed value. If requireSingleton is set to true, the result will always be an
 *         AtomicValue. In other cases it may be a Value representing a sequence whose items are atomic
 *         values.
 * @since 8.5
 */

public Value atomize() throws XPathException {
    int annotation = getTypeAnnotation();
    if ((annotation & NodeInfo.IS_DTD_TYPE) != 0) {
        annotation = StandardNames.XS_UNTYPED_ATOMIC;
    }
if (annotation == -1 || annotation == StandardNames.XS_UNTYPED_ATOMIC || annotation == StandardNames.XS_UNTYPED) {
    return new UntypedAtomicValue(getStringValueCS());
} else {
    SchemaType stype = getConfiguration().getSchemaType(annotation);
    if (stype == null) {
        String typeName = getNamePool().getDisplayName(annotation);
        throw new XPathException("Unknown type annotation "+
                Err.wrap(typeName) + " in document instance");
    } else {
        return stype.atomize(this);
    }
}

/**
 * Set the system ID of this node. This method is provided so that a NodeInfo
 * implements the javax.xml.transform.Source interface, allowing a node to be
 * used directly as the Source of a transformation
 */
public void setSystemId(String uri) {
    // overridden in DocumentImpl and ElementImpl
    getParent().setSystemId(uri);
}

/**
 * Determine whether this is the same node as another node
 *
 * @return true if this Node object and the supplied Node object represent the
 *         same node in the tree.
 */
public boolean isSameNodeInfo(NodeInfo other) {
    // default implementation: differs for attribute and namespace nodes
    return this == other;
}

/**
 * The equals() method compares nodes for identity. It is defined to give the same result
 * as isSameNodeInfo().
 *
 * @param other the node to be compared with this node
 *
 * @return true if this NodeInfo object and the supplied NodeInfo object represent
 *         the same node in the tree.
 */
public boolean equals(NodeInfo other) {
    // default implementation: differs for attribute and namespace nodes
    return this == other;
}

/* 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 */

/**
 * 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.
 */
public boolean equals(NodeInfo other) {
    // default implementation: differs for attribute and namespace nodes
    return this == other;
}
* The equals() method has been defined because it is useful in contexts such as a Java Set or HashMap.

```java
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.
 */

```java
// 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
 */

```java
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.
 */

```java
public int getFingerprint() {
    int nameCode = getNameCode();
    if (nameCode == -1) {
        return -1;
    }
    return nameCode & 0xfffff;
}
```

/**
 * Get a character string that uniquely identifies this node within this document
 * (The calling code will prepend a document identifier)
 */
public void generateId(FastStringBuffer buffer) {
    long seq = getSequenceNumber();
    if (seq == -1L) {
        getPhysicalRoot().generateId(buffer);
        buffer.append(NODE_LETTER[getNodeKind()]);
        buffer.append(Long.toString(seq));
    } else {
        parent.generateId(buffer);
        buffer.append(NODE_LETTER[getNodeKind()]);
        buffer.append(Integer.toString(index));
        }
}

/**
 * Get the system ID for the node. Default implementation for child nodes.
 */

public String getSystemId() {
    return parent.getSystemId();
}

/**
 * Get the base URI for the node. Default implementation for child nodes.
 */

public String getBaseURI() {
    return parent.getBaseURI();
}

/**
 * Get the node sequence number (in document order). Sequence numbers are monotonic but not
 * consecutive. In the current implementation, parent nodes (elements and roots) have a zero
 * least-significant word, while namespaces, attributes, text nodes, comments, and PIs have
 * the top word the same as their owner and the bottom half reflecting their relative position.
 * This is the default implementation for child nodes.
 * For nodes added by XQUERY Update, the sequence number is -1L
 * @return the sequence number if there is one, or -1L otherwise.
 */

protected long getSequenceNumber() {
    NodeImpl prev = this;
    for (int i = 0; ; i++) {
        if (prev instanceof ParentNodeImpl) {
            long prevseq = prev.getSequenceNumber();
            return (prevseq == -1L ? prevseq : prevseq + 0x10000 + i);
            // note the 0x10000 is to leave room for namespace and attribute nodes.
            }
        prev = prev.getPreviousInDocument();
    }
public final int compareOrder(NodeInfo other) {
    if (other instanceof NamespaceIterator.NamespaceNodeImpl) {
        return 0 - other.compareOrder(this);
    }
    long a = getSequenceNumber();
    long b = ((NodeImpl)other).getSequenceNumber();
    if (a == -1L || b == -1L) {
        // Nodes added by XQuery Update do not have sequence numbers
        return Navigator.compareOrder(this, ((NodeImpl)other));
    }
    if (a < b) {
        return -1;
    }
    if (a > b) {
        return +1;
    }
    return 0;
}

/**
 * Get the configuration
 */

public Configuration getConfiguration() {
    return getPhysicalRoot().getConfiguration();
}

/**
 * Get the NamePool
 */

public NamePool getNamePool() {
    return getPhysicalRoot().getNamePool();
}
/**
 * Get the prefix part of the name of this node. This is the name before the ":" if any.
 *
 * @return the prefix part of the name. For an unnamed node, return an empty string.
 */

public String getPrefix() {
    int nameCode = getNameCode();
    if (nameCode == -1) {
        return "";
    }
    if (NamePool.getPrefixIndex(nameCode) == 0) {
        return "";
    }
    return getNamePool().getPrefix(nameCode);
}

/**
 * Get the URI part of the name of this node. This is the URI corresponding to the
 * prefix, or the URI of the default namespace if appropriate.
 *
 * @return The URI of the namespace of this node. For the null namespace, return an
 *         empty string. For an unnamed node, return the empty string.
 */

public String getURI() {
    int nameCode = getNameCode();
    if (nameCode == -1) {
        return "";
    }
    return getNamePool().getURI(nameCode);
}

/**
 * Get the display name of this node. For elements and attributes this is [prefix:]localname.
 * For unnamed nodes, it is an empty string.
 *
 * @return The display name of this node.
 *         For a node with no name, return an empty string.
 */

public String getDisplayName() {
    int nameCode = getNameCode();
    if (nameCode == -1) {
        return "";
    }
    return getNamePool().getDisplayName(nameCode);
}
/**
 * Get the local name of this node.
 *
 * @return The local name of this node.
 *         For a node with no name, return "".
 *
 */

public String getLocalPart() {
    int nameCode = getNameCode();
    if (nameCode == -1) {
        return "";
    }
    return getNamePool().getLocalName(nameCode);
}

/**
 * Get the line number of the node within its source document entity
 *
 */

public int getLineNumber() {
    return parent.getLineNumber();
}

/**
 * Find the parent node of this node.
 *
 * @return The Node object describing the containing element or root node.
 *
 */

public final NodeInfo getParent() {
    if (parent instanceof DocumentImpl && ((DocumentImpl)parent).isImaginary()) {
        return null;
    }
    return parent;
}

/**
 * Get the previous sibling of the node
 *
 * @return The previous sibling node. Returns null if the current node is the first
 *         child of its parent.
 *
 */

public NodeInfo getPreviousSibling() {

if (parent == null) {
    return null;
}
return parent.getNthChild(index - 1);

/**
 * Get next sibling node
 *
 * @return The next sibling node of the required type. Returns null if the current node is the last
 *         child of its parent.
 */

public NodeInfo getNextSibling() {
    if (parent == null) {
        return null;
    }
    return parent.getNthChild(index + 1);
}

/**
 * Get first child - default implementation used for leaf nodes
 *
 * @return null
 */

public NodeInfo getFirstChild() {
    return null;
}

/**
 * Get last child - default implementation used for leaf nodes
 *
 * @return null
 */

public NodeInfo getLastChild() {
    return null;
}

/**
 * Return an enumeration over the nodes reached by the given axis from this node
 *
 * @param axisNumber The axis to be iterated over
 * @return an AxisIterator that scans the nodes reached by the axis in turn.
 */
public AxisIterator iterateAxis(byte axisNumber) {
    // Fast path for child axis
    if (axisNumber == Axis.CHILD) {
        if (this instanceof ParentNodeImpl) {
            return ((ParentNodeImpl)this).enumerateChildren(null);
        } else {
            return EmptyIterator.getInstance();
        }
    } else {
        return iterateAxis(axisNumber, AnyNodeTest.getInstance());
    }
}

/**
* Return an enumeration over the nodes reached by the given axis from this node
*
* @param axisNumber The axis to be iterated over
* @param nodeTest   A pattern to be matched by the returned nodes
* @return an AxisIterator that scans the nodes reached by the axis in turn.
*/

public AxisIterator iterateAxis(byte axisNumber, NodeTest nodeTest) {
    switch (axisNumber) {
    case Axis.ANCESTOR:
        return new AncestorEnumeration(this, nodeTest, false);

    case Axis.ANCESTOR_OR_SELF:
        return new AncestorEnumeration(this, nodeTest, true);

    case Axis.ATTRIBUTE:
        if (getNodeKind() != Type.ELEMENT) {
            return EmptyIterator.getInstance();
        }

        return new AttributeEnumeration(this, nodeTest);

    case Axis.CHILD:
        if (this instanceof ParentNodeImpl) {
            return ((ParentNodeImpl)this).enumerateChildren(nodeTest);
        } else {
            return EmptyIterator.getInstance();
        }

    case Axis.DESCENDANT:
        if (getNodeKind() == Type.DOCUMENT &&
            nodeTest instanceof NameTest &&
            nodeTest.getPrimitiveType() == Type.ELEMENT) {
            return ((DocumentImpl)this).getAllElements(nodeTest.getFingerprint());
        }

        return new AncestorEnumeration(this, nodeTest, true);
    }
}
} 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

/**
 * 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;
public boolean isId() {
    return false;
}

public boolean isIdref() {
    return false;
}

public boolean isNilled() {
    return false;
}

public void setTypeAnnotation(int typeCode) {
    // no action
}

/*
 * Determine whether this node has the is-id property
 *
 * @return true if the node is an ID
 */

public boolean isId() {
    return false;
}

/*
 * Determine whether this node has the is-idref property
 *
 * @return true if the node is an IDREF or IDREFS element or attribute
 */

public boolean isIdref() {
    return false;
}

/*
 * Determine whether the node has the is-nilled property
 *
 * @return true if the node has the is-nilled property
 */

public boolean isNilled() {
    return false;
}

/*
 * Set the type annotation on a node. This must only be called when the caller has verified (by validation)
 * that the node is a valid instance of the specified type. The call is ignored if the node is not an element
 * or attribute node.
 *
 * @param typeCode the type annotation (possibly including high bits set to indicate the isID, isIDREF, and
 *                 isNilled properties)
 */

public void setTypeAnnotation(int typeCode) {
    // no action
}

/*
 * Delete this node (that is, detach it from its parent)
public void delete() {
    // Overridden for attribute nodes
    if (parent != null) {
        parent.removeChild(this);
        DocumentImpl newRoot = new DocumentImpl();
        newRoot.setConfiguration(parent.getConfiguration());
        newRoot.setImaginary(true);
        parent = newRoot;
    }
    index = -1;
}

/**
 * Remove an attribute from this element node
 *
 * <p>If this node is not an element, or if it has no attribute with the specified name,
 * this method takes no action.</p>
 *
 * @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>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
 */
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.
 * @param source  the nodes to be inserted
 * @param atStart true if the new nodes are to be inserted before existing children; false if they are
 * @param inherit true if the inserted nodes are to inherit the namespaces that are in-scope for their
 * new parent; false if such namespaces should be undeclared on the children
 */

public void insertChildren(NodeInfo[] source, boolean atStart, boolean inherit) {
    throw new UnsupportedOperationException("insertChildren() can only be applied to a parent node");
}

/**
 * Insert copies of a sequence of nodes as siblings of this node.
 * @param source  the nodes to be inserted
 * @param atStart true if the new nodes are to be inserted before existing children; false if they are
 * @param inherit true if the inserted nodes are to inherit the namespaces that are in-scope for their
 * new parent; false if such namespaces should be undeclared on the children
 */

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.

The supplied nodes must use the same data model implementation as the tree into which they will be inserted.

@param source the nodes to be inserted
@param before true if the new nodes are to be inserted before the target node; false if they are
@param inherit

public void insertSiblings(NodeInfo[] source, boolean before, boolean inherit) {
    if (parent == null) {
        throw new IllegalStateException("Cannot add siblings if there is no parent");
    }
    parent.insertChildrenAt(source, (before ? index : index+1), inherit);
}

/**
 * Remove type information from this node (and its ancestors, recursively).
 * This method implements the upd:removeType() primitive defined in the XQuery Update specification
 */

public void removeTypeAnnotation() {
    // no action
}

/**
 * Get a Builder suitable for building nodes that can be attached to this document.
 * @return a new Builder that constructs nodes using the same object model implementation as this one, suitable for attachment to this tree
 */

public Builder newBuilder() {
    return getPhysicalRoot().newBuilder();
}

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// Software distributed under the License is distributed on an "AS IS" basis, WITHOUT WARRANTY OF ANY KIND, either express or implied.
public class ElementImpl extends ParentNodeImpl implements NamespaceResolver {

    private static final AttributeCollectionImpl emptyAtts = new AttributeCollectionImpl(null);

    protected int nameCode;
    protected int typeCode;
    protected AttributeCollection attributeList; // this excludes namespace attributes
    protected int[] namespaceList = null;       // list of namespace codes

    /**
     * Construct an empty ElementImpl
     */

    public ElementImpl() {}
/**
 * Set the name code. Used when creating a dummy element in the Stripper
 * @param nameCode the integer name code representing the element name
 */

public void setNameCode(int nameCode) {
    this.nameCode = nameCode;
}

/**
 * Initialise a new ElementImpl with an element name
 * @param nameCode Integer representing the element name, with namespaces resolved
 * @param typeCode Integer representing the schema type of the element node
 * @param atts The attribute list: always null
 * @param parent The parent node
 * @param sequenceNumber Integer identifying this element within the document
 */

public void initialise(int nameCode, int typeCode, AttributeCollectionImpl atts, NodeInfo parent, int sequenceNumber) {
    this.nameCode = nameCode;
    this.typeCode = (typeCode == -1 ? StandardNames.XS_UNTYPED : typeCode);
    this.parent = (ParentNodeImpl)parent;
    sequence = sequenceNumber;
    attributeList = atts;
}

/**
 * Set location information for this node
 * @param systemId the base URI
 * @param line the line number if known
 * @param column the column number if known
 */

public void setLocation(String systemId, int line, int column) {
    DocumentImpl root = parent.getPhysicalRoot();
    root.setLineAndColumn(sequence, line, column);
    root.setSystemId(sequence, systemId);
}

/**
 * Set the system ID of this node. This method is provided so that a NodeInfo
 * implements the javax.xml.transform.Source interface, allowing a node to be
 * used directly as the Source of a transformation
 */

public void setSystemId(String uri) {
getPhysicalRoot().setSystemId(sequence, uri);
}

/**
 * Get the root node
 */

public NodeInfo getRoot() {
    ParentNodeImpl up = parent;
    if (up == null || (up instanceof DocumentImpl && ((DocumentImpl)up).isImaginary())) {
        return this;
    } else {
        return up.getRoot();
    }
}

/**
 * Get the root node, if it is a document node.
 *
 * @return the DocumentInfo representing the containing document. If this node is part of a tree that does not have a document node as its root, returns null.
 * @since 8.4
 */

public DocumentInfo getDocumentRoot() {
    NodeInfo root = getRoot();
    if (root instanceof DocumentInfo) {
        return (DocumentInfo)root;
    } else {
        return null;
    }
}

/**
 * Get the system ID of the entity containing this element node.
 */

public final String getSystemId() {
    DocumentImpl root = getPhysicalRoot();
    return (root == null ? null : root.getSystemId(sequence));
}

/**
 * Get the base URI of this element node. This will be the same as the System ID unless xml:base has been used.
 */
public String getBaseURI() {
    return Navigator.getBaseURI(this);
}

/**
 * Determine whether the node has the is-nilled property
 * @return true if the node has the is-nilled property
 */
public boolean isNilled() {
    return (typeCode & NodeInfo.IS_NILLED) != 0;
}

/**
 * Set the type annotation on a node. This must only be called when the caller has verified (by validation)
 * that the node is a valid instance of the specified type. The call is ignored if the node is not an element
 * or attribute node.
 * @param typeCode the type annotation (possibly including high bits set to indicate the isID, isIDREF, and
 *                 isNilled properties)
 */
public void setTypeAnnotation(int typeCode) {
    if (typeCode == -1) {
        typeCode = StandardNames.XS_UNTYPED;
    }
    this.typeCode = typeCode;
}

/**
 * Get the type annotation of this node, if any
 * @return the type annotation, as the integer name code of the type name
 */
public int getTypeAnnotation() {
    return typeCode & NamePool.FP_MASK;
}

/**
 * Set the line number of the element within its source document entity
 * @param line the line number
 * @param column the column number
 */
public void setLineAndColumn(int line, int column) {
    DocumentImpl root = getPhysicalRoot();

if (root != null) {
    root.setLineAndColumn(sequence, line, column);
}

/**
 * Get the line number of the node within its source document entity
 */

public int getLineNumber() {
    DocumentImpl root = getPhysicalRoot();
    if (root == null) {
        return -1;
    } else {
        return root.getLineNumber(sequence);
    }
}

/**
 * Get the line number of the node within its source document entity
 */

public int getColumnNumber() {
    DocumentImpl root = getPhysicalRoot();
    if (root == null) {
        return -1;
    } else {
        return root.getColumnNumber(sequence);
    }
}

/**
 * Get the nameCode of the node. This is used to locate the name in the NamePool
 */

public int getNameCode() {
    return nameCode;
}

/**
 * Get a character string that uniquely identifies this node
 * @param buffer to contain the generated ID
 */

public void generateId(FastStringBuffer buffer) {
    if (sequence >= 0) {
        getPhysicalRoot().generateId(buffer);
        buffer.append("e");
buffer.append(Integer.toString(sequence));
} else {
    parent.generateId(buffer);
    buffer.append("f");
    buffer.append(Integer.toString(index));
}

/**
 * Return the kind of node.
 * @return Type.ELEMENT
 */

public final int getNodeKind() {
    return Type.ELEMENT;
}

/**
 * Copy this node to a given outputter (supporting xsl:copy-of)
 * @param out The outputter
 * @param whichNamespaces indicates which namespaces should be output: all, none, or local
 * namespaces only (those not declared on the parent element)
 */

public void copy(Receiver out, int whichNamespaces, boolean copyAnnotations, int locationId) throws XPathException {
    int typeCode = (copyAnnotations ? getTypeAnnotation() : StandardNames.XS_UNTYPED);
    if (locationId == 0 && out instanceof CopyInformee) {
        ((CopyInformee)out).notifyElementNode(this);
    }
    out.startElement(getNameCode(), typeCode, locationId, 0);

    // output the namespaces
    switch (whichNamespaces) {
    case NodeInfo.NO_NAMESPACES:
        break;
    case NodeInfo.LOCAL_NAMESPACES:
        int[] localNamespaces = getDeclaredNamespaces(null);
        for (int i=0; i<localNamespaces.length; i++) {
            int ns = localNamespaces[i];
            if (ns == -1) {
                break;
            }
            out.namespace(ns, 0);
        }
        break;
    }
}

// output the namespaces

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;
            }
        }
    }
}
/**
 * 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));
        }
    }
}

/**
 * Remove an attribute from this element node
 * @param nameCode the name of the attribute to be removed
 */

public void removeAttribute(int nameCode) {

AttributeCollectionImpl atts = (AttributeCollectionImpl)getAttributeList();
int fp = nameCode & NamePool.FP_MASK;
int index = atts.getIndexByFingerprint(fp);
if (index >= 0 && atts.isId(index)) {
    DocumentImpl root = getPhysicalRoot();
    root.deregisterID(atts.getValue(index));
}
atts.removeAttribute(fp);

/**
 * Remove type information from this node (and its ancestors, recursively).
 * This method implements the upd:removeType() primitive defined in the XQuery Update specification
 *
 */
public void removeTypeAnnotation() {
    int t = getTypeAnnotation();
    if (t != StandardNames.XS_UNTYPED) {
        typeCode = StandardNames.XS_ANY_TYPE;
        parent.removeTypeAnnotation();
    }
}

/**
 * Set the namespace declarations for the element
 * @param namespaces the list of namespace codes
 * @param namespacesUsed the number of entries in the list that are used
 */
public void setNamespaceDeclarations(int[] namespaces, int namespacesUsed) {
    namespaceList = new int[namespacesUsed];
    System.arraycopy(namespaces, 0, namespaceList, 0, namespacesUsed);
}

/**
 * Get the namespace URI corresponding to a given prefix. Return null
 * if the prefix is not in scope.
 *
 * @param prefix the namespace prefix. May be the zero-length string, indicating
 * that there is no prefix. This indicates either the default namespace or the
 * null namespace, depending on the value of useDefault.
 * @param useDefault true if the default namespace is to be used when the
 * prefix is "". If false, the method returns "" when the prefix is "".
 * @return the uri for the namespace, or null if the prefix is not in scope.
 *         The "null namespace" is represented by the pseudo-URI "".
 */
```java
public String getURIForPrefix(String prefix, boolean useDefault) {
    if (prefix.equals("xml")) {
        return NamespaceConstant.XML;
    }
    if (prefix.length() == 0 && !useDefault) {
        return "";
    }
    NamePool pool = getNamePool();
    int prefixCode = pool.getCodeForPrefix(prefix);
    if (prefixCode == -1) {
        return null;
    }
    short uriCode = getURICodeForPrefixCode(prefixCode);
    if (uriCode == -1) {
        return null;
    }
    return pool.getURIFromURICode(uriCode);
}

/**
 * Get an iterator over all the prefixes declared in this namespace context. This will include
 * the default namespace (prefix="") and the XML namespace where appropriate
 */

public Iterator iteratePrefixes() {
    return new Iterator() {
        private NamePool pool = null;
        private IntIterator iter = NamespaceCodeIterator.iterateNamespaces(ElementImpl.this);
        public boolean hasNext() {
            return (pool == null || iter.hasNext());
        }
        public Object next() {
            if (pool == null) {
                pool = getNamePool();
                return "xml";
            } else {
                return pool.getPrefixFromNamespaceCode(iter.next());
            }
        }
        public void remove() {
            throw new UnsupportedOperationException("remove");
        }
    };

    /**
```
* Search the NamespaceList for a given prefix, returning the corresponding URI.
* @param prefix The prefix to be matched. To find the default namespace, supply ""
* @return The URI code corresponding to this namespace. If it is an unnamed default namespace,
* return Namespace.NULL_CODE.
* @throws net.sf.saxon.om.NamespaceException if the prefix has not been declared on this NamespaceList.
*/

public short getURICodeForPrefix(String prefix) throws NamespaceException {
    if (prefix.equals("xml")) return NamespaceConstant.XML_CODE;

    NamePool pool = getNamePool();
    int prefixCode = pool.getCodeForPrefix(prefix);
    if (prefixCode == -1) {
        throw new NamespaceException(prefix);
    }
    short uc = getURICodeForPrefixCode(prefixCode);
    if (uc == -1) {
        throw new NamespaceException(getNamePool().getPrefixFromNamespaceCode(prefixCode<<16));
    }
    return uc;
}

/**
* Get the URI bound to a given prefix in the in-scope namespaces of this element
* @param prefixCode the prefix code as a 16-bit integer
* @return the uri code as a 16-bit integer, or -1 if there is no in-scope binding for this prefix
*/

protected short getURICodeForPrefixCode(int prefixCode) {
    if (namespaceList!=null) {
        for (int i=0; i<namespaceList.length; i++) {
            if ((namespaceList[i]>>16) == prefixCode) {
                short u = (short)(namespaceList[i] & 0xffff);
                return (u==0 && prefixCode!=0 ? (short)-1 : u);
            }
        }
    }
    NodeInfo next = parent;
    if (next.getNodeKind()==Type.DOCUMENT) {
        // prefixCode==0 represents the empty namespace prefix ""
        if (prefixCode==0) {
            return NamespaceConstant.NULL_CODE;
        }
        return -1;
    } else {
        return ((ElementImpl)next).getURICodeForPrefixCode(prefixCode);
    }
}
/**
 * Search the NamespaceList for a given URI, returning the corresponding prefix.
 * @param uri The URI to be matched.
 * @return The prefix corresponding to this URI. If not found, return null. If there is
 * more than one prefix matching the URI, the first one found is returned. If the URI matches
 * the default namespace, return an empty string.
 */

public String getPrefixForURI(String uri) {
    if (uri.equals(NamespaceConstant.XML)) return "xml";

    NamePool pool = getNamePool();
    int uriCode = pool.getCodeForURI(uri);
    if (uriCode<0) return null;
    return getPrefixForURICode(uriCode);
}

private String getPrefixForURICode(int code) {
    if (namespaceList!=null) {
        for (int i=0; i<namespaceList.length; i++) {
            if ((namespaceList[i] & 0xffff) == code) {
                return getNamePool().getPrefixFromNamespaceCode(namespaceList[i]);
            }
        }
    }
    NodeInfo next = parent;
    if (next instanceof DocumentInfo) {
        return null;
    } else {
        return ((ElementImpl)next).getPrefixForURICode(code);
    }
}

/**
 * Get all namespace undeclarations and undeclarations defined on this element.
 *
 * @param buffer If this is non-null, and the result array fits in this buffer, then the result
 * may overwrite the contents of this array, to avoid the cost of allocating a new array on the heap.
 * @return An array of integers representing the namespace declarations and undeclarations present on
 * this element. For a node other than an element, return null. Otherwise, the returned array is a
 * sequence of namespace codes, whose meaning may be interpreted by reference to the name pool. The
 * top half word of each namespace code represents the prefix, the bottom half represents the URI.
 * If the bottom half is zero, then this is a namespace undeclaration rather than a declaration.
 * The XML namespace is never included in the list. If the supplied array is larger than required,
 * then the first unused entry will be set to -1.
 * <p/>
 * <p>For a node other than an element, the method returns null.</p>
 */
public int[] getDeclaredNamespaces(int[] buffer) {
    return (namespaceList == null ? IntArraySet.EMPTY_INT_ARRAY : namespaceList);
}

/**
* Get the list of in-scope namespaces for this element as an array of
* namespace codes. (Used by LiteralResultElement)
* @return the list of namespaces
*/

public int[] getInScopeNamespaceCodes() {
    return NamespaceIterator.getInScopeNamespaceCodes(this);
}

/**
* Ensure that a child element being inserted into a tree has the right namespace declarations.
* Redundant declarations should be removed. If the child is in the null namespace but the parent has a default
* namespace, xmlns="" should be added. If inherit is false, namespace undeclarations should be added for all
* namespaces that are declared on the parent but not on the child.
* @param inherit true if the child is to inherit the inscope namespaces of its new parent
*/

protected void fixupInsertedNamespaces(boolean inherit) {
    if (parent.getNodeKind() == Type.DOCUMENT) {
        return;
    }

    IntSet childNamespaces = new IntHashSet();
    if (namespaceList != null) {
        for (int i=0; i<namespaceList.length; i++) {
            childNamespaces.add(namespaceList[i]);
        }
    }

    NamespaceResolver inscope = new InscopeNamespaceResolver(parent);
    NamePool pool = getNamePool();

    // If the child is in the null namespace but the parent has a default namespace, xmlns="" should be added.
    if (getURI().length()==0 && inscope.getURIForPrefix("", true).length()!=0) {
        childNamespaces.add(0);
    }

    // Namespaces present on the parent but not on the child should be undeclared (if requested)
    if (!inherit) {
        }
Iterator it = inscope.iteratePrefixes();
while (it.hasNext()) {
    String prefix = (String)it.next();
    int prefixCode = pool.getCodeForPrefix(prefix)<<16;
    boolean found = false;
    if (namespaceList != null) {
        for (int i=0; i<namespaceList.length; i++) {
            if ((namespaceList[i] & 0xffff) == prefixCode) {
                found = true;
                break;
            }
        }
    }
    if (!found) {
        childNamespaces.add(prefixCode);
    }
}

// Redundant namespaces should be removed
if (namespaceList != null) {
    for (int i=0; i<namespaceList.length; i++) {
        int 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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//
package net.sf.saxon.tree;
import net.sf.saxon.event.Receiver;
import net.sf.saxon.trans.XPathException;
import net.sf.saxon.type.Type;
import net.sf.saxon.om.SequenceIterator;
import net.sf.saxon.om.SingletonIterator;
import net.sf.saxon.value.StringValue;
import net.sf.saxon.value.Value;

/**
 * CommentImpl is an implementation of a Comment node
 * @author Michael H. Kay
 */

final class CommentImpl extends NodeImpl {

    String comment;

    public CommentImpl(String content) {
        this.comment = content;
    }

    public final String getStringValue() {
        return comment;
    }

    /**
     * Get the typed value of this node.
     * Returns the string value, as an instance of xs:string
     */

    public SequenceIterator getTypedValue() {
        return SingletonIterator.makeIterator(new StringValue(getStringValue()));
    }

    /**
     * Get the typed value of this node.
     * Returns the string value, as an instance of xs:string
     */

    public Value atomize() {
        return new StringValue(getStringValue());
    }

    public final int getNodeKind() {
        return Type.COMMENT;
    }

    /**
     * Copy this node to a given outputter
     */
public void copy(Receiver out, int whichNamespaces, boolean copyAnnotations, int locationId) throws XPathException {
    out.comment(comment, locationId, 0);
}

/**
 * Replace the string-value of this node
 *
 * @param stringValue the new string value
 */
public void replaceStringValue(CharSequence stringValue) {
    comment = stringValue.toString();
}

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//
package net.sf.saxon.tree;
import net.sf.saxon.om.*;
import net.sf.saxon.pattern.AnyNodeTest;
import net.sf.saxon.pattern.NodeTest;
import net.sf.saxon.type.Type;

/**
 * ParentNodeImpl is an implementation of a non-leaf node (specifically, an Element node
 * or a Document node)
 * @author Michael H. Kay
 */
abstract class ParentNodeImpl extends NodeImpl {

    protected Object children = null;  // null for no children
        // a NodeInfo for a single child
        // a NodeInfo[] for >1 child

    protected int sequence;     // sequence number allocated during original tree creation.
                    // set to -1 for nodes added subsequently by XQuery update

    /*
    * Get the node sequence number (in document order). Sequence numbers are monotonic but not
    * consecutive. In the current implementation, parent nodes (elements and document nodes) have a zero
    * least-significant word, while namespaces, attributes, text nodes, comments, and PIs have
    * the top word the same as their owner and the bottom half reflecting their relative position.
    * For nodes added by XQUery Update, the sequence number is -1L
    * @return the sequence number if there is one, or -1L otherwise.
    */

    protected final long getSequenceNumber() {
        return (sequence == -1 ? -1L : ((long)sequence)<<32);
    }

    /*
    * Determine if the node has any children.
    */

    public final boolean hasChildNodes() {
        return (children!=null);
    }

    /*
    * Determine how many children the node has
    * @return the number of children of this parent node
    */

    public int getNumberOfChildren() {
        if (children == null) {
            return 0;
        } else if (children instanceof NodeImpl) {
            return 1;
        } else {
            return ((NodeInfo[])children).length;
        }
    }

    /*
    * Get an enumeration of the children of this node
    */
* @param test A NodeTest to be satisfied by the child nodes, or null
* if all child node are to be returned
* @return an iterator over the children of this node
* /

protected final AxisIterator enumerateChildren(NodeTest test) {
    if (children==null) {
        return EmptyIterator.getInstance();
    } else if (children instanceof NodeImpl) {
        NodeImpl child = (NodeImpl)children;
        if (test == null || test instanceof AnyNodeTest) {
            returnSingleNodeIterator.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;
    NodeImpl[] n = (NodeImpl[])children;
    return n[0];
}

/**
 * Get the last child node of the element
 * @return the last child of the element, or null if there are no children
 */

public final NodeInfo getLastChild() {
    if (children==null) return null;
    if (children instanceof NodeImpl) return (NodeImpl)children;
    NodeImpl[] n = (NodeImpl[])children;
    return n[n.length-1];
}
/**
 * Get the nth child node of the element (numbering from 0)
 * @param n identifies the required child
 * @return the last child of the element, or null if there is no n'th child
 */

protected final NodeImpl getNthChild(int n) {
    if (children==null) return null;
    if (children instanceof NodeImpl) {
        return (n==0 ? (NodeImpl)children : null);
    }
    NodeImpl[] nodes = (NodeImpl[])children;
    if (n<0 || n>=nodes.length) return null;
    return nodes[n];
}

/**
 * Remove a given child
 * @param child the child to be removed
 */

protected void removeChild(NodeImpl child) {
    if (children == null) {
        return;
    }
    if (children == child) {
        children = null;
        return;
    }
    NodeImpl[] nodes = (NodeImpl[])children;
    for (int i=0; i<nodes.length; i++) {
        if (nodes[i] == child) {
            if (nodes.length == 2) {
                children = nodes[1-i];
            } else {
                NodeImpl[] n2 = new NodeImpl[nodes.length - 1];
                if (i > 0) {
                    System.arraycopy(nodes, 0, n2, 0, i);
                }
                if (i < nodes.length - 1) {
                    System.arraycopy(nodes, i+1, n2, i, nodes.length-i-1);
                }
                children = cleanUpChildren(n2);
                break;
            }
        }
    }
}
/**
 * Tidy up the children of the node. Merge adjacent text nodes; remove zero-length text nodes;
 * reallocate index numbers to each of the children
 * @param children the existing children
 * @return the replacement array of children
 */

private NodeImpl[] cleanUpChildren(NodeImpl[] children) {
    boolean prevText = false;
    int j = 0;
    NodeImpl[] c2 = new NodeImpl[children.length];
    for (int i=0; i<children.length; i++) {
        NodeImpl node = children[i];
        if (node instanceof TextImpl) {
            if (prevText) {
                TextImpl prev = ((TextImpl)c2[j-1]);
                prev.replaceStringValue(prev.getStringValue() + node.getStringValue());
            } else if (node.getStringValue().length() > 0) {
                prevText = true;
                node.index = j;
                c2[j++] = node;
            }
        } else {
            node.index = j;
            c2[j++] = node;
            prevText = false;
        }
    }
    if (j == c2.length) {
        return c2;
    } else {
        NodeImpl[] c3 = new NodeImpl[j];
        System.arraycopy(c2, 0, c3, 0, j);
        return c3;
    }
}

/**
 * Return the string-value of the node, that is, the concatenation
 * of the character content of all descendent elements and text nodes.
 * @return the accumulated character content of the element, including descendant elements.
 */

public String getStringValue() {
    return getStringValueCS().toString();
}
public CharSequence getStringValueCS() {
    FastStringBuffer sb = null;

    NodeImpl next = (NodeImpl) getFirstChild();
    while (next != null) {
        if (next instanceof TextImpl) {
            if (sb == null) {
                sb = new FastStringBuffer(1024);
            }
            sb.append(next.getStringValueCS());
        }
        next = next.getNextInDocument(this);
    }
    if (sb == null) return "";
    return sb.condense();
}

/**
 * Supply an array to be used for the array of children. For system use only.
 * @param array the array to be used
 */
protected void useChildrenArray(NodeImpl[] array) {
    children = array;
}

/**
 * Add a child node to this node. For system use only. Note: normalizing adjacent text nodes
 * is the responsibility of the caller.
 * @param node the node to be added as a child of this node
 * @param index the position where the child is to be added
 */
public synchronized void addChild(NodeImpl node, int index) {
    NodeImpl[] c;
    if (children == null) {
        c = new NodeImpl[10];
    } else if (children instanceof NodeImpl) {
        c = new NodeImpl[10];
        c[0] = (NodeImpl) children;
    } else {
        c = (NodeImpl[]) children;
    }
    if (index >= c.length) {
        NodeImpl[] kids = new NodeImpl[c.length * 2];
        System.arraycopy(c, 0, kids, 0, c.length);
c = kids;
}
c[index] = node;
node.parent = this;
node.index = index;
children = c;
}

/**
 * Insert copies of a sequence of nodes as children of this node.
 * <p>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
 * new parent; false if such namespaces should be undeclared on the children
 */
public void insertChildren(NodeInfo[] source, boolean atStart, boolean inherit) {
    if (atStart) {
        insertChildrenAt(source, 0, inherit);
    } else {
        insertChildrenAt(source, getNumberOfChildren(), inherit);
    }
}

/**
 * Insert children before or after a given existing child
 * @param source the children to be inserted
 * @param index the position before which they are to be inserted: 0 indicates insertion before the
 * first child, 1 insertion before the second child, and so on.
 * @param inherit true if the inserted nodes are to inherit the namespaces that are in-scope for their
 * new parent; false if such namespaces should be undeclared on the children
 */
protected synchronized void insertChildrenAt(NodeInfo[] source, int index, boolean inherit) {
    if (source.length == 0) {
        return;
    }
    for (int i=0; i<source.length; i++) {
        NodeImpl child = (NodeImpl)source[i];
    }
}
child.parent = this;
if (child instanceof ElementImpl) {
    // If the child has no xmlns="xxx" declaration, then add an xmlns="" to prevent false inheritance
    // from the new parent
    ((ElementImpl)child).fixupInsertedNamespaces(inherit);
}
}
if (children == null) {
    if (source.length == 1) {
        children = source[0];
    } else {
        NodeImpl[] n2 = new NodeImpl[source.length];
        System.arraycopy(source, 0, n2, 0, source.length);
        children = n2;
    }
} else if (children instanceof NodeImpl) {
    int adjacent = (index==0 ? 0 : source.length - 1);
    if (children instanceof TextImpl && source[adjacent] instanceof TextImpl) {
        if (index == 0) {
            ((TextImpl)source[adjacent]).replaceStringValue((source[adjacent].getStringValue() + ((TextImpl)children).getStringValue());
        } else {
            ((TextImpl)source[adjacent]).replaceStringValue(((TextImpl)children).getStringValue() + source[adjacent].getStringValue());
        }
        NodeImpl[] n2 = new NodeImpl[source.length];
        System.arraycopy(source, 0, n2, 0, source.length);
        children = n2;
    } else {
        NodeImpl[] n2 = new NodeImpl[source.length + 1];
        if (index == 0) {
            System.arraycopy(source, 0, n2, 0, source.length);
            n2[source.length] = (NodeImpl)children;
        } else {
            n2[0] = (NodeImpl)children;
            System.arraycopy(source, 0, n2, 1, source.length);
        }
        children = cleanUpChildren(n2);
    }
} else {
    NodeImpl[] n0 = (NodeImpl[])children;
    NodeImpl[] n2 = new NodeImpl[n0.length + source.length];
    System.arraycopy(n0, 0, n2, 0, n2.length - index);
    System.arraycopy(source, 0, n2, index, source.length);
    System.arraycopy(n0, index, n2, index+source.length, n0.length - index);
    children = cleanUpChildren(n2);
}
/**
 * Replace child at a given index by new children
 * @param source the children to be inserted
 * @param index the position at which they are to be inserted: 0 indicates replacement of the
 * first child, replacement of the second child, and so on. The effect is undefined if index
 * is out of range
 * @param inherit set to true if the new child elements are to inherit the in-scope namespaces
 * of their new parent
 * @throws IllegalArgumentException if any of the replacement nodes is not an element, text,
 * comment, or processing instruction node
 */

protected synchronized void replaceChildrenAt(NodeInfo[] source, int index, boolean inherit) {
    if (children == null) {
        return;
    }
    for (int i=0; i<source.length; i++) {
        NodeImpl child = (NodeImpl)source[i];
        child.parent = this;
        int kind = child.getNodeKind();
        switch (kind) {
            case Type.ELEMENT:
                // If the child has no xmlns="xxx" declaration, then add an xmlns="" to prevent false inheritance
                // from the new parent
                ((ElementImpl)child).fixupInsertedNamespaces(inherit);
                break;
            case Type.COMMENT:
            case Type.TEXT:
            case Type.PROCESSING_INSTRUCTION:
                break;
            default:
                throw new IllegalArgumentException("Replacement child node is not an element, text, comment, or PI");
        }
    }
    if (children instanceof NodeImpl) {
        if (source.length == 0) {
            children = null;
        } else if (source.length == 1) {
            children = source[0];
        } else {
            NodeImpl[] n2 = new NodeImpl[source.length];
            System.arraycopy(source, 0, n2, 0, source.length);
            children = cleanUpChildren(n2);
        }
    } else {
NodeImpl[] n0 = (NodeImpl[])children;
NodeImpl[] n2 = new NodeImpl[n0.length + source.length - 1];
System.arraycopy(n0, 0, n2, 0, index);
System.arraycopy(source, 0, n2, index, source.length);
System.arraycopy(n0, index + 1, n2, index+source.length, n0.length - index - 1);
children = cleanUpChildren(n2);
}
}

/**
 * Compact the space used by this node
 * @param size the number of actual children
 */

public synchronized void compact(int size) {
    if (size==0) {
        children = null;
    } else if (size==1) {
        if (children instanceof NodeImpl[]) {
            children = ((NodeImpl[])children)[0];
        }
    } else {
        NodeImpl[] kids = new NodeImpl[size];
        System.arraycopy(children, 0, kids, 0, size);
        children = kids;
    }
}

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package net.sf.saxon.tree;
import net.sf.saxon.Configuration;
import net.sf.saxon.value.Whitespace;
import net.sf.saxon.event.Receiver;
import net.sf.saxon.event.Builder;
import net.sf.saxon.om.*;
import net.sf.saxon.trans.XPathException;
import net.sf.saxon.type.Type;
import java.util.ArrayList;
import java.util.HashMap;
import java.util.Iterator;
import java.util.Collections;

/**
 * A node in the XML parse tree representing the Document itself (or equivalently, the root
 * node of the Document).
 * <p>A DocumentImpl object may either represent a real document node, or it may represent an imaginary
 * container for a parentless element.</p>
 * @author Michael H. Kay
 */

public final class DocumentImpl extends ParentNodeImpl implements DocumentInfo {

    //private static int nextDocumentNumber = 0;

    private ElementImpl documentElement;

    private HashMap idTable = null;
    private int documentNumber;
    private String baseURI;
    private HashMap entityTable = null;
    private HashMap elementList = null;
    //private StringBuffer characterBuffer;
    private Configuration config;
    private LineNumberMap lineNumberMap;
    private SystemIdMap systemIdMap = new SystemIdMap();
    private boolean imaginary = false;

    /**
     * Create a DocumentImpl
     */

    public DocumentImpl() { }
parent = null;
}

/**
 * Set the Configuration that contains this document
 * @param config the Saxon configuration
 */

public void setConfiguration(Configuration config) {
    this.config = config;
documentNumber = config.getDocumentNumberAllocator().allocateDocumentNumber();
}

/**
 * Get the configuration previously set using setConfiguration
 * @return the Saxon configuration
 */

public Configuration getConfiguration() {
    return config;
}

/**
 * Get the name pool used for the names in this document
 */

public NamePool getNamePool() {
    return config.getNamePool();
}

/**
 * Get a Builder suitable for building nodes that can be attached to this document.
 * @return a new TreeBuilder
 */

public Builder newBuilder() {
    TreeBuilder builder = new TreeBuilder();
    builder.setAllocateSequenceNumbers(false);
    return builder;
}

/**
 * Set whether this is an imaginary document node
 * @param imaginary if true, this is an imaginary node - the tree is really rooted at the topmost element
 */

public void setImaginary(boolean imaginary) {
    this.imaginary = imaginary;
/**
 * Ask whether this is an imaginary document node
 * @return true if this is an imaginary node - the tree is really rooted at the topmost element
 */

public boolean isImaginary() {
    return imaginary;
}

/**
 * Get the unique document number
 */

public int getDocumentNumber() {
    return documentNumber;
}

/**
 * Set the top-level element of the document (variously called the root element or the
 * document element). Note that a DocumentImpl may represent the root of a result tree
 * fragment, in which case there is no document element.
 * @param e the top-level element
 */

void setDocumentElement(ElementImpl e) {
    documentElement = e;
}

/**
 * Copy the system ID and line number map from another document
 * (used when grafting a simplified stylesheet)
 * @param original the document whose system ID and line number maps are to be grafted
 * onto this tree
 */

public void graftLocationMap(DocumentImpl original) {
    systemIdMap = original.systemIdMap;
    lineNumberMap = original.lineNumberMap;
}

/**
 * Set the system id (base URI) of this node
 */

public void setSystemId(String uri) {
    if (uri==null) {

uri = "";
}
systemIdMap.setSystemId(sequence, uri);
}

/**
 * Get the system id of this root node
 */

public String getSystemId() {
    return systemIdMap.getSystemId(sequence);
}

/**
 * Set the base URI of this document node
 * @param uri the new base URI
 */

public void setBaseURI(String uri) {
    baseURI = uri;
}

/**
 * Get the base URI of this root node.
 * @return the base URI
 */

public String getBaseURI() {
    if (baseURI != null) {
        return baseURI;
    }
    return getSystemId();
}

/**
 * Set the system id of an element in the document
 * @param seq the sequence number of the element
 * @param uri the system identifier (base URI) of the element
 */

void setSystemId(int seq, String uri) {
    if (uri==null) {
        uri = "";
    }
    systemIdMap.setSystemId(seq, uri);
}
/**
 * Get the system id of an element in the document
 * @param seq the sequence number of the element
 * @return the systemId (base URI) of the element
 */

String getSystemId(int seq) {
    return systemIdMap.getSystemId(seq);
}

/**
 * Set line numbering on
 */

public void setLineNumbering() {
    lineNumberMap = new LineNumberMap();
    lineNumberMap.setLineAndColumn(sequence, 0, -1);
}

/**
 * Set the line number for an element. Ignored if line numbering is off.
 * @param sequence the sequence number of the element
 * @param line the line number of the element
 * @param column the column number of the element
 */

void setLineAndColumn(int sequence, int line, int column) {
    if (lineNumberMap != null && sequence >= 0) {
        lineNumberMap.setLineAndColumn(sequence, line, column);
    }
}

/**
 * Get the line number for an element.
 * @param sequence the sequence number of the element
 * @return the line number for an element. Return -1 if line numbering is off, or if
 * the element was added subsequent to document creation by use of XQuery update
 */

int getLineNumber(int sequence) {
    if (lineNumberMap != null && sequence >= 0) {
        return lineNumberMap.getLineNumber(sequence);
    }
    return -1;
}
int getColumnNumber(int sequence) {
    if (lineNumberMap != null && sequence >= 0) {
        return lineNumberMap.getColumnNumber(sequence);
    }
    return -1;
}

public int getLineNumber() {
    return 0;
}

public final int getNodeKind() {
    return Type.DOCUMENT;
}

public final NodeInfo getNextSibling() {
    return null;
}

public final NodeInfo getPreviousSibling() {
return null;
}

/**
 * Get the root (outermost) element.
 * @return the Element node for the outermost element of the document.
 */
public ElementImpl getDocumentElement() {
    return documentElement;
}

/**
 * Get the root node
 * @return the NodeInfo representing the root of this tree
 */
public NodeInfo getRoot() {
    return this;
}

/**
 * Get the root (document) node
 * @return the DocumentInfo representing this document
 */
public DocumentInfo getDocumentRoot() {
    return this;
}

/**
 * Get the physical root of the tree. This may be an imaginary document node: this method
 * should be used only when control information held at the physical root is required
 * @return the document node, which may be imaginary
 */
public DocumentImpl getPhysicalRoot() {
    return this;
}

/**
 * Get a character string that uniquely identifies this node
 * @param buffer a buffer into which will be placed a string based on the document number
 */
public void generateId(FastStringBuffer buffer) {
    buffer.append('d');
buffer.append(Integer.toString(documentNumber));
}

/**
 * Get a list of all elements with a given name fingerprint
 * @param fingerprint the fingerprint of the required element name
 * @return an iterator over all the elements with this name
 */
AxisIterator getAllElements(int fingerprint) {
    Integer elkey = new Integer(fingerprint);
    if (elementList==null) {
        elementList = new HashMap(500);
    }
    ArrayList list = (ArrayList)elementList.get(elkey);
    if (list==null) {
        list = new ArrayList(500);
        NodeImpl next = getNextInDocument(this);
        while (next!=null) {
            if (next.getNodeKind()==Type.ELEMENT &&
                next.getFingerprint() == fingerprint) {
                list.add(next);
            }
            next = next.getNextInDocument(this);
        }
    }
    elementList.put(elkey, list);
    return new NodeListIterator(list);
}

/**
 * Remove a node from any indexes when it is detached from the tree
 * @param node the node to be removed from all indexes
 */
public void deIndex(NodeImpl node) {
    // TODO: remove from xsl:key indexes (can exist in XQuery as a result of optimization!)
    if (node instanceof ElementImpl) {
        if (elementList!=null) {
            Integer elkey = new Integer(node.getFingerprint());
            ArrayList list = (ArrayList)elementList.get(elkey);
            if (list==null) {
                return;
            }
            list.remove(node);
        }
        if (node.isId()) {
            deregisterID(node.getStringValue());
        }
    }
}
else if (node instanceof AttributeImpl) {
  if (node.isId()) {
    deregisterID(node.getStringValue());
  }
}

/**
 * Index all the ID attributes. This is done the first time the id() function
 * is used on this document, or the first time that id() is called after a sequence of updates
 */

private void indexIDs() {
  if (idTable != null) {
    return; // ID's are already indexed
  }
  idTable = new HashMap(256);
  NameChecker checker = getConfiguration().getNameChecker();
  NodeImpl curr = this;
  NodeImpl root = curr;
  while (curr != null) {
    if (curr.getNodeKind() == Type.ELEMENT) {
      //noinspection ConstantConditions
      ElementImpl e = (ElementImpl) curr;
      AttributeCollection atts = e.getAttributeList();
      for (int i = 0; i < atts.getLength(); i++) {
        if (atts.isId(i) && checker.isValidNCName(Whitespace.trim(atts.getValue(i)))) {
          // don't index any invalid IDs - these can arise when using a non-validating parser
          registerID(e, Whitespace.trim(atts.getValue(i)));
        }
      }
    }
    curr = curr.getNextInDocument(root);
  }
}

/**
 * Register a unique element ID. Does nothing if there is already an element with that ID.
 * @param e The Element having a particular unique ID value
 * @param id The unique ID value
 */

protected void registerID(NodeInfo e, String id) {
  // the XPath spec (5.2.1) says ignore the second ID if it's not unique
  if (idTable == null) {
    idTable = new HashMap(256);
  }
}
Object old = idTable.get(id);
if (old==null) {
    idTable.put(id, e);
}

/**
 * Get the element with a given ID.
 * @param id The unique ID of the required element, previously registered using registerID()
 * @return The NodeInfo for the given ID if one has been registered, otherwise null.
 */

public NodeInfo selectID(String id) {
    if (idTable==null) indexIDs();
    return (NodeInfo)idTable.get(id);
}

/**
 * Remove the entry for a given ID (when nodes are deleted). Does nothing if the id value is not
 * present in the index.
 * @param id The id value
 */

protected void deregisterID(String id) {
    id = Whitespace.trim(id);
    if (idTable != null) {
        idTable.remove(id);
    }
}

/**
 * Set an unparsed entity URI associated with this document. For system use only, while
 * building the document.
 * @param name the entity name
 * @param uri the system identifier of the unparsed entity
 * @param publicId the public identifier of the unparsed entity
 */

void setUnparsedEntity(String name, String uri, String publicId) {
    // System.err.println("setUnparsedEntity( " + name + "," + uri + ")");
    if (entityTable==null) {
        entityTable = new HashMap(10);
    }
    String[] ids = new String[2];
    ids[0] = uri;
    ids[1] = publicId;
    entityTable.put(name, ids);
public Iterator getUnparsedEntityNames() {
    if (entityTable == null) {
        return Collections.EMPTY_LIST.iterator();
    } else {
        return entityTable.keySet().iterator();
    }
}

public String[] getUnparsedEntity(String name) {
    if (entityTable == null) {
        return null;
    }
    return (String[])entityTable.get(name);
}

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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// package net.sf.saxon.tree;
// import net.sf.saxon.event.Receiver;
// import net.sf.saxon.trans.XPathException;
// import net.sf.saxon.type.Type;
// import net.sf.saxon.om.SequenceIterator;
// import net.sf.saxon.om.SingletonIterator;
// import net.sf.saxon.value.StringValue;
// import net.sf.saxon.value.Value;

/**
 * ProcInstImpl is an implementation of ProcInstInfo used by the Propagator to construct
 * its trees.
 * @author Michael H. Kay
 */

class ProcInstImpl extends NodeImpl {

    String content;
    int nameCode;
    String systemId;
    int lineNumber = -1;
}
public ProcInstImpl(int nameCode, String content) {
    this.nameCode = nameCode;
    this.content = content;
}

/**
 * Get the nameCode of the node. This is used to locate the name in the NamePool
 */
public int getNameCode() {
    return nameCode;
}

public String getStringValue() {
    return content;
}

/**
 * Get the typed value of this node.
 * Returns the string value, as an instance of xs:string
 */
public SequenceIterator getTypedValue() {
    return SingletonIterator.makeIterator(new StringValue(getStringValue()));
}

/**
 * Get the typed value of this node.
 * Returns the string value, as an instance of xs:string
 */
public Value atomize() {
    return new StringValue(getStringValue());
}

public final int getNodeKind() {
    return Type.PROCESSING_INSTRUCTION;
}

/**
 * Set the system ID and line number
 * @param uri the system identifier
 * @param lineNumber the line number
 */
public void setLocation(String uri, int lineNumber) {
    this.systemId = uri;
    this.lineNumber = lineNumber;
}
/**
 * Get the system ID for the entity containing this node.
 * @return the system identifier
 */

public String getSystemId() {
    return systemId;
}

/**
 * Get the line number of the node within its source entity
 */

public int getLineNumber() {
    return lineNumber;
}

/**
 * Copy this node to a given outputter
 */

public void copy(Receiver out, int whichNamespaces, boolean copyAnnotations, int locationId) throws XPathException {
    out.processingInstruction(getLocalPart(), content, locationId, 0);
}

// DOM methods

/**
 * The target of this processing instruction. XML defines this as being
 * the first token following the markup that begins the processing
 * instruction.
 * @return the processing instruction name
 */

public String getTarget() {
    return getLocalPart();
}

/**
 * The content of this processing instruction. This is from the first non
 * white space character after the target to the character immediately
 * preceding the <code>?&gt;</code>.
 * @return the string value of the processing instruction node
 */
public String getData() {
    return content;
}

/**
 * Rename this node
 *
 * @param newNameCode the NamePool code of the new name
 */
public void rename(int newNameCode) {
    nameCode = newNameCode;
}

/**
 * Replace the string-value of this node
 *
 * @param stringValue the new string value
 */
public void replaceStringValue(CharSequence stringValue) {
    content = stringValue.toString();
}

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//
package net.sf.saxon.tree;
import net.sf.saxon.event.Receiver;
import net.sf.saxon.trans.XPathException;
import net.sf.saxon.type.Type;

/**
 * A node in the XML parse tree representing character content
 * @author Michael H. Kay
 */

final class TextImpl extends NodeImpl {

private String content;

public TextImpl(ParentNodeImpl parent, String content) {
    this.parent = parent;
    this.content = content;
}

/**
 * Return the character value of the node.
 * @return the string value of the node
 */

public String getStringValue() {
    return content;
}

/**
 * Return the type of node.
 * @return Type.TEXT
 */

public final int getNodeKind() {
    return Type.TEXT;
}

/**
 * Copy this node to a given outputter
 */

public void copy(Receiver out, int whichNamespaces, boolean copyAnnotations, int locationId) throws XPathException {
    out.characters(content, locationId, 0);
}

/**
 * Replace the string-value of this node
 *
 * @param stringValue the new string value
 */
public void replaceStringValue(CharSequence stringValue) {
    if (stringValue.length() == 0) {
        delete();
    } else {
        content = stringValue.toString();
    }
}

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//
package net.sf.saxon.s9api;
import net.sf.saxon.om.Item;
import net.sf.saxon.value.AtomicValue;

/**
 * The class XdmItem represents an item in a sequence, as defined by the XDM data model.
 * An item is either an atomic value or a node.
 *
 * <p>An item is a member of a sequence, but it can also be considered as a sequence
 * (of length one) in its own right. &lt;tt&gt;XdmItem&lt;/tt&gt; is a subtype of &lt;tt&gt;XdmValue&lt;/tt&gt; because every
 * Item in the XDM data model is also a value.&lt;/p&gt;
 *
 * <p>It cannot be assumed that every sequence of length one will be represented by
 * an &lt;tt&gt;XdmItem&lt;/tt&gt;. It is quite possible for an &lt;tt&gt;XdmValue&lt;/tt&gt; that is not an &lt;tt&gt;XdmItem&lt;/tt&gt; to hold
 * a singleton sequence.&lt;/p&gt;
 *
 * Saxon provides two concrete subclasses of &lt;code&gt;XdmItem&lt;/code&gt;, namely
 * {@link XdmNode} and {@link XdmAtomicValue}. Users must not attempt to create
public abstract class XdmItem extends XdmValue {

    // internal protected constructors

    protected XdmItem() { }

    protected XdmItem(Item item) {
        super(item);
    }

    // internal factory method to wrap an Item

    protected static XdmItem wrapItem(Item item) {
        return item == null ? null : (XdmItem)XdmValue.wrap(item);
    }

    /**
     * Factory method to construct an atomic value given its lexical representation and the
     * required item type
     *
     * @param value the lexical representation of the required value
     * @param type the item type of the required value
     * @return the constructed item
     * @throws SaxonApiException if the supplied string is not in the lexical space of the target type, or
     * if the target type is not atomic
     * @deprecated since 9.1. This factory method duplicates the constructor
     * @link XdmAtomicValue#XdmAtomicValue(String, ItemType) which should be used in preference
     */

    public static XdmItem newAtomicValue(String value, ItemType type) throws SaxonApiException {
        return new XdmAtomicValue(value, type);
    }

    /**
     * Get the string value of the item. For a node, this gets the string value
     * of the node. For an atomic value, it has the same effect as casting the value
     * to a string. In all cases the result is the same as applying the XPath string()
     * function.
     *
     * <p>For atomic values, the result is the same as the result of calling
     * <code>toString</code>. This is not the case for nodes, where <code>toString</code>
     * returns an XML serialization of the node.</p>
     * @return the result of converting the item to a string.
     */
public String getStringValue() {
    //noinspection RedundantCast
    return ((Item)getUnderlyingValue()).getStringValue();
}

/**
 * Determine whether the item is an atomic value or a node
 * @return true if the item is an atomic value, false if it is a node
 */

public boolean isAtomicValue() {
    return ((Item)getUnderlyingValue()) instanceof AtomicValue;
}

/**
 * Get the number of items in the sequence
 * @return the number of items in the value - always one
 */

@Override
public int size() {
    return 1;
}

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 * package net.sf.saxon.s9api;

 /**
 * WhitespaceStrippingPolicy is an enumeration class defining the possible policies for handling
 * whitespace text nodes in a source document.
 */
public enum WhitespaceStrippingPolicy {
    /**
     * The value NONE indicates that all whitespace text nodes are retained
     */
    NONE,
    /**
     * The value 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
}

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package net.sf.saxon.event;

import net.sf.saxon.trans.XPathException;
import net.sf.saxon.charcode.UnicodeCharacterSet;

import javax.xml.transform.OutputKeys;

/**
 * This class generates TEXT output
 * @author Michael H. Kay
 */
public class TEXTEmitter extends XMLEmitter {

/**
 * Start of the document.
 */

public void open () throws XPathException {}

protected void openDocument() throws XPathException {

    if (writer==null) {
        makeWriter();
    }
    if (characterSet==null) {
        characterSet = UnicodeCharacterSet.getInstance();
    }
    // Write a BOM if requested
    String encoding = outputProperties.getProperty(OutputKeys.ENCODING);
    if (encoding==null || encoding.equalsIgnoreCase("utf8")) {
        encoding = "UTF-8";
    }
    String byteOrderMark = outputProperties.getProperty(SaxonOutputKeys.BYTE_ORDER_MARK);

    if ("yes".equals(byteOrderMark) & & ("UTF-8".equalsIgnoreCase(encoding) ||
        "UTF-16LE".equalsIgnoreCase(encoding)) ||
        "UTF-16BE".equalsIgnoreCase(encoding))) {
        try {
            writer.write(\uFEFF);
            empty = false;
        } catch (java.io.IOException err) {
            // Might be an encoding exception; just ignore it
        }
    }

/**
 * Output the XML declaration. This implementation does nothing.
 */

public void writeDeclaration() throws XPathException {}

/**
 * Produce output using the current Writer. <BR>
 * Special characters are not escaped.
 * @param chars Character sequence to be output
 * @param properties bit fields holding special properties of the characters

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
}

/**
public void processingInstruction(String name, CharSequence value, int locationId, int properties) throws XPathException {} 

/**
 * Output a processing instruction. <br>
 * Does nothing with this output method.
 */

public void comment(CharSequence chars, int locationId, int properties) throws XPathException {} 

}
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>
*<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.<p>
*<p>
* 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.<p>
* */

public abstract class Emitter implements Result, Receiver
{
    protected PipelineConfiguration pipelineConfig;
    protected NamePool namePool;
    protected String systemId;
    protected StreamResult streamResult;
    protected Writer writer;
    protected OutputStream outputStream;
    protected Properties outputProperties;
    protected CharacterSet characterSet = null;
    protected boolean allCharactersEncodable = false;

    /**
    * Set the pipelineConfiguration
    */

    public void setPipelineConfiguration(PipelineConfiguration pipe) {
        pipelineConfig = pipe;
        namePool = pipe.getConfiguration().getNamePool();
    }

    /**
    * Get the pipeline configuration used for this document
    */

    public PipelineConfiguration getPipelineConfiguration() {
        return pipelineConfig;
    }
}
/**
 * Get the configuration used for this document
 * @return the configuration
 */

public Configuration getConfiguration() {
    return pipelineConfig.getConfiguration();
}

/**
 * Set the System ID
 * @param systemId the system identifier (=base URI)
 */

public void setSystemId(String systemId) {
    this.systemId = systemId;
}

/**
 * Get the System ID
 */

public String getSystemId() {
    return systemId;
}

/**
 * Set output properties
 * @param details the output serialization properties
 */

public void setOutputProperties(Properties details) throws XPathException {
    if (characterSet==null) {
        characterSet = CharacterSetFactory.getCharacterSet(details, getPipelineConfiguration());
        allCharactersEncodable = (characterSet instanceof UnicodeCharacterSet);
    }
    outputProperties = details;
}

/**
 * Get the output properties
 * @return the output serialization properties
 */

public Properties getOutputProperties() {
    return outputProperties;
}
/**
 * Set the StreamResult acting as the output destination of the Emitter
 * @param result the output destination
 */

public void setStreamResult(StreamResult result) throws XPathException {
    streamResult = result;
    if (systemId == null) {
        systemId = result.getSystemId();
    }
}

/**
 * Make a Writer for this Emitter to use, given a StreamResult.
 */

protected void makeWriter() throws XPathException {
    if (writer != null) {
        return;
    }
    if (streamResult == null) {
        throw new IllegalStateException("Emitter must have either a Writer or a StreamResult to write to");
    }
    writer = streamResult.getWriter();
    if (writer == null) {
        OutputStream os = streamResult.getOutputStream();
        if (os != null) {
            setOutputStream(os);
        }
    }
    if (writer == null) {
        String uriString = streamResult.getSystemId();
        if (uriString == null) {
            throw new XPathException("No system ID supplied for result file");
        }
        try {
            URI uri = new URI(uriString);
            if (!uri.isAbsolute()) {
                try {
                    uri = new File(uriString).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 {
    this.writer = writer;

    // If the writer uses a known encoding, change the encoding in the XML declaration
    // to match. Any encoding actually specified in xsl:output is ignored, because encoding
    // is being done by the user-supplied Writer, and not by Saxon itself.

    if (writer instanceof OutputStreamWriter && outputProperties != null) {
        String enc = ((OutputStreamWriter)writer).getEncoding();
        //System.err.println("Java encoding: " + enc);
        outputProperties.setProperty(OutputKeys.ENCODING, enc);
        characterSet = CharacterSetFactory.getCharacterSet(outputProperties, getPipelineConfiguration());
        allCharactersEncodable = (characterSet instanceof UnicodeCharacterSet);
    }
}
/**
 * Get the output writer
 * @return the Writer being used as an output destination, if any
 */
public Writer getWriter() {
    return writer;
}

/**
 * Set the output destination as a byte stream.
 * <p>Note that if a specific encoding (other than the default, UTF-8) is required, then
 * {@link #setOutputProperties(java.util.Properties)} must be called before calling
 * this method.</p>
 * @param stream the OutputStream being used as an output destination
 */

public void setOutputStream(OutputStream stream) throws XPathException {
    outputStream = stream;

    // If the user supplied an OutputStream, but the Emitter is written to
    // use a Writer (this is the most common case), then we create a Writer
    // to wrap the supplied OutputStream; the complications are to ensure that
    // the character encoding is correct.
    if (usesWriter()) {
        if (outputProperties == null) {
            outputProperties = new Properties();
        }

        String encoding = outputProperties.getProperty(OutputKeys.ENCODING);
        if (encoding == null) {
            encoding = "UTF8";
            allCharactersEncodable = true;
        } else if (encoding.equalsIgnoreCase("UTF-8")) {
            encoding = "UTF8";
            allCharactersEncodable = true;
        } else if (encoding.equalsIgnoreCase("UTF-16")) {
            encoding = "UTF16";
        }
    }

    String byteOrderMark = outputProperties.getProperty(SaxonOutputKeys.BYTE_ORDER_MARK);
    if ("no”.equals(byteOrderMark) && "UTF16”.equals(encoding)) {
        // Java always writes a bom for UTF-16, so if the user doesn't want one, use utf16-be
        encoding = "UTF-16BE";
    }

    if (characterSet instanceof PluggableCharacterSet) {
        encoding = ((PluggableCharacterSet)characterSet).getEncodingName();
    }
}
while (true) {
    try {
        String javaEncoding = encoding;
        if (encoding.equalsIgnoreCase("iso-646") || encoding.equalsIgnoreCase("iso646")) {
            javaEncoding = "US-ASCII";
        }
        writer = new BufferedWriter(
            new OutputStreamWriter(
                outputStream, javaEncoding));
        break;
    } catch (Exception err) {
        if (encoding.equalsIgnoreCase("UTF8")) {
            throw new XPathException("Failed to create a UTF8 output writer");
        }
        XPathException de = new XPathException("Encoding " + encoding + " is not supported: using UTF8");
        de.setErrorCode("SESU0007");
        try {
            getPipelineConfiguration().getErrorListener().error(de);
        } catch (TransformerException e) {
            throw XPathException.makeXPathException(e);
        }
        encoding = "UTF8";
        characterSet = UnicodeCharacterSet.getInstance();
        allCharactersEncodable = true;
        outputProperties.setProperty(OutputKeys.ENCODING, "UTF-8");
    }
}

/**
 * Get the output stream
 * @return the OutputStream being used as an output destination, if any
 */

public OutputStream getOutputStream() {
    return outputStream;
}

/**
 * Set unparsed entity URI. Needed to satisfy the Receiver interface, but not used,
 * because unparsed entities can occur only in input documents, not in output documents.
 * @param name the entity name
 * @param uri the entity system ID
 * @param publicId the entity public ID
 */
public void setUnparsedEntity(String name, String uri, String publicId) throws XPathException {}
private int inScript;
private boolean started = false;
private String elementName;
private short uriCode;

/**
 * Decode preferred representation
 * @param rep string containing preferred representation (native, entity, decimal, or hex)
 * @return integer code for the preferred representation
 */

private static int representationCode(String rep) {
    if (rep.equalsIgnoreCase("native")) return REP_NATIVE;
    if (rep.equalsIgnoreCase("entity")) return REP_ENTITY;
    if (rep.equalsIgnoreCase("decimal")) return REP_DECIMAL;
    if (rep.equalsIgnoreCase("hex")) return REP_HEX;
    return REP_ENTITY;
}

/**
 * Table of HTML tags that have no closing tag
 */

static HTMLTagHashSet emptyTags = new HTMLTagHashSet(31);

static {
    setEmptyTag("area");
    setEmptyTag("base");
    setEmptyTag("basefont");
    setEmptyTag("br");
    setEmptyTag("col");
    setEmptyTag("frame");
    setEmptyTag("hr");
    setEmptyTag("img");
    setEmptyTag("input");
    setEmptyTag("isindex");
    setEmptyTag("link");
    setEmptyTag("meta");
    setEmptyTag("param");
}

private static void setEmptyTag(String tag) {
    emptyTags.add(tag);
}

protected static boolean isEmptyTag(String tag) {
    return emptyTags.contains(tag);
}
/**
 * Table of boolean attributes
 */

// we use two HashMaps to avoid unnecessary string concatenations

private static HTMLTagHashSet booleanAttributes = new HTMLTagHashSet(31);
private static HTMLTagHashSet booleanCombinations = new HTMLTagHashSet(53);

static {
    setBooleanAttribute("area", "nohref");
    setBooleanAttribute("button", "disabled");
    setBooleanAttribute("dir", "compact");
    setBooleanAttribute("dl", "compact");
    setBooleanAttribute("frame", "noresize");
    setBooleanAttribute("hr", "noshade");
    setBooleanAttribute("img", "ismap");
    setBooleanAttribute("input", "checked");
    setBooleanAttribute("input", "disabled");
    setBooleanAttribute("input", "readonly");
    setBooleanAttribute("menu", "compact");
    setBooleanAttribute("object", "declare");
    setBooleanAttribute("ol", "compact");
    setBooleanAttribute("optgroup", "disabled");
    setBooleanAttribute("option", "selected");
    setBooleanAttribute("option", "disabled");
    setBooleanAttribute("script", "defer");
    setBooleanAttribute("select", "multiple");
    setBooleanAttribute("select", "disabled");
    setBooleanAttribute("td", "nowrap");
    setBooleanAttribute("textarea", "disabled");
    setBooleanAttribute("textarea", "readonly");
    setBooleanAttribute("th", "nowrap");
    setBooleanAttribute("ul", "compact");
}

private static void setBooleanAttribute(String element, String attribute) {
    booleanAttributes.add(attribute);
    booleanCombinations.add(element + '+' + attribute);
}

private static boolean isBooleanAttribute(String element, String attribute, String value) {
    return attribute.equalsIgnoreCase(value) &&
        booleanAttributes.contains(attribute) &&
        booleanCombinations.contains(element + '+' + attribute);
}
/**
 * Constructor
 */

public 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('﻿');
        } 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))

            writer.write(i); // write non-escaped characters
            writer.write('"');
            writer.write(chars, i, i - segstart);
            writer.write('"');
            segstart = i;
            i = segstart;
        } else {
            writer.write(chars, segstart, i - segstart);
            segstart = i;
        }
    }
}

/**
* 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))

            writer.write(i); // write non-escaped characters
            writer.write('"');
            writer.write(chars, i, i - segstart);
            writer.write('"');
            segstart = i;
            i = segstart;
        } else {
            writer.write(chars, segstart, i - segstart);
            segstart = i;
        }
    }
}
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('>'); // 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('&'); // escaped
      }
    }
  } else {
    if (c==')') {
      writer.write(')'); // not escaped if followed by ')
    }
  }
} else {
  writer.write(c); // use character as is
}
} else if (c==160) {  // always output NBSP as an entity reference
    writer.write("&nbsp;");
}

} else if (c>=127 && c<160) {
    // these control characters are illegal in HTML
    XPathException err = new XPathException("Illegal HTML character: decimal " + (int)c);
    err.setErrorCode("SERE0014");
    throw err;
}

} else if (c>=55296 && c<=56319) {  // handle surrogate pair

    // A surrogate pair is two consecutive Unicode characters. The first
    // is in the range D800 to DBFF, the second is in the range DC00 to DFFF.
    // To compute the numeric value of the character corresponding to a surrogate
    // pair, use this formula (all numbers are hex):
    // (FirstChar - D800) * 400 + (SecondChar - DC00) + 10000

    // we'll trust the data to be sound
    int charval = (((int)c - 55296) * 1024) + ((int)chars.charAt(i+1) - 56320) + 65536;
    outputCharacterReference(charval);
    i++;
}
} else if (characterSet.inCharset(c)) {
    switch(nonASCIIRepresentation) {
    case REP_NATIVE:
        writer.write(c);
        break;
    case REP_ENTITY:
        if (c>160 && c<=255) {
            // if character in iso-8859-1, use an entity reference
            writer.write('&);
            writer.write(latin1Entities[(int)c-160]);
            writer.write(');
            break;
        }
        // else fall through
    case REP_DECIMAL:
        preferHex = false;
        outputCharacterReference(c);
        break;
    case REP_HEX:
        preferHex = true;
        // fall through
    default:
        outputCharacterReference(c);
        break;
    }
}
else {
    // Character not present in encoding
    switch(excludedRepresentation) {
    case REP_ENTITY:
        if (c>160 && c<=255) {
            // if character in iso-8859-1, use an entity reference
            writer.write('&');
            writer.write(latin1Entities[(int)c-160]);
            writer.write(');
            break;
        }
        // else fall through
    case REP_NATIVE:
    case REP_DECIMAL:
        preferHex = false;
        outputCharacterReference(c);
        break;
    case REP_HEX:
preferHex = true;
// fall through
default:
    outputCharacterReference(c);
    break;
}
}

segstart = ++i;
}
}

/**
 * Output an element end tag.
 */
public void endElement() throws XPathException {
    String name = (String)elementStack.peek();
inScript--;
    if (inScript==0) {
        inScript = -1000000;
    }

    if (isEmptyTag(name) && uriCode==0) {
        // no end tag required
        elementStack.pop();
    } else {
        super.endElement();
    }
}

/**
 * Character data.
 */
public void characters (CharSequence chars, int locationId, int properties)
    throws XPathException {
    int options = properties;
    if (inScript>0) {
        options |= ReceiverOptions.DISABLE_ESCAPING;
    }
    super.characters(chars, locationId, options);
}

/**
 * Handle a processing instruction.
 */
public void processingInstruction(String target, CharSequence data, int locationId, int properties)
    throws XPathException
{
    if (empty) {
        openDocument();
    }
    for (int i=0; i<data.length(); i++) {
        if (data.charAt(i) == '>') {
            XPathException err = new XPathException("A processing instruction in HTML must not contain a > character");
            err.setErrorCode("SERE0015");
            throw err;
        }
    }
    try {
        writer.write("<?");
        writer.write(target);
        writer.write(' ');
        writeCharSequence(data);
        writer.write('>");
    } catch (java.io.IOException err) {
        throw new XPathException(err);
    }
}
private static final String[] latin1Entities = {
    "nbsp", // "&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", // "&brvbar;" -- broken bar = broken vertical bar,
    // U+00A6 ISOnum -->
    "sect", // "&sect;" -- section sign, U+00A7 ISOnum -->
    "uml", // "&uml;" -- diaeresis = spacing diaeresis,
    // U+00A8 ISOdia -->
    "copy", // "&copy;" -- copyright sign, U+00A9 ISOnum -->
    "ordf", // "&ordf;" -- feminine ordinal indicator, U+00AA ISOnum -->
    "laquo", // "&laquo;" -- left-pointing double angle quotation mark
    // = left pointing guillemet, U+00AB ISOnum -->
    "not", // "&not;" -- not sign, U+00AC ISOnum -->
    "shy", // "&shy;" -- soft hyphen = discretionary hyphen,
"reg", // ":&#174;" -- registered sign = registered trade mark sign,
    U+00AE ISOnum -->
"macr", // ":&#175;" -- macron = spacing macron = overline
    = APL overbar, U+00AF ISOdia -->
"deg", // ":&#176;" -- degree sign, U+00B0 ISOnum -->
"plusmn", // ":&#177;" -- plus-minus sign = plus-or-minus sign,
    U+00B1 ISOnum -->
"sup2", // ":&#178;" -- superscript two = superscript digit two
    = squared, U+00B2 ISOnum -->
"sup3", // ":&#179;" -- superscript three = superscript digit three
    = cubed, U+00B3 ISOnum -->
"acute", // ":&#180;" -- acute accent = spacing acute,
    U+00B4 ISOdia -->
"micro", // ":&#181;" -- micro sign, U+00B5 ISOnum -->
"para", // ":&#182;" -- pilcrow sign = paragraph sign,
    U+00B6 ISOnum -->
"middot", // ":&#183;" -- middle dot = Georgian comma
    = Greek middle dot, U+00B7 ISOnum -->
"cedil", // ":&#184;" -- cedilla = spacing cedilla, U+00B8 ISOdia -->
"sup1", // ":&#185;" -- superscript one = superscript digit one,
    U+00B9 ISOnum -->
"ordm", // ":&#186;" -- masculine ordinal indicator,
    U+00BA ISOnum -->
"raquo", // ":&#187;" -- right-pointing double angle quotation mark
    = right pointing guillemet, U+00BB ISOnum -->
"frac14", // ":&#188;" -- vulgar fraction one quarter
    = fraction one quarter, U+00BD ISOnum -->
"frac12", // ":&#189;" -- vulgar fraction one half
    = fraction one half, U+00BE ISOnum -->
"frac34", // ":&#190;" -- vulgar fraction three quarters
    = fraction three quarters, U+00BF ISOnum -->
"iquest", // ":&#191;" -- inverted question mark
    = turned question mark, U+00C0 ISOnum -->
"Agrave", // ":&#192;" -- 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 -->

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"AElig", // ";&#198;" -- latin capital ligature 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 -->
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package net.sf.saxon.event;
import net.sf.saxon.charcode.UnicodeCharacterSet;
import net.sf.saxon.charcode.UTF16;
import net.sf.saxon.om.FastStringBuffer;
import net.sf.saxon.sort.IntHashMap;
import net.sf.saxon.tinytree.CharSlice;
import net.sf.saxon.tinytree.CompressedWhitespace;

import net.sf.saxon.trans.XPathException;
import net.sf.saxon.value.Whitespace;

import javax.xml.transform.OutputKeys;
import java.util.Properties;
import java.util.Stack;

/**
 * XMLEmitter is an Emitter that generates XML output
 * to a specified destination.
 */

public class XMLEmitter extends Emitter {

// NOTE: we experimented with XMLUTF8Emitter which combines XML escaping and UTF8 encoding
// into a single loop. Scrapped it because we couldn't measure any benefits - but there
// ought to be, in theory. Perhaps we weren't buffering the writes carefully enough.

protected boolean empty = true;
protected boolean openStartTag = false;
protected boolean declarationIsWritten = false;
protected int elementCode;

protected boolean preferHex = false;
protected boolean undeclareNamespaces = false;
//private boolean warningIssued = false;

// The element stack holds the display names (lexical QNames) of elements that
// have been started but not finished. It is used to obtain the element name
// for the end tag.

protected Stack elementStack = new Stack();

// Getting a display name for a namecode can be expensive because it involves string
// concatenation, and more importantly, checking of the name against the encoding. So
// we keep a local cache of names we have seen before.

private IntHashMap nameLookup = new IntHashMap(100);

// For other names we use a hashtable. It

private boolean indenting = false;
private int indentSpaces = 3;
private String indentChars = "\n              ";
private int totalAttributeLength = 0;
private boolean requireWellFormed = false;

static boolean[] specialInText; // lookup table for special characters in text
static boolean[] specialInAtt;  // lookup table for special characters in attributes
// create look-up table for ASCII characters that need special treatment

static {
    specialInText = new boolean[128];
    for (int i=0; i<=31; i++) specialInText[i] = true; // allowed in XML 1.1 as character references
    for (int i=32; i<=127; i++) specialInText[i] = false;
    // note, 0 is used to switch escaping on and off for mapped characters
    specialInText['\n'] = false;
    specialInText['\t'] = false;
    specialInText['\r'] = true;
    specialInText['<'] = true;
    specialInText['>'] = true;
    specialInText['&'] = true;

    specialInAtt = new boolean[128];
    for (int i=0; i<=31; i++) specialInAtt[i] = true; // allowed in XML 1.1 as character references
    for (int i=32; i<=127; i++) specialInAtt[i] = false;
    specialInAtt[(char)0] = true;
    // used to switch escaping on and off for mapped characters
    specialInAtt['\n'] = true;
    specialInAtt['\t'] = true;
    specialInAtt['\r'] = true;
    specialInAtt['<'] = true;
    specialInAtt['>'] = true;
    specialInAtt['&'] = true;
    specialInAtt['"'] = true;
}

/**
 * Start of the event stream. Nothing is done at this stage: the opening of the output
 * file is deferred until some content is written to it.
 */

public void open() throws XPathException {}

/**
 * Start of a document node. Nothing is done at this stage: the opening of the output
 * file is deferred until some content is written to it.
 */

public void startDocument(int properties) throws XPathException {}
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);
        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();
    }
}
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) {
    writer.write(" PUBLIC " + publicId + ">
    } else {
        writer.write(" PUBLIC " + publicId + " systemId + "n");
    }
}
}
public void close() throws XPathException {
    // if nothing has been written, we should still create the file and write an XML declaration
    if (empty) {
        openDocument();
    }
    try {
        if (writer != null) {
            writer.flush();
        }
    } catch (java.io.IOException err) {
        throw new XPathException(err);
    }
}

/**
 * Start of an element. Output the start tag, escaping special characters.
 */

public void startElement (int nameCode, int typeCode, int locationId, int properties) throws XPathException 
{
    if (empty) {
        openDocument();
    } else if (requireWellFormed && elementStack.isEmpty()) {
        XPathException err = new XPathException("When 'standalone' or 'doctype-system' is specified, the
document must be well-formed; ") +
        "but this document contains more than one top-level element");
        err.setErrorCode("SEPM0004");
        throw err;
    }
    String displayName;

    // See if we've seen this name before
    displayName = getCachedName(nameCode);

    // Otherwise, look it up in the namepool and check that it's encodable
    if (displayName == null) {
        displayName = namePool.getDisplayName(nameCode);
        if (!allCharactersEncodable) 

            } catch (java.io.IOException err) { 
        throw new XPathException(err); 
    } 
} 

/**
 * End of the document.
 */

}
int badchar = testCharacters(displayName);
if (badchar!=0) {
    XPathException err = new XPathException("Element name contains a character (decimal + " +
    badchar + ") not available in the selected encoding");
    err.setErrorCode("SERE0008");
    throw err;
}
putCachedName(nameCode, displayName);
}

elementStack.push(displayName);
elementCode = nameCode;

try {
    if (empty) {
        String systemId = outputProperties.getProperty(OutputKeys.DOCTYPE_SYSTEM);
        String publicId = outputProperties.getProperty(OutputKeys.DOCTYPE_PUBLIC);
        if (systemId!=null) {
            requireWellFormed = true;
            writeDocType(displayName, systemId, publicId);
        }
        empty = false;
    }
    if (openStartTag) {
        closeStartTag();
    }
    writer.write('<');
    writer.write(displayName);
    openStartTag = true;
    totalAttributeLength = 0;
}
} catch (java.io.IOException err) {
    throw new XPathException(err);
}

public void namespace(int namespaceCode, int properties) throws XPathException {
    try {
        String nsprefix = namePool.getPrefixFromNamespaceCode(namespaceCode);
        String nsuri = namePool.getURIFromNamespaceCode(namespaceCode);

        int len = nsuri.length() + nsprefix.length() + 8;
        String sep = " ";
        if (indenting && (totalAttributeLength + len) > 80 && totalAttributeLength != 0) {
            sep = getAttributeIndentString();
        }
        totalAttributeLength += len;
    }
}
if (nsprefix.length() == 0) {
    writer.write(sep);
    writeAttribute(elementCode, "xmlns", nsuri, 0);
} else if (nsprefix.equals("xml")) {
    //return;
} else {
    int badchar = testCharacters(nsprefix);
    if (badchar!=0) {
        XPathException err = new XPathException("Namespace prefix contains a character (decimal + " +
                               badchar + ") not available in the selected encoding");
        err.setErrorCode("SERE0008");
        throw err;
    }
    if (undeclareNamespaces || nsuri.length() != 0) {
        writer.write(sep);
        writeAttribute(elementCode, "xmlns:" + nsprefix, nsuri, 0);
    }
}
} catch (java.io.IOException err) {
    throw new XPathException(err);
}

public void attribute(int nameCode, int typeCode, CharSequence value, int locationId, int properties)
throws XPathException {
    String displayName;

    // See if we've seen this name before
    displayName = getCachedName(nameCode);

    // Otherwise, look it up in the namepool and check that it's encodable
    if (displayName == null) {
        displayName = namePool.getDisplayName(nameCode);
        if (!allCharactersEncodable) {
            int badchar = testCharacters(displayName);
            if (badchar!=0) {
                XPathException err = new XPathException("Attribute name contains a character (decimal + " +
                               badchar + ") not available in the selected encoding");
                err.setErrorCode("SERE0008");
                throw err;
            }
        }
        putCachedName(nameCode, displayName);
    }

    final int len = displayName.length() + value.length() + 4;
    String sep = " ";
if (indenting && (totalAttributeLength + len) > 80 && totalAttributeLength != 0) {
    sep = getAttributeIndentString();
}

totalAttributeLength += len;

try {
    writer.write(sep);
    writeAttribute(
        elementCode,
        displayName,
        value,
        properties);
}

} catch (java.io.IOException err) {
    throw new XPathException(err);
}

private String getAttributeIndentString() {
    int indent = (elementStack.size()-1) * indentSpaces + ((String)elementStack.peek()).length() + 3;
    while (indent >= indentChars.length()) {
        indentChars += "                     ";
    }
    return indentChars.substring(0, indent);
}

public void startContent() throws XPathException {
    // don't add ">" to the start tag until we know whether the element has content
}

/**
 * Mark the end of the start tag
 * @throws XPathException if an IO exception occurs
 */

public void closeStartTag() throws XPathException {
    try {
        if (openStartTag) {
            writer.write('>
            openStartTag = false;
        }
    }

} catch (java.io.IOException err) {
    throw new XPathException(err);
}

/**
 * Close an empty element tag. (This is overridden in XHTMLEmitter).
 */
* @param displayName the name of the empty element
* @param nameCode the fingerprint of the name of the empty element
* @return the string used to close an empty element tag.
*/

protected String emptyElementTagCloser(String displayName, int nameCode) {
    return "/>";
}

/**
 * Write attribute name=value pair.
 * @param elCode The element name is not used in this version of the
 * method, but is used in the HTML subclass.
 * @param attname The attribute name, which has already been validated to ensure
 * it can be written in this encoding
 * @param value The value of the attribute
 * @param properties Any special properties of the attribute
 */

protected void writeAttribute(int elCode, String attname, CharSequence value, int properties) throws XPathException {
    try {
        String val = value.toString();
        writer.write(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);
        } else {
            writer.write("=");
            writeEscape(value, true);
            writer.write('"');
        }
    } catch (java.io.IOException err) {
        throw new XPathException(err);
    }
}
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;
}

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);
    }
}

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);
    }
}

/**
 * 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
 */

/**
 * End of an element.
 */

/**
 * 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);
                        }
                    }
                }
            }
        }
    }
}
// Using disable output escaping with characters
// that are not available in the target encoding
// The required action is to ignore d-o-e in respect of those characters that are
// not available in the encoding. This is slow...
final int len = chars.length();
for (int i=0; i<len; i++) {
    char c = chars.charAt(i);
    if (c != 0) {
        if (c > 127 && UTF16.isHighSurrogate(c)) {
            char[] pair = new char[2];
            pair[0] = c;
            pair[1] = chars.charAt(++i);
            int cc = UTF16.combinePair(c, pair[1]);
            if (!characterSet.inCharset(cc)) {
                writeEscape(new CharSlice(pair), false);
            } else {
                writeCharSequence(new CharSlice(pair));
            }
        } else {
            char[] ca = {c};
            if (!characterSet.inCharset(c)) {
                writeEscape(new CharSlice(ca), false);
            } else {
                writeCharSequence(new CharSlice(ca));
            }
        }
    }
}
} catch (java.io.IOException err) {
    throw new XPathException(err);
}

/**
 * Write a CharSequence (without any escaping of special characters): various implementations
 * @param s the character sequence to be written
 */

public void writeCharSequence(CharSequence s) throws java.io.IOException {
    if (s instanceof String) {
        writer.write((String)s);
    } else if (s instanceof CharSlice) {
        ((CharSlice)s).write(writer);
    }
}
} else if (s instanceof FastStringBuffer) {
    ((FastStringBuffer)s).write(writer);
} else if (s instanceof CompressedWhitespace) {
    ((CompressedWhitespace)s).write(writer);
} else {
    writer.write(s.toString());
}

/**
 * Handle a processing instruction.
 */

public void processingInstruction (String target, CharSequence data, int locationId, int properties)
    throws XPathException 
    {
    if (empty) {
        openDocument();
    }
    int x = testCharacters(target);
    if (x != 0) {
        XPathException err = new XPathException("Character in processing instruction name cannot be represented "+
            "in the selected encoding (code " + x + ")");
        err.setErrorCode("SERE0008");
        throw err;
    }
    x = testCharacters(data);
    if (x != 0) {
        XPathException err = new XPathException("Character in processing instruction data cannot be represented "
            +
            "in the selected encoding (code " + x + ")");
        err.setErrorCode("SERE0008");
        throw err;
    }
    try {
        if (openStartTag) {
            closeStartTag();
        }
        writer.write("<?" + target + (data.length()>0 ? ' ' + data.toString() : "") + "?>");
    } catch (java.io.IOException err) {
        throw new XPathException(err);
    }
}

/**
 * Write contents of array to current writer, after escaping special characters.
 * This method converts the XML special characters (such as < and &) into their
* predefined entities.
* @param chars The character sequence containing the string
* @param inAttribute Set to true if the text is in an attribute value
*/

protected void writeEscape(final CharSequence chars, final boolean inAttribute)
throws java.io.IOException, XPathException {
    int segstart = 0;
    boolean disabled = false;
    final boolean[] specialChars = (inAttribute ? specialInAtt : specialInText);

    if (chars instanceof CompressedWhitespace) {
        ((CompressedWhitespace)chars).writeEscape(specialChars, writer);
        return;
    }

    final int clength = chars.length();
    while (segstart < clength) {
        int i = segstart;
        // find a maximal sequence of "ordinary" characters
        while (i < clength) {
            final char c = chars.charAt(i);
            if (c < 127) {
                if (specialChars[c]) {
                    break;
                } else {
                    i++;
                }
            } else if (c < 160) {
                break;
            } else if (c == 0x2028) {
                break;
            } else if (UTF16.isHighSurrogate(c)) {
                break;
            } else if (!characterSet.inCharset(c)) {
                break;
            } else {
                i++;
            }
        }
        // if this was the whole string write it out and exit
        if (i >= clength) {
            if (segstart == 0) {
                writeCharSequence(chars);
            } else {
                writeCharSequence(chars.subSequence(segstart, i));
            }
        }
    }
}
return;
}

// otherwise write out this sequence
if (i > segstart) {
    writeCharSequence(chars.subSequence(segstart, i));
}

// examine the special character that interrupted the scan
final char c = chars.charAt(i);
if (c==0) {
    // used to switch escaping on and off
    disabled = !disabled;
} else if (disabled) {
    if (c > 127) {
        if (UTF16.isHighSurrogate(c)) {
            int cc = UTF16.combinePair(c, chars.charAt(i+1));
            if (characterSet.inCharset(cc)) {
                XPathException de = new XPathException("Character x" + Integer.toHexString(cc) + " is not available in the chosen encoding");
                de.setErrorCode("SERE0008");
                throw de;
            }
        } else if (!characterSet.inCharset(c)) {
            XPathException de = new XPathException("Character x" + Integer.toHexString((int)c) + " is not available in the chosen encoding");
            de.setErrorCode("SERE0008");
            throw de;
        }
    } else if (!characterSet.inCharset(c)) {
        XPathException de = new XPathException("Character x" + Integer.toHexString((int)c) + " is not available in the chosen encoding");
        de.setErrorCode("SERE0008");
        throw de;
    }
}
writer.write(c);
} else if (c>=127 & c<160) {
    // XML 1.1 requires these characters to be written as character references
    outputCharacterReference(c);
} else if (c>=160) {
    if (c==0x2028) {
        outputCharacterReference(c);
    } else if (UTF16.isHighSurrogate(c)) {
        char d = chars.charAt(i+1);
        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("&lt;");
} else if (c=='>') {
    writer.write("&gt;");
} else if (c=='&') {
    writer.write("&amp;");
} else if (c=='\n') {
    writer.write("\n");
} else if (c=='\r') {
    writer.write("\n");
} else if (c=='\t') {
    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 {
        // ...
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);
    }
    closeStartElement();
    writer.write("<!--");
    writer.write(chars.toString());
    writer.write("-->");
}

/**
 * Handle a comment.
 */

/**
 * 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 boolean canWrite = true;
    String destURI = null;
    OutputStream dest = null;

    String badDestURI = null;
    boolean watcherCalled = false;

    public void writeStartElement(String namespaceURI, String localName, String qName) {
        canWrite = true;
        if (destURI != null)
            destURI = null;
    }

    public void endOutput() {
        canWrite = true;
    }

    public void endElement() {
        if (!canWrite)
            throw new XPathException("Inside an XSLT result tree, no writes are allowed");
    }

    public void startElement(String namespaceURI, String localName, String qName, String attributes) {
        if (clean && open)
            canWrite = false;
    }

    public boolean needsResultingDataCreation() {
        return true;
    }

    public void startDocument(String namespaceURI, String qName) {
        canWrite = true;
    }

    public void errorStream(DataHandler d) {
        if (badDestURI != null)
            return;
        badDestURI = d.getURI();
    }

    public void error(DataHandler d) {
        if (badDestURI != null)
            return;
        errorStream(d);
    }

    protected void handleData(DataHandler d) {
        try {
            if (!canWrite)
                return;
            if (dest != null)
                return;
            OutputStream os = new ByteArrayOutputStream();
            destURI = d.getURI();
            dest = os;
            canWrite = true;
            watcherCalled = true;
        } catch (IOException e) {
            throw new XPathException(e.getMessage());
        }
    }

    protected void destroyResultingData() {
        try {
            if (dest != null)
                dest.close();
        } catch (IOException e) {
            throw new XPathException(e.getMessage());
        }
    }

    public void startNodes() {
        canWrite = true;
    }

    public void error(Exception e) {
        throw new XPathException(e.getMessage());
    }

    public void startAttributes() {
        canWrite = true;
    }

    public void endAttributes() {
        canWrite = true;
    }

    public void endNodes() {
        canWrite = true;
    }

    public void㎏

protected void handleData(DataHandler d) {
    try {
        if (!canWrite)
            return;
        if (dest != null)
            return;
        OutputStream os = new ByteArrayOutputStream();
        destURI = d.getURI();
        dest = os;
        canWrite = true;
        watcherCalled = true;
    } catch (IOException e) {
        throw new XPathException(e.getMessage());
    }

    protected void destroyResultingData() {
        try {
            if (dest != null)
                dest.close();
        } catch (IOException e) {
            throw new XPathException(e.getMessage());
        }
    }

    public void startNodes() {
        canWrite = true;
    }

    public void error(Exception e) {
        throw new XPathException(e.getMessage());
    }

    public void startAttributes() {
        canWrite = true;
    }

    public void endAttributes() {
        canWrite = true;
    }

    public void endNodes() {
        canWrite = true;
    }

    public void㎏
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
 * @throws XPathException
 */

private void firstContent() throws XPathException {
    controller.checkImplicitResultTree();
    if (!open) {
        open();
        startDocument(0);
    }
    clean = false;
}

public void close() throws XPathException {
    // If we haven't written any output, do the close only if no explicit result document has been written.
    // This will cause a file to be created and perhaps an XML declaration to be written
    if (!clean || !controller.hasThereBeenAnExplicitResultDocument()) {
        if (!open) {
            open();
        }
        nextReceiver.close();
    }
}

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package net.sf.saxon.event;
import net.sf.saxon.trans.XPathException;

/**
 * MessageEmitter is the default Receiver for xsl:message output.
 * It is the same as XMLEmitter except for an extra newline at the end of the message
 */

public class MessageEmitter extends XMLEmitter{
    public void endDocument() throws XPathException {
        try {
            writer.write('n');
        } catch (java.io.IOException err) {
            throw new XPathException(err);
        }
        super.close();
    }

    public void close() throws XPathException {
        try {
            if (writer != null) {
                writer.flush();
            }
        } catch (java.io.IOException err) {
            throw new XPathException(err);
        }
    }
}

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//
package net.sf.saxon.event;
import net.sf.saxon.om.NamespaceConstant;
import net.sf.saxon.om.NamePool;
import net.sf.saxon.trans.XPathException;
import net.sf.saxon.type.Type;
import net.sf.saxon.value.Whitespace;
import javax.xml.transform.OutputKeys;
import javax.xml.transform.Result;
import java.util.ArrayList;
import java.util.List;
import java.util.Properties;

/**
 * This class is used when the decision on which serialization method to use has to be delayed until the first
 * element is read. It buffers comments and processing instructions until that happens; then when the first
 * element arrives it creates a real serialization pipeline and uses that for future output.
 * @author Michael H. Kay
 */

public class UncommittedSerializer extends ProxyReceiver {

    boolean committed = false;
    List pending = null;
    Result finalResult;
    Properties outputProperties;

    /**
     * Create an uncommitted Serializer
     * @param finalResult the output destination
     * @param outputProperties the serialization properties
     */

    public UncommittedSerializer(Result finalResult, Properties outputProperties) {
        this.finalResult = finalResult;
        this.outputProperties = outputProperties;
        setUnderlyingReceiver(new Sink());
    }

    public void open() throws XPathException {
        committed = false;
    }

    /**
     * End of document
     */
public void close() throws XPathException {
    // empty output: must send a beginDocument()/endDocument() pair to the content handler
    if (!committed) {
        switchToMethod("xml");
    }
    getUnderlyingReceiver().close();
}

/**
 * Produce character output using the current Writer. <BR>
 */

public void characters(CharSequence chars, int locationId, int properties) throws XPathException {
    if (committed) {
        getUnderlyingReceiver().characters(chars, locationId, properties);
    } else {
        if (pending==null) {
            pending = new ArrayList(10);
        }
        PendingNode node = new PendingNode();
        node.kind = Type.TEXT;
        node.name = null;
        node.content = chars.toString(); // needs to be immutable
        node.locationId = locationId;
        node.properties = properties;
        pending.add(node);
        if (!Whitespace.isWhite(chars)) {
            switchToMethod("xml");
        }
    }
}

/**
 * Processing Instruction
 */

public void processingInstruction(String target, CharSequence data, int locationId, int properties) throws XPathException {
    if (committed) {
        getUnderlyingReceiver().processingInstruction(target, data, locationId, properties);
    } else {
        if (pending==null) {
            pending = new ArrayList(10);
        }
        PendingNode node = new PendingNode();
        node.kind = Type.PROCESSING_INSTRUCTION;
        node.name = target;
node.content = data;
node.locationId = locationId;
node.properties = properties;
pending.add(node);
}
}

/**
 * Output a comment
 */

public void comment (CharSequence chars, int locationId, int properties) throws XPathException {
if (committed) {
    getUnderlyingReceiver().comment(chars, locationId, properties);
} else {
    if (pending==null) {
        pending=new ArrayList(10);
    }
    PendingNode node = new PendingNode();
    node.kind = Type.COMMENT;
    node.name = null;
    node.content = chars;
    node.locationId = locationId;
    node.properties = properties;
    pending.add(node);
}
}

/**
 * Output an element start tag. <br>
 * This can only be called once: it switches to a substitute output generator for XML, XHTML, or HTML,
 * depending on the element name.
 * @param nameCode The element name (tag)
 * @param typeCode The type annotation
 * @param properties Bit field holding special properties of the element
 */

public void startElement(int nameCode, int typeCode, int locationId, int properties) throws XPathException {
if (!committed) {
    NamePool namePool = getNamePool();
    String name = namePool.getLocalName(nameCode);
    short uriCode = namePool.getURICode(nameCode);
    if (name.equalsIgnoreCase("html") && uriCode==NamespaceConstant.NULL_CODE) {
        switchToMethod("html");
    } else if (name.equals("html") &&
    namePool.getURIFromURICode(uriCode).equals(NamespaceConstant.XHTML)) {
        String version = outputProperties.getProperty(SaxonOutputKeys.STYLESHEET_VERSION);
        if ("1".equals(version)) {


switchToMethod("xml");
} else {
    switchToMethod("xhtml");
}
} else {
    switchToMethod("xml");
}
}  
}  
getUnderlyingReceiver().startElement(nameCode, typeCode, locationId, properties);

/**
 * Switch to a specific emitter once the output method is known
 * @param method the method to switch to (xml, html, xhtml)
 */
private void switchToMethod(String method) throws XPathException {
    Properties newProperties = new Properties(outputProperties);
    newProperties.setProperty(OutputKeys.METHOD, method);
    SerializerFactory sf = getConfiguration().getSerializerFactory();
    Receiver target = sf.getReceiver(finalResult, getPipelineConfiguration(), newProperties);
    committed = true;
    target.open();
    target.startDocument(0);
    if (pending!=null) {
        for (int i = 0; i < pending.size(); i++) {
            PendingNode node = (PendingNode)pending.get(i);
            switch (node.kind) {
                case Type.COMMENT:
                    target.comment(node.content, node.locationId, node.properties);
                    break;
                case Type.PROCESSING_INSTRUCTION:
                    target.processingInstruction(node.name, node.content, node.locationId, node.properties);
                    break;
                case Type.TEXT:
                    target.characters(node.content, node.locationId, node.properties);
                    break;
            }
        }
        pending = null;
    }
    setUnderlyingReceiver(target);
}

/**
 * A text, comment, or PI node that hasn't been output yet because we don't yet know what output
 * method to use
 */
private static final class PendingNode {
    int kind;
    String name;
    CharSequence content;
    int properties;
    int locationId;
}

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//
package net.sf.saxon.event;

import net.sf.saxon.trans.XPathException;
import net.sf.saxon.om.FastStringBuffer;
import java.io.IOException;

/**
 * The XQueryEmitter is designed to serialize an XQuery that was originally embedded in an
 * XML document. It is a variant of the XMLEmitter, and differs in that the operators <, >, <=, >=, <<, and <<<
 * are output without escaping. They are recognized by virtue of the fact that they appear in text or attribute
 * content between curly braces but not in quotes.
 */

public class XQueryEmitter extends XMLEmitter {

    /**
     * Write contents of array to current writer, after escaping special characters.
     * This method converts the XML special characters (such as < and & ) into their
     * predefined entities.
     */

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--;
        } else if (inBraces & c=='
') {
            buff.append((char)0);
            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;

public final class ComplexContentOutputter extends SequenceReceiver {

private Receiver nextReceiver;

private int pendingStartTag = -2;

private int level = -1; // records the number of startDocument or startElement events

private boolean[] currentLevelIsDocument = new boolean[20];

private int[] pendingAttCode = new int[20];
private int[] pendingAttType = new int[20];
private String[] pendingAttValue = new String[20];
private int[] pendingAttLocation = new int[20];
private int[] pendingAttProp = new int[20];
private int pendingAttListSize = 0;

private int[] pendingNSList = new int[20];
private int pendingNSListSize = 0;

private int currentSimpleType = -1; // any other value means we are currently writing an
  // element of a particular simple type

private int startElementProperties;
private int startElementLocationId;
private boolean declaresDefaultNamespace;
private int hostLanguage = Configuration.XSLT;
private boolean started = false;

/**
 * Create a ComplexContentOutputter
 */

public ComplexContentOutputter() {
}

public void setPipelineConfiguration(PipelineConfiguration pipe) {
  if (pipelineConfiguration != pipe) {
    pipelineConfiguration = pipe;
    if (nextReceiver != null) {
      nextReceiver.setPipelineConfiguration(pipe);
    }
  }
}

/**
 * Set the host language
 * @param language the host language, for example {@link Configuration#XQUERY}
 */

public void setHostLanguage(int language) {
  hostLanguage = language;
}

/**
 * Set the receiver (to handle the next stage in the pipeline) directly
 * @param receiver the receiver to handle the next stage in the pipeline
 */

public void setReceiver(Receiver receiver) {

this.nextReceiver = receiver;
}

/**
 * Test whether any content has been written to this ComplexContentOutputter
 * @return true if content has been written
 */

public boolean contentHasBeenWritten() {
    return started;
}

/**
 * Start the output process
 */

public void open() throws XPathException {
    nextReceiver.open();
    previousAtomic = false;
}

/**
 * Start of a document node.
 */

public void startDocument(int properties) throws XPathException {
    level++;
    if (level == 0) {
        nextReceiver.startDocument(properties);
    } else if (pendingStartTag >= 0) {
        startContent();
        pendingStartTag = -2;
    }
    previousAtomic = false;
    if (currentLevelIsDocument.length < level+1) {
        boolean[] b2 = new boolean[level*2];
        System.arraycopy(currentLevelIsDocument, 0, b2, 0, level);
        currentLevelIsDocument = b2;
    }
    currentLevelIsDocument[level] = true;
}

/**
 * Notify the end of a document node
 */

public void endDocument() throws XPathException {
    if (level == 0) {
    }
}

/**
 * Notify the end of a document node
 */

public void endDocument() throws XPathException {
    if (level == 0) {
    }
}
```java
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 (currentLevelsIsDocument.length < level+1) {
    boolean[] b2 = new boolean[level*2];
    System.arraycopy(currentLevelsIsDocument, 0, b2, 0, level);
    currentLevelsIsDocument = b2;
}
currentLevelsIsDocument[level] = false;
}

/**
 * Output a namespace declaration. <br>
 * This is added to a list of pending namespaces for the current start tag. <br>
 * If there is already another declaration of the same prefix, this one is <br>
 * ignored, unless the REJECT_DUPLICATES flag is set, in which case this is an error. <br>
 * Note that unlike SAX2 startPrefixMapping(), this call is made AFTER writing the start tag. <br>
 * @param nscode The namespace code <br>
 * @param properties
 * @throws XPathException if there is no start tag to write to (created using writeStartTag), <br>
 * or if character content has been written since the start tag was written. <br>
 */
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 <br>
    // result tree is done by the NamespaceReducer.

    // Handle declarations whose prefix is duplicated for this element.

    boolean rejectDuplicates = (properties & ReceiverOptions.REJECT_DUPLICATES) != 0;

    for (int i=0; i<pendingNSListSize; i++) {
        if (nscode == pendingNSList[i]) {
            // same prefix and URI: ignore this duplicate
            return;
        }
    }
if ((nscode>>16) == (pendingNSList[i]>>16)) {
    if (rejectDuplicates) {
        String prefix = pool.getPrefixFromNamespaceCode(nscode);
        String uri1 = pool.getURIFromNamespaceCode(nscode);
        String uri2 = pool.getURIFromNamespaceCode(pendingNSList[i]);
        XPathException err = new XPathException("Cannot create two namespace nodes with the same prefix
                                            mapped to different URIs (prefix=" +
                                            (prefix.length() == 0 ? "" : prefix) + ", URI=" +
                                            (uri1.length() == 0 ? "" : uri1) + ", URI=" +
                                            (uri2.length() == 0 ? "" : uri2) + ")");
        err.setErrorCode("XTDE0430");
        throw err;
    } else {
        // same prefix, do a quick exit
        return;
    }
}

// It is an error to output a namespace node for the default namespace if the element
// itself is in the null namespace, as the resulting element could not be serialized

if (((nscode>>16) == 0) && ((nscode&0xffff)!=0)) {
    declaresDefaultNamespace = true;
    if (elementIsInNullNamespace == null) {
        elementIsInNullNamespace = Boolean.valueOf(
            pool.getURI(pendingStartTag).equals(NamespaceConstant.NULL));
    } if (elementIsInNullNamespace.booleanValue()) {
        XPathException err = new XPathException("Cannot output a namespace node for the default namespace
when the element is in no namespace");
        err.setErrorCode("XTDE0440");
        throw err;
    }
}

// if it's not a duplicate namespace, add it to the list for this start tag

if (pendingNSListSize+1 > pendingNSList.length) {
    int[] newlist = new int[pendingNSListSize * 2];
    System.arraycopy(pendingNSList, 0, newlist, 0, pendingNSListSize);
    pendingNSList = newlist;
    pendingNSList[pendingNSListSize++] = nscode;
    previousAtomic = false;
}
/**
 * Output an attribute value. <br>
 * This is added to a list of pending attributes for the current start tag, overwriting
 * any previous attribute with the same name. <br>
 * This method should NOT be used to output namespace declarations.<br>
 * @param nameCode The name of the attribute
 * @param value The value of the attribute
 * @param properties Bit fields containing properties of the attribute to be written
 * @throws XPathException if there is no start tag to write to (created using writeStartTag),
 * or if character content has been written since the start tag was written.
 */

public void attribute(int nameCode, int typeCode, CharSequence value, int locationId, int properties) throws XPathException {
    //System.err.println("Write attribute " + nameCode + "=" + value + " to Outputter " + this);

    if (pendingStartTag < 0) {
        // The complexity here is in identifying the right error message and error code

        XPathException err = NoOpenStartTagException.makeNoOpenStartTagException(
            Type.ATTRIBUTE,
            getNamePool().getDisplayName(nameCode),
            hostLanguage,
            level<0 || currentLevelIsDocument[level],
            getPipelineConfiguration().isSerializing());

        LocationProvider lp = getPipelineConfiguration().getLocationProvider();
        if (lp != null) {
            err.setLocator(new ExpressionLocation(lp, locationId));
        }
        throw err;
    }

    // if this is a duplicate attribute, overwrite the original, unless
    // the REJECT_DUPLICATES option is set.

    for (int a=0; a<pendingAttListSize; a++) {
        if (((pendingAttCode[a] & 0xfffff) == (nameCode & 0xfffff)) {
            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
 * @param seq sequence number for use in the substitute prefix
 * @return a prefix to use in place of the one originally proposed
 */

private String getSubstitutePrefix(int nscode, int seq) {
    String prefix = getNamePool().getPrefixFromNamespaceCode(nscode);
    return prefix + '_' + seq;
}

/**
 * Output an element end tag.
public void endElement() throws XPathException {
    //System.err.println("Write end tag "+ this + ": " + name);
    if (pendingStartTag >= 0) {
        startContent();
    } else {
        pendingStartTag = -2;
    }

    // write the end tag
    nextReceiver.endElement();
    level--;
    previousAtomic = false;
}

/**
* Write a comment
*/

public void comment(CharSequence comment, int locationId, int properties) throws XPathException {
    if (pendingStartTag >= 0) {
        startContent();
    }
    nextReceiver.comment(comment, locationId, properties);
    previousAtomic = false;
}

/**
* Write a processing instruction
*/

public void processingInstruction(String target, CharSequence data, int locationId, int properties) throws XPathException {
    if (pendingStartTag >= 0) {
        startContent();
    }
    nextReceiver.processingInstruction(target, data, locationId, properties);
    previousAtomic = false;
}

/**
* Append an arbitrary item (node or atomic value) to the output
* @param item the item to be appended
* @param locationId the location of the calling instruction, for diagnostics
* @param copyNamespaces if the item is an element node, this indicates whether its namespaces
* need to be copied. Values are {link net.sf.saxon.om.NodeInfo#ALL_NAMESPACES}, {link
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;
}
}
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.
 *
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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//
package net.sf.saxon.type;

import net.sf.saxon.expr.Expression;
import net.sf.saxon.expr.StaticContext;
import net.sf.saxon.om.*;
import net.sf.saxon.om.StandardNames;
import net.sf.saxon.value.UntypedAtomicValue;
import net.sf.saxon.value.Value;
import net.sf.saxon.value.Whitespace;

/**
 * This class has a singleton instance which represents the XML Schema built-in type xs:anySimpleType
 */

public final class AnySimpleType implements SimpleType {

    private static AnySimpleType theInstance = new AnySimpleType();

    /**
     * Private constructor
     */
    private AnySimpleType() {
    }

    /**
     * Get the local name of this type
     *
     * @return the local name of this type definition, if it has one. Return null in the case of an
     * anonymous type.
     */
    public String getName() {
        return "anySimpleType";
    }

    /**
     * Get the target namespace of this type
     *
     * @return the target namespace of this type definition, if it has one. Return null in the case
     * of an anonymous type, and in the case of a global type defined in a no-namespace schema.
     */
    public String getTargetNamespace() {
        return NamespaceConstant.SCHEMA;
    }

    /**
     * Return true if this is an external object type, that is, a Saxon-defined type for external
     * Java or .NET objects
     */
    public boolean isExternalType() {
        
    }
return false;
}

/**
 * Determine whether this is a built-in type or a user-defined type
 */
public boolean isBuiltInType() {
    return true;
}

/**
 * Get the URI of the schema document containing the definition of this type
 * @return null for a built-in type
 */
public String getSystemId() {
    return null;
}

/**
 * Get the most specific possible atomic type that all items in this SimpleType belong to
 * @return the lowest common supertype of all member types
 */
public AtomicType getCommonAtomicType() {
    return BuiltInAtomicType.ANY_ATOMIC;
}

/**
 * Get the singular instance of this class
 * @return the singular object representing xs:anyType
 */
public static AnySimpleType getInstance() {
    return theInstance;
}

/**
 * Get the validation status - always valid
 */
public int getValidationStatus() {
    return VALIDATED;
}

/**
 * Get the base type
 * @return AnyType

public SchemaType getBaseType() {
    return AnyType.getInstance();
}

/**
 * Returns the base type that this type inherits from. This method can be used to get the
 * base type of a type that is known to be valid.
 * @return the base type.
 */

public SchemaType getKnownBaseType() throws IllegalStateException {
    return getBaseType();
}

/**
 * Test whether this SchemaType is a complex type
 * @return true if this SchemaType is a complex type
 */

public boolean isComplexType() {
    return false;
}

/**
 * Test whether this SchemaType is a simple type
 * @return true if this SchemaType is a simple type
 */

public boolean isSimpleType() {
    return true;
}

/**
 * Get the fingerprint of the name of this type
 * @return the fingerprint.
 */

public int getFingerprint() {
    return StandardNames.XS_ANY_SIMPLE_TYPE;
}

/**
 * Get the namecode of the name of this type. This includes the prefix from the original
 * type declaration: in the case of built-in types, there may be a conventional prefix
 * or there may be no prefix.
 */
public int getNameCode() {
    return StandardNames.XS_ANY_SIMPLE_TYPE;
}

/**
 * Get a description of this type for use in diagnostics
 * @return the string "xs:anyType"
 */

public String getDescription() {
    return "xs:anySimpleType";
}

/**
 * Get the display name of the type: that is, a lexical QName with an arbitrary prefix
 *
 * @return a lexical QName identifying the type
 */

public String getDisplayName() {
    return "xs:anySimpleType";
}

/**
 * Test whether this is the same type as another type. They are considered to be the same type
 * if they are derived from the same type definition in the original XML representation (which
 * can happen when there are multiple includes of the same file)
 */

public boolean isSameType(SchemaType other) {
    return (other instanceof AnySimpleType);
}

/**
 * Get the typed value of a node that is annotated with this schema type. This shouldn't happen: nodes
 * are never annotated as xs:anySimpleType; but if it does happen, we treat it as if it were
 * untypedAtomic.
 * @param node the node whose typed value is required
 * @return an iterator returning a single untyped atomic value, equivalent to the string value of the node.
 */

public SequenceIterator getTypedValue(NodeInfo node) {
    return SingletonIterator.makeIterator(new UntypedAtomicValue(node.getStringValueCS()));
}

/**}
* Get the typed value of a node that is annotated with this schema type. The result of this method will always be consistent with the method
* [ @link #getTypedValue ]. However, this method is often more convenient and may be
* more efficient, especially in the common case where the value is expected to be a singleton.
* *
* @param node the node whose typed value is required
* @return the typed value.
* @since 8.5
*/

public Value atomize(NodeInfo node) {
    return new UntypedAtomicValue(node.getStringValueCS());
}

/**
* Check that this type is validly derived from a given type
* *
* @param type the type from which this type is derived
* @param block the derivations that are blocked by the relevant element declaration
* @throws SchemaException if the derivation is not allowed
*/

public void checkTypeDerivationIsOK(SchemaType type, int block) throws SchemaException {
    if (type == this) {
        return;
    }
    throw new SchemaException("Cannot derive xs:anySimpleType from another type");
}

/**
* Test whether this Simple Type is an atomic type
* @return false, this is not (necessarily) an atomic type
*/

public boolean isAtomicType() {
    return false;
}

public boolean isAnonymousType() {
    return false;
}

/**
* Determine whether this is a list type
* @return false (it isn't a list type)
*/
public boolean isListType() {
    return false;
}

/**
 * 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 [net.sf.saxon.value.Whitespace#PRESERVE], [net.sf.saxon.value.Whitespace#COLLAPSE],
 *         [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: [net.sf.saxon.type.Type#ELEMENT],
 *              [net.sf.saxon.type.Type#ATTRIBUTE], or [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.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.
 */


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;

}
package net.sf.saxon.type;

import net.sf.saxon.om.NameChecker;
import net.sf.saxon.om.NamespaceResolver;
import net.sf.saxon.om.SequenceIterator;

/**
 * This interface represents a simple type, which may be a built-in simple type, or
 * a user-defined simple type.
 */

public interface SimpleType extends SchemaType {

    /**
     * Test whether this Simple Type is an atomic type
     * @return true if this is an atomic type
     */
    boolean isAtomicType();

    /**
     * Test whether this Simple Type is a list type
     * @return true if this is a list type
     */
    boolean isListType();

    /**
     * Test whether this Simple Type is a union type
     * @return true if this is a union type
     */
    boolean isUnionType();

    /**
     * Return true if this is an external object type, that is, a Saxon-defined type for external
* Java or .NET objects
* @return true if this is an external type
*/

boolean isExternalType();

/**
 * Get the most specific possible atomic type that all items in this SimpleType belong to
 * @return the lowest common supertype of all member types
 */

AtomicType getCommonAtomicType();

/**
 * Determine whether this is a built-in type or a user-defined type
 * @return true if this is a built-in type
 */

boolean isBuiltInType();

/**
 * Get the built-in type from which this type is derived by restriction
 * @return the built-in type from which this type is derived by restriction. This will not necessarily
 * be a primitive type.
 */

SchemaType getBuiltInBaseType();

/**
 * Get the typed value corresponding to a given string value, assuming it is
 * valid against this type
 * @param value the string value
 * @param resolver a namespace resolver used to resolve any namespace prefixes appearing
 * in the content of values. Can supply null, in which case any namespace-sensitive content
 * will be rejected.
 * @param nameChecker a NameChecker used in the case of types that are defined in terms of the
 * XML NCName syntax: this is used to check conformance to XML 1.0 or XML 1.1 naming rules, as
 * appropriate
 * @param resolver a namespace resolver used to resolve any namespace prefixes appearing
 * in the content of values. Can supply null, in which case any namespace-sensitive content
 * will be rejected.
 * @param nameChecker a NameChecker used in the case of types that are defined in terms of the
 * XML NCName syntax: this is used to check conformance to XML 1.0 or XML 1.1 naming rules, as
 * appropriate
 * @return an iterator over the atomic sequence comprising the typed value. The objects
 * returned by this SequenceIterator will all be of type { @link net.sf.saxon.value.AtomicValue},
 * The next() method on the iterator throws no checked exceptions, although it is not actually
 * declared as an UnfailingIterator.
 * @throws ValidationException if the supplied value is not in the lexical space of the data type
 */

public SequenceIterator getTypedValue(CharSequence value, NamespaceResolver resolver, NameChecker
nameChecker)
    throws ValidationException;
/**
 * Check whether a given input string is valid according to this SimpleType
 * @param value the input string to be checked
 * @param nsResolver a namespace resolver used to resolve namespace prefixes if the type
 * is namespace sensitive. The value supplied may be null; in this case any namespace-sensitive
 * content will throw an UnsupportedOperationException.
 * @param nameChecker XML 1.0 or 1.1 name checker, needed when types such as xs:NCName are used
 * @return null if validation succeeds; return a ValidationFailure describing the validation failure
 * if validation fails. Note that the exception is returned rather than being thrown.
 * @throws UnsupportedOperationException if the type is namespace-sensitive and no namespace
 * resolver is supplied
 */

ValidationFailure validateContent(CharSequence value, NamespaceResolver nsResolver, NameChecker
nameChecker);

/**
 * Test whether this type is namespace sensitive, that is, if a namespace context is needed
 * to translate between the lexical space and the value space. This is true for types derived
 * from, or containing, QNames and NOTATIONs
 * @return true if the type is namespace-sensitive
 */

boolean isNamespaceSensitive();

/**
 * Determine how values of this simple type are whitespace-normalized.
 * @return one of {
 * @link net.sf.saxon.value.Whitespace#PRESERVE}, {
 * @link net.sf.saxon.value.Whitespace#COLLAPSE},
 * {
 * @link net.sf.saxon.value.Whitespace#REPLACE}.
 * @param th the type hierarchy cache. Not needed in the case of a built-in type
 */

public int getWhitespaceAction(TypeHierarchy th);
}
The Initial Developer of the Original Code is Michael H. Kay

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1.1048 Saxon-HE-9.4 9.4

1.1049 saxon9-dom-9.1.0.6 9.1.0.6

1.1050 saxon9-jdom 9.1

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1.1051 saxon9-xpath 9.1

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The Initial Developer of the Original Code is Lauren Ward. All Rights Reserved.
Contributor(s): Integrated into Saxon by Michael Kay. Removed code to perform dynamic
initialization of the boolean array, replaced it with generated static data.

******************************************************************

Author:
1.1052 saxpath.jar 1.0

1.1052.1 Available under license:

/*--

$Id: LICENSE,v 1.1 2002/04/26 17:43:56 jstrachan Exp $

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*/

1.1053 scannotation 1.0.3
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1.1054 screen 4.1.0
:0.25.20120314git3c2946.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.

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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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
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Test 1.1:101
=*=*=*=*=*=*=*

Testing argument parsing
First type
e1_l1_1
e1_l1_1
e1_l1_2
e1_l1_2
e1_l1_3
e1_l1_3
e1_l1_4
Test 1.2:102

Test 1.3:103
Second type

Test 1.4.1:105

11_1
11_2
11_3
11_4
11_5
11_6
11_7
11_8
11_9
11_10
11_11
11_12
11_13
11_14

==============
Test 1.5:106
==============
s1_11_1
s1_11_2
s1_11_3
s1_11_4
s1_11_5
s1_11_6
s1_11_7
s1_11_8
s1_11_9
s1_11_10
s1_11_11
s1_11_12
s1_11_13
s1_11_14
s1_11_14

==============
Test 1.6:107
==============
Test 1.7:108

-----------------
sl_l1_1
sl_l1_1
sl_l1_2
sl_l1_2
sl_l1_3
sl_l1_3
sl_l1_4
sl_l1_4
sl_l1_5
sl_l1_5
sl_l1_6
sl_l1_6
sl_l1_7
sl_l1_7
sl_l1_8
sl_l1_8
sl_l1_9
sl_l1_9
sl_l1_10
sl_l1_10
sl_l1_11
sl_l1_11
sl_l1_12
sl_l1_12
sl_l1_13
sl_l1_13
sl_l1_14
sl_l1_14

-----------------
e1_l1_1
e1_l1_1
e1_l1_2
e1_l1_2
e1_l1_3
e1_l1_3
e1_l1_4
e1_l1_4
e1_l1_5
e1_l1_5
e1_l1_6
e1_l1_6
e1_l1_7
e1_l1_7
e1_l1_8
e1_l1_8
Test 1.8:109

Test 1.9:110
Test 1.10:111

Test 1.11:112

Test 1.11:112
el_11_13
el_11_14

=============
Test 1.12:113
=============
el_11_1
el_11_2
el_11_3
el_11_4
el_11_5
el_11_6
el_11_7
el_11_8
el_11_9
el_11_10
el_11_11
el_11_12
el_11_13
el_11_14

=============
Test 1.13:114
=============
el_11_1
e2_e1_11_1
e2_e1_11_1
e1_11_2
e2_e1_11_2
e2_e1_11_2
e1_11_3
e2_e1_11_3
e2_e1_11_3
e1_11_4
e2_e1_11_4
e2_e1_11_4
e1_11_5
e2_e1_11_5
e2_e1_11_5
e1_11_6
e2_e1_11_6
e2_e1_11_6
e1_11_7
e2_e1_11_7
e2_e1_11_7
e1_11_8
e2_e1_11_8
e2_e1_11_8
Test 1.16:117

-------------------
e1_l1_1
e1_l1_2
e1_l1_3
e1_l1_4
e1_l1_5
e1_l1_6
e1_l1_7
e1_l1_8
e1_l1_9
e1_l1_10
-------------------

Test 1.17:118
Testing address ranges

Test 2.1:120

Test 2.2:121

Test 2.3:122

Test 2.4:123
Open Source Used In Prime Infrastructure 3.7
Test 2.14:132

Test 2.15:133

11_8
11_9
11_10
11_11
11_12
11_13
11_14
12_1
12_2
12_3
12_4
12_5
12_6
12_7
12_8
12_9

11_1
11_2
11_3
11_4
11_5
11_6
11_7
11_8
11_9
11_10
11_11
11_12
11_13
11_14
12_1
12_2
12_3
12_4
12_5
12_6
12_7
12_8
12_9

11_4
11_5
11_6
11_7
11_8
11_9
11_10
11_11
11_12
11_13
11_14
12_1
12_2
12_3
12_4
12_5
12_6
12_7
12_8
12_9

==============
Test 2.16:134
==============
11_4
11_5
11_6
11_7
11_8
11_9
11_10
11_11
11_12
11_13
11_14
12_1
12_2
12_3
12_4
12_5
12_6

==============
Test 2.17:135
==============
11_4
11_5
11_6
11_7
l1_8
l1_9
l1_10
l1_14
l2_1
l2_2
l2_3
l2_4
l2_5
l2_6
l2_7
l2_8
l2_9

==============
Test 2.18:136
==============
l2_3
l2_4
l2_5
l2_6
l2_7
l2_8
l2_9

==============
Test 2.19:137
==============
l1_12

==============
Test 2.20:138
==============
l1_7
Brace and other grouping

==============
Test 3.1:139
==============
l1_1
l1_2
l1_3
^l1T4$
^l1T5$
^l1T6$
^l1T7$
^l1T8$
^l1T9$
Testing a c d and i commands

============= Test 4.1:143 ===========

before_i1_1
after_i1_1
before_i1_2
after_i1_2
before_i1_3
after_i1_3
before_i1_4
after_i1_4
before_i1_5
after_i1_5
before_i1_6
after_i1_6
before_i1_7
after_i1_7
before_i1_8
after_i1_8
before_i1_9
after_i1_9
before_i1_10
after_i1_10
before_i1_11
after_i1_11
before_i1_12
after_i1_12
before_i1_13
after_i1_13
before_i1_14
after_i1_14
before_i2_1
after_i2_1
before_i2_2
after_i2_2
before_il2_3
after_ibefore_il2_3
before_il2_4
after_ibefore_il2_4
before_il2_5
after_ibefore_il2_5
before_il2_6
inserted
after_ibefore_il2_6
before_il2_7
after_ibefore_il2_7
before_il2_8
after_ibefore_il2_8
before_il2_9
after_ibefore_il2_9

==========
Test 4.2:144
==========
before_al1_1
after_abefore_al1_1
before_al1_2
after_abefore_al1_2
before_al1_3
after_abefore_al1_3
before_al1_4
after_abefore_al1_4
before_a5-1211_5
after_abefore_a5-1211_5
appended
before_a5-1211_6
after_abefore_a5-1211_6
appended
before_a5-1211_7
after_abefore_a5-1211_7
appended
before_a5-1211_8
after_abefore_a5-1211_8
appended
before_a5-1211_9
after_abefore_a5-1211_9
appended
before_a5-1211_10
after_abefore_a5-1211_10
appended
before_a5-1211_11
after_abefore_a5-1211_11
appended
before_a5-12l1_12
after_abefore_a5-12l1_12
appended
before_al1_13
after_abefore_al1_13
before_al1_14
after_abefore_al1_14
before_al2_1
after_abefore_al2_1
before_al2_2
after_abefore_al2_2
before_al2_3
after_abefore_al2_3
before_al2_4
after_abefore_al2_4
before_al2_5
after_abefore_al2_5
before_al2_6
after_abefore_al2_6
before_al2_7
after_abefore_al2_7
before_al2_8
after_abefore_al2_8
before_al2_9
after_abefore_al2_9

============
Test 4.3:145
============
^l1_1
^l1_1$
appended
^l1_2
^l1_2$
appended
^l1_3
^l1_3$
appended
^l1_4
^l1_4$
appended
^l1_5
^l1_5$
appended
^l1_6
^l1_6$
appended
^l1_7
Test 4.4:146

hello
hello
hello
hello
hello
hello
hello
hello
hello
hello
hello
hello
hello
hello

============
Test 4.5:147
============
hello

============
Test 4.6:148
============
hello

============
Test 4.7:149
============
hello

============
Test 4.8:150
============
Testing labels and branching

============
Test 5.1:151
============
label2_11_1
label3_label2_11_1
label1_11_2
label1_11_3
label1_11_4
label1_11_5
label1_11_6
label1_11_7
label1_11_8
label1_11_9
label1_11_10
label1_11_11
label1_11_12
label2_11_13
label3_label2_11_13
label2_11_14
label3_label2_11_14
Test 5.2:152

tested l2_1
tested l2_2
tested l2_3
tested l2_4
tested l2_5
tested l2_6
tested l2_7
tested l2_8
tested l2_9
tested l2_10
tested l2_11
tested l2_12
tested l2_13
tested l2_14

Test 5.3:153

^l1_1
^l1_1$
^l1_2
^l1_2$
^l1_3
^l1_3$
l1_4
^l1_4$
l1_5$
l1_6$
l1_7$
l1_8$

Test 5.4:154

^l1_1$
^l1_2$
^l1_3$
^l1_4$
^l1_5$
^l1_6$
^l1_7$
^l1_8$
l1_9$
l1_10$
11_11$
11_12$
11_13$
11_14$

------------
Test 5.5:155
------------
^11_1
^11_2
^11_4
^11_6
^11_8

------------
Test 5.6:156
------------
11_1
11_2
11_3
11_4
11_5

------------
Test 5.7:157
------------
11_1
11_2
11_3
11_4
hello
11_5

------------
Test 5.8:158
------------
m1_1
m1_2
m1_3
m1_4
m1_5
m1_6
m1_7
m1_8
m1_9
m1_10
m1_11
m1_12
Pattern space commands

Test 6.1:159

Test 6.2:160

Test 6.3:161
Testing print and file routines

Test 7.2:166

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

$
Test 7.3:167

Test 7.4:168
12_4
12_5
12_6
12_7
12_8
12_9
11_5
11_6
11_7
11_8
11_9
11_10
11_11
11_12
11_13
11_14

============
Test 7.5:169
============
l1_1
l1_2
l1_3
l1_4
l1_5
l1_6
l1_7
l1_8
l1_9
l1_10
l1_11
l1_12
l1_13
l1_14

============
Test 7.6:170
============
l1_1
l1_2
l1_3
l1_4
l1_5
l1_6
l1_7
l1_8
l1_9
l1_10
l1_11
l1_12
l1_13
l1_14
Testing substitution commands

Test 8.2:173

XXXXXXXXX

-------------------
Test 8.3:174

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

XXXX
XXXX
XXXX
XXXX
XXXX
XXXX
XXXX
XXXX
XXXX
XXXX

------------
Test 8.4:175

------------
l1_1
l1_2
l1_3
l1_4
l1_5
l1_6
l1_7
l1_8
l1_9
l1_10
l1_11
l1_12
l1_13
l1_14

------------
Test 8.5:176

------------
l1X1
l1X2
l1X3
l1X4
l1X5
l1X6
l1X7
l1X8
l1X9
l1X10
Open Source Used In Prime Infrastructure 3.7

Test 8.6:177

Test 8.7:178

Test 8.8:179

x_x1x1
x_x1x2
x_x1x3
x_x1x4
x_x1xl5
x_x1xl6
x_x1xl7
x_x1xl8
x_x1xl9
x_x1xl10
x_x1xl11
x_x1xl12
x_x1xl13
x_x1xl14

=============
Test 8.9:180
==============
l1u0
u1
u21
l1u0
u1
u22
l1u0
u1
u23
l1u0
u1
u24
l1u0
u1
u25
l1u0
u1
u26
l1u0
u1
u27
l1u0
u1
u28
l1u0
u1
u29
l1u0
u1
u210
l1u0
u1
u211
l1u0
Test 8.14:185

18_8
18_7
18_6
18_5
18_4
18_3
18_2
18_1
18_0
18_89
18_88
18_87
18_86
18_85

Test 8.15:186

11_1X11_2
11_3
11_4
11_5
11_6
11_7
11_8
11_9
11_10
11_11
11_12
11_13
11_14

Test 8.16:187

eeefff
Xeefff
XYefff
XYeYff
XYeYYf
XYeYYY
XYeYYY

Test 8.17:188
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1.1084 snakeyaml 1.23

1.1085 snappy 1.1.0 :3.el7
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package org.apache.solr.security;

import java.util.Collection;
import java.util.Collections;
import java.util.HashSet;
import java.util.LinkedHashMap;
import java.util.List;
import java.util.Map;
import java.util.Set;
import java.util.function.Function;
import java.util.regex.Pattern;
import java.util.stream.Collectors;
import com.google.common.collect.ImmutableSet;
import org.apache.solr.common.SolrException;
import org.apache.solr.common.util.Utils;
import static java.util.Collections.singleton;
import static java.util.Collections.singletonList;
import static org.apache.solr.common.params.CommonParams.NAME;

class Permission {
    String name;
    Set<String> path, role, collections, method;
    Map<String, Function<String[], Boolean>> params;
    PermissionNameProvider.Name wellknownName;
    Map originalConfig;

    private Permission() {
    }

    static Permission load(Map m) {
        Permission p = new Permission();
        p.originalConfig = new LinkedHashMap<>(m);
        String name = (String) m.get(NAME);
        if (!m.containsKey("role")) throw new SolrException(SolrException.ErrorCode.BAD_REQUEST, "role not specified");
        p.role = readValueAsSet(m, "role");
        if (PermissionNameProvider.Name.get(name)!= null) {
            p.wellknownName = PermissionNameProvider.Name.get(name);
            HashSet<String> disAllowed = new HashSet<>(knownKeys);
            disAllowed.remove("name");//these are the only
            disAllowed.remove(NAME);//allowed keys for well-known permissions
            disAllowed.remove("collection");//allowed keys for well-known permissions
            disAllowed.remove("index");
            for (String s : disAllowed) {
                if (m.containsKey(s))
                    throw new SolrException(SolrException.ErrorCode.BAD_REQUEST, s + " is not a valid key for the
            permission : " + name);
        }
        p.name = name;
        p.path = readSetSmart(name, m, "path");
        p.collections = readSetSmart(name, m, "collection");
        p.method = readSetSmart(name, m, "method");
        Map<String, Object> paramRules = (Map<String, Object>) m.get("params");
        if (paramRules != null) {
            p.params = new LinkedHashMap<>();
            for (Map.Entry<String, Object> e : paramRules.entrySet()) {
                p.params.put(e.getKey(), e.getValue());
            }
        }
        return p;
    }
}
if (e.getValue() == null) {
    p.params.put(e.getKey(), (String[] val) -> val == null);
} else {
    List<String> patternStrs = e.getValue() instanceof List ?
        (List) e.getValue() :
        singletonList(e.getValue().toString());
    List patterns = patternStrs.stream()
        .map(it -> it.startsWith("REGEX:")) ?
        Pattern.compile(String.valueOf(it.substring("REGEX:".length()))) :
        it
        .collect(Collectors.toList());
    p.params.put(e.getKey(), val -> {
        if (val == null) return false;
        for (Object pattern : patterns) {
            for (String s : val) {
                if (pattern instanceof String) {
                    if (pattern.equals(s)) return true;
                } else if (pattern instanceof Pattern) {
                    if (((Pattern) pattern).matcher(s).find()) return true;
                }
            }
        }
        return false;
    });
}

/**
 * This checks for the defaults available other rules for the keys
 */
private static Set<String> readSetSmart(String permissionName, Map m, String key) {
    if(PermissionNameProvider.values.containsKey(permissionName) && !m.containsKey(key) &&
        "collection".equals(key)) {
        return PermissionNameProvider.Name.get(permissionName).collName;
    }
    Set<String> set = readValueAsSet(m, key);
    if ("method".equals(key)) {
        if (set != null) {
            for (String s : set) if (!HTTP_METHODS.contains(s)) return null;
        }
    return set;
    }
    return set == null ? singleton(null) : set;
}/**
* read a key value as a set. if the value is a single string ,
* return a singleton set
*
* @param m   the map from which to lookup
* @param key the key with which to do lookup
*/
static Set<String> readValueAsSet(Map m, String key) {
  Set<String> result = new HashSet<>();
  Object val = m.get(key);
  if (val == null) {
    if("collection".equals(key)) {
      //for collection collection: null means a core admin/ collection admin request
      // otherwise it means a request where collection name is ignored
      return m.containsKey(key) ? singleton(null) : singleton("*");
    }
    return null;
  }
  if (val instanceof Collection) {
    Collection list = (Collection) val;
    for (Object o : list) result.add(String.valueOf(o));
  } else if (val instanceof String) {
    result.add((String) val);
  } else {
    throw new RuntimeException("Bad value for : " + key);
  }
  return result.isEmpty() ? null : Collections.unmodifiableSet(result);
}

@Override
public String toString() {
  return Utils.toJSONString(originalConfig);
}

static final Set<String> knownKeys = ImmutableSet.of("collection", "role", "params", "path", "method", 
NAME,"index");
public static final Set<String> HTTP_METHODS = ImmutableSet.of("GET", "POST", "DELETE", "PUT",  
"HEAD");

}
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 */

package org.springframework.instrument;

import java.lang.instrument.Instrumentation;

/**
 * Java agent that saves the {@link Instrumentation} interface from the JVM
 * for later use.
 *
 * @author Rod Johnson
 * @author Juergen Hoeller
 * @since 2.0
 * @see org.springframework.instrument.classloading.InstrumentationLoadTimeWeaver
 */

public class InstrumentationSavingAgent {

    private static volatile Instrumentation instrumentation;

    /**
     * Save the {@link Instrumentation} interface exposed by the JVM.
     */
    public static void premain(String agentArgs, Instrumentation inst) {
        instrumentation = inst;
    }

    /**
     * Save the {@link Instrumentation} interface exposed by the JVM.
     * This method is required to dynamically load this Agent with the Attach API.
     */
    public static void InstrumentationSavingAgent {

        private static volatile Instrumentation instrumentation;
public static void agentmain(String agentArgs, Instrumentation inst) {
    instrumentation = inst;
}

/**
 * Return the {@link Instrumentation} interface exposed by the JVM.
 * <p>Note that this agent class will typically not be available in the classpath
 * unless the agent is actually specified on JVM startup. If you intend to do
 * conditional checking with respect to agent availability, consider using
 * {@link org.springframework.instrument.classloading.InstrumentationLoadTimeWeaver#getInstrumentation()}
 * instead - which will work without the agent class in the classpath as well.
 * @return the {@code Instrumentation} instance previously saved when
 * the {@link #premain} or { @link #agentmain} methods was called by the JVM;
 * will be { @code null} if this class was not used as Java agent when this
 * JVM was started or it wasn't installed as agent using the Attach API.
 * @see org.springframework.instrument.classloading.InstrumentationLoadTimeWeaver#getInstrumentation()
 */
public static Instrumentation getInstrumentation() {
    return instrumentation;
}

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 */
package org.springframework.jms.support;
import javax.jms.Connection;
import javax.jms.ConnectionFactory;
import javax.jms.JMSException;
import javax.jms.Session;
import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;
import org.springframework.beans.factory.InitializingBean;
import org.springframework.core.Constants;
import org.springframework.jms.JmsException;

/**
 * Base class for { @link org.springframework.jms.core.JmsTemplate } and other
 * JMS-accessing gateway helpers, defining common properties such as the
 * JMS { @link ConnectionFactory } to operate on. The subclass
 * { @link org.springframework.jms.support.destination.JmsDestinationAccessor }
 * adds further, destination-related properties.
 * <p>Not intended to be used directly.
 * See { @link org.springframework.jms.core.JmsTemplate }.
 * @author Juergen Hoeller
 * @since 1.2
 * @see org.springframework.jms.support.destination.JmsDestinationAccessor
 * @see org.springframework.jms.core.JmsTemplate
 */
public abstract class JmsAccessor implements InitializingBean {

/**
 * Constants instance for javax.jms.Session
 */
private static final Constants sessionConstants = new Constants(Session.class);

/** Logger available to subclasses */
protected final Log logger = LogFactory.getLog(getClass());
private ConnectionFactory connectionFactory;
private boolean sessionTransacted = false;
private int sessionAcknowledgeMode = Session.AUTO_ACKNOWLEDGE;

/**
 * Set the ConnectionFactory to use for obtaining JMS { @link Connection Connections }.
 */
public void setConnectionFactory(ConnectionFactory connectionFactory) {
    this.connectionFactory = connectionFactory;
}

public ConnectionFactory getConnectionFactory() {
    return this.connectionFactory;
}

/**
 * Set the session transacted state
 */
public void setSessionTransacted(boolean sessionTransacted) {
    this.sessionTransacted = sessionTransacted;
}

public boolean isSessionTransacted() {
    return this.sessionTransacted;
}

/**
 * Set the session acknowledge mode
 */
public void setSessionAcknowledgeMode(int sessionAcknowledgeMode) {
    this.sessionAcknowledgeMode = sessionAcknowledgeMode;
}

public int getSessionAcknowledgeMode() {
    return this.sessionAcknowledgeMode;
}

public abstract void send(String topic, String body);
public abstract void send(String topic, String body, String replyTo);
public abstract boolean isPubSub();

public abstract void sendToQueue(String queue, String body);
public abstract void sendToQueue(String queue, String body, String replyTo);
public abstract boolean isPubSub();

public abstract void sendToTopic(String topic, String body);
public abstract void sendToTopic(String topic, String body, String replyTo);
public abstract boolean isPubSub();

public abstract void publish(String topic, String body);
public abstract void publish(String topic, String body, String replyTo);
public abstract boolean isPubSub();

public abstract void receiveFromQueue(String queue, String body);
public abstract void receiveFromQueue(String queue, String body, String replyTo);
public abstract boolean isPubSub();

public abstract void receiveFromTopic(String topic, String body);
public abstract void receiveFromTopic(String topic, String body, String replyTo);
public abstract boolean isPubSub();

public abstract void subscribeToQueue(String queue, String body);
public abstract void subscribeToQueue(String queue, String body, String replyTo);
public abstract boolean isPubSub();

public abstract void subscribeToTopic(String topic, String body);
public abstract void subscribeToTopic(String topic, String body, String replyTo);
public abstract boolean isPubSub();

public abstract void unsubscribeFromQueue(String queue, String body);
public abstract void unsubscribeFromQueue(String queue, String body, String replyTo);
public abstract boolean isPubSub();

public abstract void unsubscribeFromTopic(String topic, String body);
public abstract void unsubscribeFromTopic(String topic, String body, String replyTo);
public abstract boolean isPubSub();

public abstract void close();

public void setConnectionFactory(ConnectionFactory connectionFactory) {
    this.connectionFactory = connectionFactory;
}

/**
 * Return the ConnectionFactory that this accessor uses for obtaining
 * JMS [@link Connection Connections].
 */
public ConnectionFactory getConnectionFactory() {
    return this.connectionFactory;
}

/**
 * Set the transaction mode that is used when creating a JMS [@link Session].
 * Default is "false".
 * <p>Note that within a JTA transaction, the parameters passed to
 * [@code create(Queue/Topic)Session(boolean transacted, int acknowledgeMode)]
 * method are not taken into account. Depending on the Java EE transaction context,
 * the container makes its own decisions on these values. Analogously, these
 * parameters are not taken into account within a locally managed transaction
 * either, since the accessor operates on an existing JMS Session in this case.
 * Setting this flag to "true" will use a short local JMS transaction
 * when running outside of a managed transaction, and a synchronized local
 * JMS transaction in case of a managed transaction (other than an XA
 * transaction) being present. This has the effect of a local JMS
 * transaction being managed alongside the main transaction (which might
 * be a native JDBC transaction), with the JMS transaction committing
 * right after the main transaction.
 * @see javax.jms.Connection#createSession(boolean, int)
 */
public void setSessionTransacted(boolean sessionTransacted) {
    this.sessionTransacted = sessionTransacted;
}

/**
 * Return whether the JMS [@link Session sessions] used by this
 * accessor are supposed to be transacted.
 * @see #setSessionTransacted(boolean)
 */
public boolean isSessionTransacted() {
    return this.sessionTransacted;
}

/**
 * Set the JMS acknowledgement mode by the name of the corresponding constant
 * in the JMS [@link Session] interface, e.g. "CLIENT_ACKNOWLEDGE".
 * If you want to use vendor-specific extensions to the acknowledgment mode,
 * use [@link #setSessionAcknowledgeMode(int)] instead.
 */
public void setSessionAcknowledgeModeName(String constantName) {
    setSessionAcknowledgeMode(sessionConstants.asNumber(constantName).intValue());
}

/**
 * Set the JMS acknowledgement mode that is used when creating a JMS
 *{@link Session} to send a message.
 *<p>Default is '{@link Session#AUTO_ACKNOWLEDGE}'.
 *<p>Note that inside an EJB, the parameters to the
 *{@code create(Queue/Topic)Session(boolean transacted, int acknowledgeMode)} method
 *are not taken into account. Depending on the transaction context in the EJB,
 *the container makes its own decisions on these values. See section 17.3.5
 *of the EJB spec.
 */
public void setSessionAcknowledgeMode(int sessionAcknowledgeMode) {
    this.sessionAcknowledgeMode = sessionAcknowledgeMode;
}

/**
 * Return the acknowledgement mode for JMS '{@link Session sessions}'.
 */
public int getSessionAcknowledgeMode() {
    return this.sessionAcknowledgeMode;
}

@Override
public void afterPropertiesSet() {
    if (getConnectionFactory() == null) {
        throw new IllegalArgumentException("Property \'connectionFactory\' is required");
    }
}

/**
 * Convert the specified checked '{@link javax.jms.JMSException JMSException JMSException}' to
 *a Spring runtime '{@link org.springframework.jms.JmsException JmsException}'
protected JmsException convertJmsAccessException(JMSException ex) {
    return JmsUtils.convertJmsAccessException(ex);
}
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1.1145 spring-loaded 1.2.1.RELEASE

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*/
package org.springsource.loaded.agent;

import java.beans.BeanInfo;
import java.beans.Introspector;
import java.lang.ref.Reference;
import java.lang.ref.ReferenceQueue;
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.
   *
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<? extends ThreadGroupContext> threadGroupContextClass;
    private Field threadGroupContext_contextsField; /* Map<ThreadGroup,ThreadGroupContext> */
    private Method threadGroupContext_removeBeanInfoMethod; /* removeBeanInfo(ThreadGroupContext) */

    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 (SecurityException e) {
                throw new IllegalStateException(e);
            } catch (IllegalArgumentException e) {
                throw new IllegalStateException(e);
            } catch (IllegalAccessException e) {
                throw new IllegalStateException(e);
            }
        } catch (ClassCastException e) {
            throw new ClassCastException("Caches should be a ConcurrentMAP");
        } catch (ClassCastException e) {
            throw new ClassCastException("Caches should be a ConcurrentMAP");
        }
    }

    //private static class Caches {
    //    /** cache mapping local classes -> descriptors */
    //    static final ConcurrentMap<WeakClassKey,Reference<?>> localDescs =

```java
@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);
    // } finally {
    // }
```
if (map != null) {
  if (GlobalConfiguration.debugplugins) {
    System.err.println("JVMPlugin: clearing out BeanInfo for " + clazz.getName());
  }
  map.remove(clazz);
}

// for (sun.awt.AppContext appcontext: appcontexts) {
  // map = (Map<Class<?>, BeanInfo>) appcontext.get(key);
  // if (map != null) {
  //   if (GlobalConfiguration.debugplugins) {
  //     System.err.println("JVMPlugin: clearing out BeanInfo for " + clazz.getName());
  //   }
  //   map.remove(clazz);
  // }

  // Introspector.flushFromCaches(clazz);
  // catch (NoSuchFieldException nsfe) {
  //   // this can happen on Java7 as the field isn't there any more, see the code above.
  //   System.out.println("Reloading: JVMPlugin: warning: unable to clear BEANINFO_CACHE, cant find field");
  //   catch (Exception e) {
  //     e.printStackTrace();
  //   }
  // }

  // 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);
    }
    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) {
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
            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 = r.getClass().getDeclaredField("value");
                } else {
                  valueField = r.getClass().getDeclaredField("value");
                }
              }
            } else {
              valueField = r.getClass().getDeclaredField("value");
            }
          }
        }
      }
    }
  } catch (Exception e) {
    e.printStackTrace();
  }
}
valueField.setAccessible(true);
Object threadGroupContext = valueField.get(r);
threadGroupContext_removeBeanInfoMethod.setAccessible(true);
threadGroupContext_removeBeanInfoMethod.invoke(threadGroupContext, clazz);
}
}
}
beanInfoCacheCleared = true;
}
}
}
}  catch (Throwable t) {
System.err.println("Unexpected problem clearing ThreadGroupContext beaninfo: ");
t.printStackTrace();
}
return beanInfoCacheCleared;
}

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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import java.lang.reflect.Field;
import java.lang.reflect.Method;
import java.security.ProtectionDomain;
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...
* <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 redraw
* detectHandlers() on the DefaultAnnotationHandlerMapping type which will rediscover the URL mappings and add them into the handler
* list. We don't clear old ones out (yet) but the old mappings appear not to work anyway.
* </ul>
* @author Andy Clement
* @since 0.5.0
*/

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") ||
    (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) {
        //
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);
        } catch (Exception e) {
            log.log(Level.SEVERE, "Unexpectedly cannot remove parameter from parameterNamesCache");
        }
    }
```
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) {
                    // catch(NoSuchFieldException e) {
                }
            }

            if (declaredMethodsCacheField != null) {
                try {
                    declaredMethodsCacheField = reflectionUtilsClass.getDeclaredField("declaredMethodsCache");
                } catch (NoSuchFieldException e) {
                    // 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");
                }
            }
            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<?> clazz_AbstractDetectingUrlHandlerMapping = o.getClass().getSuperclass();
Method method_detectHandlers =
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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*/

package org.springframework.oxm;

import java.lang.reflect.Type;

/**  
 * Subinterface of {@link Marshaller} that has support for Java 5 generics.  
 * @author Arjen Poutsma  
 * @since 3.0.1  
 */
public interface GenericMarshaller extends Marshaller {

/**  
 * Indicates whether this marshaller can marshal instances of the supplied generic type.  
 * @param genericType the type that this marshaller is being asked if it can marshal  
 * @return {@code true} if this marshaller can indeed marshal instances of the supplied type;  
 * {@code false} otherwise  
 */
boolean supports(Type genericType);

}

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1.1155 Spring-security-core 3.0.5.RELEASE

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<li><a href="/security/">Security</a></li>
<li><a href="http://status.apache.org/">Status</a></li>
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<li><a href="https://blogs.apache.org/foundation/">Announcements</a></li>
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1.1158 spring-test 3.2.10.RELEASE

1.1159 spring-tx 3.0.0.RELEASE

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import java.io.IOException;
import java.util.ArrayList;
import java.util.Collections;
import java.util.Enumeration;
import java.util.Iterator;
import java.util.LinkedList;
import java.util.List;
import java.util.Map;
import java.util.Properties;
import javax.portlet.ActionRequest;
import javax.portlet.ActionEvent;
import javax.portlet.EventRequest;
import javax.portlet.EventResponse;
import javax.portlet.MimeResponse;
import javax.portlet.PortletException;
import javax.portlet.PortletRequest;
import javax.portlet.PortletRequestDispatcher;
import javax.portlet.PortletSession;
import javax.portlet.RenderRequest;

package org.springframework.web.portlet;

1.1171 spring-webmvc-portlet 4.3.7.RELEASE
1.1171.1 Available under license :

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 */
import javax.portlet.RenderResponse;
import javax.portlet.ResourceRequest;
import javax.portlet.ResourceResponse;
import javax.portlet.StateAwareResponse;

import org.apache.commons.logging.Log;
import org.apache.commons.logging.LogFactory;

import org.springframework.beans.factory.BeanFactoryUtils;
import org.springframework.beans.factory.BeanInitializationException;
import org.springframework.beans.factory.NoSuchBeanDefinitionException;
import org.springframework.context.ApplicationContext;
import org.springframework.core.annotation.AnnotationAwareOrderComparator;
import org.springframework.core.io.ClassPathResource;
import org.springframework.core.io.support.PropertiesLoaderUtils;
import org.springframework.core.style.StylerUtils;
import org.springframework.util.ClassUtils;
import org.springframework.util.StringUtils;
import org.springframework.web.multipart.MultipartException;
import org.springframework.web.portlet.multipart.MultipartActionRequest;
import org.springframework.web.portlet.multipart.PortletMultipartResolver;
import org.springframework.web.servlet.View;
import org.springframework.web.servlet.ViewRendererServlet;
import org.springframework.web.servlet.ViewResolver;

/**
* Central dispatcher for use within the Portlet MVC framework, e.g. for web UI
* controllers. Dispatches to registered handlers for processing a portlet request.
* <p>This portlet is very flexible: It can be used with just about any workflow,
* with the installation of the appropriate adapter classes. It offers the following
* functionality that distinguishes it from other request-driven Portlet MVC frameworks:
* <ul>
* <li>It is based around a JavaBeans configuration mechanism.
* <li>It can use any {@link HandlerMapping} implementation - pre-built or provided
* as part of an application - to control the routing of requests to handler objects.
* Default is a {@link org.springframework.web.portlet.mvc.annotation.DefaultAnnotationHandlerMapping}.
* HandlerMapping objects can be defined as beans in the portlet's application context,
* implementing the HandlerMapping interface, overriding the default HandlerMapping
* if present. HandlerMappings can be given any bean name (they are tested by type).
* <li>It can use any {@link HandlerAdapter}; this allows for using any handler interface.
* The default adapter is {@link org.springframework.web.portlet.mvc.SimpleControllerHandlerAdapter}
* A default {@link org.springframework.web.servlet.mvc.annotation.AnnotationMethodHandlerAdapter}
* will be registered as well. HandlerAdapter objects can be added as beans in the
application context, overriding the default HandlerAdapter. Like HandlerMappings, HandlerAdapters can be given any bean name (they are tested by type).

The dispatcher's exception resolution strategy can be specified via a [HandlerExceptionResolver], for example mapping certain exceptions to error pages. Default is none. Additional HandlerExceptionResolvers can be added through the application context. HandlerExceptionResolver can be given any bean name (they are tested by type).

Its view resolution strategy can be specified via a ViewResolver implementation, resolving symbolic view names into View objects. Default is [InternalResourceViewResolver]. ViewResolver objects can be added as beans in the application context, overriding the default ViewResolver. ViewResolvers can be given any bean name (they are tested by type).

The dispatcher's strategy for resolving multipart requests is determined by a MultipartResolver implementation. An implementations for Apache Commons FileUpload is included: [CommonsPortletMultipartResolver]. The MultipartResolver bean name is "portletMultipartResolver"; default is none.

NOTE: The @RequestMapping annotation will only be processed if a corresponding @HandlerMapping (for type-level annotations) and/or @HandlerAdapter (for method-level annotations) is present in the dispatcher. This is the case by default. However, if you are defining custom @HandlerMappings or @HandlerAdapters, then you need to make sure that a corresponding custom @DefaultAnnotationHandlerMapping and/or @AnnotationMethodHandlerAdapter is defined as well - provided that you intend to use @RequestMapping.

A web application can define any number of DispatcherPortlets. Each portlet will operate in its own namespace, loading its own application context with mappings, handlers, etc. Only the root application context as loaded by ContextLoaderListener, if any, will be shared.

Thanks to Rainer Schmitz, Nick Lothian and Eric Dalquist for their suggestions!

* @author William G. Thompson, Jr.
* @author John A. Lewis
* @author Juergen Hoeller
* @since 2.0
* @see org.springframework.web.portlet.mvc.Controller
* @see org.springframework.web.servlet.ViewRendererServlet
* @see org.springframework.web.context.ContextLoaderListener

Public class DispatcherPortlet extends FrameworkPortlet {
/**
 * Well-known name for the PortletMultipartResolver object in the bean factory for this namespace.
 */
public static final String MULTIPART_RESOLVER_BEAN_NAME = "portletMultipartResolver";

/**
 * Well-known name for the HandlerMapping object in the bean factory for this namespace.
 * Only used when "detectAllHandlerMappings" is turned off.
 * @see #setDetectAllViewResolvers
 */
public static final String HANDLER_MAPPING_BEAN_NAME = "handlerMapping";

/**
 * Well-known name for the HandlerAdapter object in the bean factory for this namespace.
 * Only used when "detectAllHandlerAdapters" is turned off.
 * @see #setDetectAllHandlerAdapters
 */
public static final String HANDLER_ADAPTER_BEAN_NAME = "handlerAdapter";

/**
 * Well-known name for the HandlerExceptionResolver object in the bean factory for this
 * namespace. Only used when "detectAllHandlerExceptionResolvers" is turned off.
 * @see #setDetectAllViewResolvers
 */
public static final String HANDLER_EXCEPTION_RESOLVER_BEAN_NAME = "handlerExceptionResolver";

/**
 * Well-known name for the ViewResolver object in the bean factory for this namespace.
 */
public static final String VIEW_RESOLVER_BEAN_NAME = "viewResolver";

/**
 * Default URL to ViewRendererServlet. This bridge servlet is used to convert
 * portlet render requests to servlet requests in order to leverage the view support
 * in the { @code org.springframework.web.view } package.
 */
public static final String DEFAULT_VIEW_RENDERER_URL = "/WEB-INF/servlet/view";

/**
 * Unlike the Servlet version of this class, we have to deal with the
 * two-phase nature of the portlet request. To do this, we need to pass
 * forward any exception that occurs during the action phase, so that
 * it can be displayed in the render phase. The only direct way to pass
 * things forward and preserve them for each render request is through
 * render parameters, but these are limited to String objects and we need
 * to pass the Exception itself. The only other way to do this is in the
 * session. The bad thing about using the session is that we have no way
 * of knowing when we are done re-rendering the request and so we don't
* know when we can remove the objects from the session. So we will end
* up polluting the session with an old exception when we finally leave
* the render phase of one request and move on to something else.
*/

public static final String ACTION_EXCEPTION_SESSION_ATTRIBUTE =
    DispatcherPortlet.class.getName() + ".ACTION_EXCEPTION";

/**
 * This render parameter is used to indicate forward to the render phase
 * that an exception occurred during the action phase.
 */

public static final String ACTION_EXCEPTION_RENDER_PARAMETER = "actionException";

/**
 * Log category to use when no mapped handler is found for a request.
 */

public static final String PAGE_NOT_FOUND_LOG_CATEGORY =
    "org.springframework.web.portlet.PageNotFound";

/**
 * Name of the class path resource (relative to the DispatcherPortlet class)
 * that defines DispatcherPortlet's default strategy names.
 */

private static final String DEFAULT_STRATEGIES_PATH = "DispatcherPortlet.properties";

/**
 * Additional logger to use when no mapped handler is found for a request.
 */

protected static final Log pageNotFoundLogger = LogFactory.getLog(PAGE_NOT_FOUND_LOG_CATEGORY);

private static final Properties defaultStrategies;

static {
    // Load default strategy implementations from properties file.
    // This is currently strictly internal and not meant to be customized
    // by application developers.
    try {
        ClassPathResource resource = new ClassPathResource(DEFAULT_STRATEGIES_PATH, DispatcherPortlet.class);
        defaultStrategies = PropertiesLoaderUtils.loadProperties(resource);
    }
    catch (IOException ex) {
        throw new IllegalStateException("Could not load 'DispatcherPortlet.properties': "+ex.getMessage());
    }
}

/** Detect all HandlerMappings or just expect "handlerMapping" bean? */
private boolean detectAllHandlerMappings = true;

/** Detect all HandlerAdapters or just expect "handlerAdapter" bean? */
private boolean detectAllHandlerAdapters = true;

/** Detect all HandlerExceptionResolvers or just expect "handlerExceptionResolver" bean? */
private boolean detectAllHandlerExceptionResolvers = true;

/** Detect all ViewResolvers or just expect "viewResolver" bean? */
private boolean detectAllViewResolvers = true;

/** Whether exceptions thrown during doAction should be forwarded to doRender */
private boolean forwardActionException = true;

/** Whether exceptions thrown during doEvent should be forwarded to doRender */
private boolean forwardEventException = false;

/** URL that points to the ViewRendererServlet */
private String viewRendererUrl = DEFAULT_VIEW_RENDERER_URL;

/** MultipartResolver used by this portlet */
private PortletMultipartResolver multipartResolver;

/** List of HandlerMappings used by this portlet */
private List<HandlerMapping> handlerMappings;

/** List of HandlerAdapters used by this portlet */
private List<HandlerAdapter> handlerAdapters;

/** List of HandlerExceptionResolvers used by this portlet */
private List<HandlerExceptionResolver> handlerExceptionResolvers;

/** List of ViewResolvers used by this portlet */
private List<ViewResolver> viewResolvers;

/**
 * Set whether to detect all HandlerMapping beans in this portlet's context.
 * Else, just a single bean with name "handlerMapping" will be expected.
 * Default is true. Turn this off if you want this portlet to use a
 * single HandlerMapping, despite multiple HandlerMapping beans being
 * defined in the context.
 */
public void setDetectAllHandlerMappings(boolean detectAllHandlerMappings) {
    this.detectAllHandlerMappings = detectAllHandlerMappings;
}
/**
 * Set whether to detect all HandlerAdapter beans in this portlet's context.
 * Else, just a single bean with name "handlerAdapter" will be expected.
 * @param detectAllHandlerAdapters whether to detect all HandlerAdapter beans.
 */
public void setDetectAllHandlerAdapters(boolean detectAllHandlerAdapters) {
    this.detectAllHandlerAdapters = detectAllHandlerAdapters;
}

/**
 * Set whether to detect all HandlerExceptionResolver beans in this portlet's context.
 * Else, just a single bean with name "handlerExceptionResolver" will be expected.
 * @param detectAllHandlerExceptionResolvers whether to detect all HandlerExceptionResolver beans.
 */
public void setDetectAllHandlerExceptionResolvers(boolean detectAllHandlerExceptionResolvers) {
    this.detectAllHandlerExceptionResolvers = detectAllHandlerExceptionResolvers;
}

/**
 * Set whether to detect all ViewResolver beans in this portlet's context.
 * Else, just a single bean with name "viewResolver" will be expected.
 * @param detectAllViewResolvers whether to detect all ViewResolver beans.
 */
public void setDetectAllViewResolvers(boolean detectAllViewResolvers) {
    this.detectAllViewResolvers = detectAllViewResolvers;
}

/**
 * Set whether to forward exceptions thrown during the action phase
 * to the render phase via a session attribute.
 * @param forwardActionException whether to forward action exceptions.
 */
public void setForwardActionException(boolean forwardActionException) {
    this.forwardActionException = forwardActionException;
}

/**
 * Set whether to forward exceptions thrown during the event phase
 * to the render phase via a session attribute.
 * @param forwardEventException whether to forward event exceptions.
 */
public void setForwardEventException(boolean forwardEventException) {
    this.forwardEventException = forwardEventException;
}
* to forward the exception to the render phase, similar to what it does
* for [ @link #setForwardActionException action exceptions] by default.
*/
public void setForwardEventException(boolean forwardEventException) {
  this.forwardEventException = forwardEventException;
}

/**
 * Set the URL to the ViewRendererServlet. That servlet is used to
 * ultimately render all views in the portlet application.
 */
public void setViewRendererUrl(String viewRendererUrl) {
  this.viewRendererUrl = viewRendererUrl;
}

/**
 * This implementation calls [ @link #initStrategies].
 */
@Override
public void onRefresh(ApplicationContext context) {
  initStrategies(context);
}

/**
 * Refresh the strategy objects that this portlet uses.
 * <p>May be overridden in subclasses in order to initialize
 * further strategy objects.
 */
protected void initStrategies(ApplicationContext context) {
  initMultipartResolver(context);
  initHandlerMappings(context);
  initHandlerAdapters(context);
  initHandlerExceptionResolvers(context);
  initViewResolvers(context);
}

/**
 * Initialize the PortletMultipartResolver used by this class.
 * <p>If no valid bean is defined with the given name in the BeanFactory
 * for this namespace, no multipart handling is provided.
 */
private void initMultipartResolver(ApplicationContext context) {
  try {
    this.multipartResolver = context.getBean(MULTIPART_RESOLVER_BEAN_NAME,
                           PortletMultipartResolver.class);
    if (logger.isDebugEnabled()) {
      logger.debug("Using MultipartResolver "+ this.multipartResolver + "]");
    }
catch (NoSuchBeanDefinitionException ex) {
// Default is no multipart resolver.
this.multipartResolver = null;
if (logger.isDebugEnabled()) {
logger.debug("Unable to locate PortletMultipartResolver with name "+
MULTIPART_RESOLVER_BEAN_NAME + ": no multipart request handling provided");
}
}

/**
 * Initialize the HandlerMappings used by this class.
 * <p> If no HandlerMapping beans are defined in the BeanFactory
 * for this namespace, we default to PortletModeHandlerMapping.
 * *
 */
private void initHandlerMappings(ApplicationContext context) {
this.handlerMappings = null;

if (this.detectAllHandlerMappings) {
// Find all HandlerMappings in the ApplicationContext, including ancestor contexts.
Map<String, HandlerMapping> matchingBeans = BeanFactoryUtils.beansOfTypeIncludingAncestors(
context, HandlerMapping.class, true, false);
if (!matchingBeans.isEmpty()) {
this.handlerMappings = new ArrayList<HandlerMapping>(matchingBeans.values());
// We keep HandlerMappings in sorted order.
AnnotationAwareOrderComparator.sort(this.handlerMappings);
}
else {
try {
HandlerMapping hm = context.getBean(HANDLER_MAPPING_BEAN_NAME, HandlerMapping.class);
this.handlerMappings = Collections.singletonList(hm);
}

catch (NoSuchBeanDefinitionException ex) {
// Ignore, we'll add a default HandlerMapping later.
}

// Ensure we have at least one HandlerMapping, by registering
// a default HandlerMapping if no other mappings are found.
if (this.handlerMappings == null) {
this.handlerMappings = getDefaultStrategies(context, HandlerMapping.class);
if (logger.isDebugEnabled()) {
logger.debug("No HandlerMappings found in portlet "+getPortletName()+": using default");
}
private void initHandlerAdapters(ApplicationContext context) {
    this.handlerAdapters = null;

    if (this.detectAllHandlerAdapters) {
        // Find all HandlerAdapters in the ApplicationContext, including ancestor contexts.
        Map<String, HandlerAdapter> matchingBeans = BeanFactoryUtils.beansOfTypeIncludingAncestors(context, HandlerAdapter.class, true, false);
        if (!matchingBeans.isEmpty()) {
            this.handlerAdapters = new ArrayList<HandlerAdapter>(matchingBeans.values());
            // We keep HandlerAdapters in sorted order.
            AnnotationAwareOrderComparator.sort(this.handlerAdapters);
        }
    }
    else {
        try {
            HandlerAdapter ha = context.getBean(HANDLER_ADAPTER_BEAN_NAME, HandlerAdapter.class);
            this.handlerAdapters = Collections.singletonList(ha);
        }
        catch (NoSuchBeanDefinitionException ex) {
            // Ignore, we'll add a default HandlerAdapter later.
        }
    }

    // Ensure we have at least some HandlerAdapters, by registering
    // default HandlerAdapters if no other adapters are found.
    if (this.handlerAdapters == null) {
        this.handlerAdapters = getDefaultStrategies(context, HandlerAdapter.class);
        if (logger.isDebugEnabled()) {
            logger.debug("No HandlerAdapters found in portlet "+ getPortletName() + ": using default");
        }
    }
}

/**
 * Initialize the HandlerAdapters used by this class.
 *<p>If no HandlerAdapter beans are defined in the BeanFactory
 *for this namespace, we default to SimpleControllerHandlerAdapter.
 */
private void initHandlerExceptionResolvers(ApplicationContext context) {
    this.handlerExceptionResolvers = null;

    // Ensure we have at least some HandlerExceptionResolvers, by registering
    // default HandlerExceptionResolvers if no other resolvers are found.
    if (this.handlerExceptionResolvers == null) {
        this.handlerExceptionResolvers = getDefaultStrategies(context, HandlerExceptionResolver.class);
        if (logger.isDebugEnabled()) {
            logger.debug("No HandlerExceptionResolvers found in portlet "+ getPortletName() + ": using default");
        }
    }
}
if (this.detectAllHandlerExceptionResolvers) {
// Find all HandlerExceptionResolvers in the ApplicationContext, including ancestor contexts.
Map<String, HandlerExceptionResolver> matchingBeans = BeanFactoryUtils.beansOfTypeIncludingAncestors(
    context, HandlerExceptionResolver.class, true, false);
if (!matchingBeans.isEmpty()) {
    this.handlerExceptionResolvers = new ArrayList<HandlerExceptionResolver>(matchingBeans.values());
    // We keep HandlerExceptionResolvers in sorted order.
    AnnotationAwareOrderComparator.sort(this.handlerExceptionResolvers);
    }
else {
    try {
        HandlerExceptionResolver her = context.getBean(
            HANDLER_EXCEPTION_RESOLVER_BEAN_NAME, HandlerExceptionResolver.class);
        this.handlerExceptionResolvers = Collections.singletonList(her);
    }
    catch (NoSuchBeanDefinitionException ex) {
        // Ignore, no HandlerExceptionResolver is fine too.
    }
}
}

// Just for consistency, check for default HandlerExceptionResolvers...
// There aren't any in usual scenarios.
if (this.handlerExceptionResolvers == null) {
    this.handlerExceptionResolvers = getDefaultStrategies(context, HandlerExceptionResolver.class);
    if (logger.isDebugEnabled()) {
        logger.debug("No HandlerExceptionResolvers found in portlet "+ getPortletName() + ": using default");
    }
}

/**
 * Initialize the ViewResolvers used by this class.
 * <p>If no ViewResolver beans are defined in the BeanFactory
 * for this namespace, we default to InternalResourceViewResolver.
 */
private void initViewResolvers(ApplicationContext context) {
    this.viewResolvers = null;

    if (this.detectAllViewResolvers) {
        // Find all ViewResolvers in the ApplicationContext, including ancestor contexts.
        Map<String, ViewResolver> matchingBeans = BeanFactoryUtils.beansOfTypeIncludingAncestors(
            context, ViewResolver.class, true, false);
        if (!matchingBeans.isEmpty()) {
            this.viewResolvers = new ArrayList<ViewResolver>(matchingBeans.values());
            // We keep ViewResolvers in sorted order.
            AnnotationAwareOrderComparator.sort(this.viewResolvers);
        } else {
            try {
                ViewResolver vr = context.getBean(
                    VIEW_RESOLVER_BEAN_NAME, ViewResolver.class);
                this.viewResolvers = Collections.singletonList(vr);
            }
            catch (NoSuchBeanDefinitionException ex) {
                // Ignore, no ViewResolver is fine too.
            }
        }
    }
}
ViewResolver vr = context.getBean(VIEW_RESOLVER_BEAN_NAME, ViewResolver.class);
this.viewResolvers = Collections.singletonList(vr);
}
catch (NoSuchBeanDefinitionException ex) {
// Ignore, we'll add a default ViewResolver later.
}
}

// Ensure we have at least one ViewResolver, by registering
// a default ViewResolver if no other resolvers are found.
if (this.viewResolvers == null) {
this.viewResolvers = getDefaultStrategies(context, ViewResolver.class);
if (logger.isDebugEnabled()) {
logger.debug("No ViewResolvers found in portlet "+ getPortletName()+ ": using default");
}
}

/**
 * Return the default strategy object for the given strategy interface.
 * The default implementation delegates to { @link getDefaultStrategies },
 * expecting a single object in the list.
 * @param context the current Portlet ApplicationContext
 * @param strategyInterface the strategy interface
 * @return the corresponding strategy object
 * @see #getDefaultStrategies
 */
protected <T> T getDefaultStrategy(ApplicationContext context, Class<T> strategyInterface) {
List<T> strategies = getDefaultStrategies(context, strategyInterface);
if (strategies.size() != 1) {
throw new BeanInitializationException("DispatcherPortlet needs exactly 1 strategy for interface ["+ strategyInterface.getName()+ "]");
}
return strategies.get(0);
}

/**
 * Create a List of default strategy objects for the given strategy interface.
 * The default implementation uses the "DispatcherPortlet.properties" file
 * (in the same package as the DispatcherPortlet class) to determine the class names.
 * It instantiates the strategy objects and satisfies ApplicationContextAware
 * if necessary.
 * @param context the current Portlet ApplicationContext
 */
* @param strategyInterface the strategy interface
* @return the List of corresponding strategy objects
*/
@SuppressWarnings("unchecked")
protected <T> List<T> getDefaultStrategies(ApplicationContext context, Class<T> strategyInterface) {
    String key = strategyInterface.getName();
    String value = defaultStrategies.getProperty(key);
    if (value != null) {
        String[] classNames = StringUtils.commaDelimitedListToStringArray(value);
        List<T> strategies = new ArrayList<T>(classNames.length);
        for (String className : classNames) {
            try {
                Class<?> clazz = ClassUtils.forName(className, DispatcherPortlet.class.getClassLoader());
                Object strategy = createDefaultStrategy(context, clazz);
                strategies.add((T) strategy);
            }
            catch (ClassNotFoundException ex) {
                throw new BeanInitializationException("Could not find DispatcherPortlet's default strategy class "+ className + " for interface "+ key + ",", ex);
            }
            catch (LinkageError err) {
                throw new BeanInitializationException("Error loading DispatcherPortlet's default strategy class "+ className + " for interface "+ key + ": problem with class file or dependent class", err);
            }
        }
        return strategies;
    }
    else {
        return new LinkedList<T>();
    }
}
/**
 * Obtain this portlet's PortletMultipartResolver, if any.
 * @return the PortletMultipartResolver used by this portlet, or null if none (indicating that no multipart support is available)
 */
public PortletMultipartFileResolver getMultipartResolver() {
    return this.multipartResolver;
}

/**
 * Processes the actual dispatching to the handler for action requests.
 * <p>The handler will be obtained by applying the portlet's HandlerMappings in order.
 * The HandlerAdapter will be obtained by querying the portlet's installed HandlerAdapters to find the first that supports the handler class.
 * @param request current portlet action request
 * @param response current portlet Action response
 * @throws Exception in case of any kind of processing failure
 */
@override
protected void doActionService(ActionRequest request, ActionResponse response) throws Exception {
    if (logger.isDebugEnabled()) {
        logger.debug("DispatcherPortlet with name '" + getPortletName() + "' received action request");
    }

    ActionRequest processedRequest = request;
    HandlerExecutionChain mappedHandler = null;
    int interceptorIndex = -1;

    try {
        processedRequest = checkMultipart(request);

        // Determine handler for the current request.
        mappedHandler = getHandler(processedRequest);
        if (mappedHandler == null || mappedHandler.getHandler() == null) {
            noHandlerFound(processedRequest, response);
            return;
        }

        // Apply preHandle methods of registered interceptors.
        HandlerInterceptor[] interceptors = mappedHandler.getInterceptors();
        if (interceptors != null) {
            for (int i = 0; i < interceptors.length; i++) {
                HandlerInterceptor interceptor = interceptors[i];
                if (!interceptor.preHandleAction(processedRequest, response, mappedHandler.getHandler())) {
                    triggerAfterActionCompletion(mappedHandler, interceptorIndex, processedRequest, response, null);
                    return;
                }
            }
        }
    }
}
interceptorIndex = i;

// Actually invoke the handler.
HandlerAdapter ha = getHandlerAdapter(mappedHandler.getHandler());
ha.handleAction(processedRequest, response, mappedHandler.getHandler());

// Trigger after-completion for successful outcome.
triggerAfterActionCompletion(mappedHandler, interceptorIndex, processedRequest, response, null);

catch (Exception ex) {
    // Trigger after-completion for thrown exception.
    triggerAfterActionCompletion(mappedHandler, interceptorIndex, processedRequest, response, ex);
    // Forward the exception to the render phase to be displayed.
    if (this.forwardActionException) {
        try {
            exposeActionException(request, response, ex);
            logger.debug("Caught exception during action phase - forwarding to render phase", ex);
        }
        catch (IllegalStateException ex2) {
            // Probably sendRedirect called... need to rethrow exception immediately.
            throw ex;
        }
    }
    else {
        throw ex;
    }
}

catch (Throwable err) {
    PortletException ex =
    new PortletException("Error occurred during request processing: " + err.getMessage(), err);
    // Trigger after-completion for thrown exception.
    triggerAfterActionCompletion(mappedHandler, interceptorIndex, processedRequest, response, ex);
    throw ex;
}

finally {
    // Clean up any resources used by a multipart request.
    if (processedRequest instanceof MultipartActionRequest && processedRequest != request) {
        this.multipartResolver.cleanupMultipart((MultipartActionRequest) processedRequest);
    }
}

/**
 * Processes the actual dispatching to the handler for render requests.
 */
* The handler will be obtained by applying the portlet’s HandlerMappings in order.
* The HandlerAdapter will be obtained by querying the portlet’s installed
* HandlerAdapters to find the first that supports the handler class.
* @param request current portlet render request
* @param response current portlet render response
* @throws Exception in case of any kind of processing failure
*/

@Override
protected void doRenderService(RenderRequest request, RenderResponse response) throws Exception {
  if (logger.isDebugEnabled()) {
    logger.debug("DispatcherPortlet with name "+ getPortletName() + " received render request");
  }

  HandlerExecutionChain mappedHandler = null;
  int interceptorIndex = -1;

  try {
    ModelAndView mv;
    try {
      // Determine handler for the current request.
      mappedHandler = getHandler(request);
      if (mappedHandler == null || mappedHandler.getHandler() == null) {
        noHandlerFound(request, response);
        return;
      }
      // Apply preHandle methods of registered interceptors.
      HandlerInterceptor[] interceptors = mappedHandler.getInterceptors();
      if (interceptors != null) {
        for (int i = 0; i < interceptors.length; i++) {
          HandlerInterceptor interceptor = interceptors[i];
          if (!interceptor.preHandleRender(request, response, mappedHandler.getHandler())) {
            triggerAfterRenderCompletion(mappedHandler, interceptorIndex, request, response, null);
            return;
          }
          interceptorIndex = i;
        }
      }
      // Check for forwarded exception from the action phase
      PortletSession session = request.getPortletSession(false);
      if (session != null) {
        if (request.getParameter(ACTION_EXCEPTION_RENDER_PARAMETER) != null) {
          Exception ex = (Exception) session.getAttribute(ACTION_EXCEPTION_SESSION_ATTRIBUTE);
          if (ex != null) {
            logger.debug("Render phase found exception caught during action phase - rethrowing it");
            throw ex;
          }
        }
      }
    }
  }
}
else {
    session.removeAttribute(ACTION_EXCEPTION_SESSION_ATTRIBUTE);
}

// Actually invoke the handler.
HandlerAdapter ha = getHandlerAdapter(mappedHandler.getHandler());
mv = ha.handleRender(request, response, mappedHandler.getHandler());

// Apply postHandle methods of registered interceptors.
if (interceptors != null) {
    for (int i = interceptors.length - 1; i >= 0; i--) {
        HandlerInterceptor interceptor = interceptors[i];
        interceptor.postHandleRender(request, response, mappedHandler.getHandler(), mv);
    }
}

} catch (ModelAndViewDefiningException ex) {
    logger.debug("ModelAndViewDefiningException encountered", ex);
    mv = ex.getModelAndView();
} catch (Exception ex) {
    Object handler = (mappedHandler != null ? mappedHandler.getHandler() : null);
    mv = processHandlerException(request, response, handler, ex);
}

// Did the handler return a view to render?
if (mv != null && !mv.isEmpty()) {
    render(mv, request, response);
} else {
    if (logger.isDebugEnabled()) {
        logger.debug("Null ModelAndView returned to DispatcherPortlet with name " +
                      getPortletName() + ": assuming HandlerAdapter completed request handling");
    }
}

// Trigger after-completion for successful outcome.
triggerAfterRenderCompletion(mappedHandler, interceptorIndex, request, response, null);

} catch (Exception ex) {
    // Trigger after-completion for thrown exception.
    triggerAfterRenderCompletion(mappedHandler, interceptorIndex, request, response, ex);
    throw ex;
} catch (Throwable err) {

PortletException ex =
new PortletException("Error occurred during request processing: " + err.getMessage(), err);
// Trigger after-completion for thrown exception.
triggerAfterRenderCompletion(mappedHandler, interceptorIndex, request, response, ex);
throw ex;
}

/**
 * Processes the actual dispatching to the handler for resource requests.
 * <p>The handler will be obtained by applying the portlet's HandlerMappings in order.
 * The HandlerAdapter will be obtained by querying the portlet's installed
 * HandlerAdapters to find the first that supports the handler class.
 * @param request current portlet render request
 * @param response current portlet render response
 * @throws Exception in case of any kind of processing failure
 */
@Override
protected void doResourceService(ResourceRequest request, ResourceResponse response) throws Exception {
if (logger.isDebugEnabled()) {
logger.debug("DispatcherPortlet with name '" + getPortletName() + '" received resource request");
}

HandlerExecutionChain mappedHandler = null;
int interceptorIndex = -1;

try {
ModelAndView mv;
try {
// Determine handler for the current request.
mappedHandler = getHandler(request);
if (mappedHandler == null || mappedHandler.getHandler() == null) {
noHandlerFound(request, response);
return;
}

// Apply preHandle methods of registered interceptors.
HandlerInterceptor[] interceptors = mappedHandler.getInterceptors();
if (interceptors != null) {
for (int i = 0; i < interceptors.length; i++) {
HandlerInterceptor interceptor = interceptors[i];
if (!interceptor.preHandleResource(request, response, mappedHandler.getHandler())) {
triggerAfterResourceCompletion(mappedHandler, interceptorIndex, request, response, null);
return;
}
interceptorIndex = i;
}
}
// Actually invoke the handler.
HandlerAdapter ha = getHandlerAdapter(mappedHandler.getHandler());
mv = ha.handleResource(request, response, mappedHandler.getHandler());

// Apply postHandle methods of registered interceptors.
if (interceptors != null) {
    for (int i = interceptors.length - 1; i >= 0; i--) {
        HandlerInterceptor interceptor = interceptors[i];
        interceptor.postHandleResource(request, response, mappedHandler.getHandler(), mv);
    }
}

catch (ModelAndViewDefiningException ex) {
    logger.debug("ModelAndViewDefiningException encountered", ex);
    mv = ex.getModelAndView();
}

catch (Exception ex) {
    Object handler = (mappedHandler != null ? mappedHandler.getHandler() : null);
    mv = processHandlerException(request, response, handler, ex);
}

// Did the handler return a view to render?
if (mv != null && !mv.isEmpty()) {
    render(mv, request, response);
} else {
    if (logger.isDebugEnabled()) {
        logger.debug("Null ModelAndView returned to DispatcherPortlet with name '" +
                getPortletName() + ": assuming HandlerAdapter completed request handling");
    }
}

// Trigger after-completion for successful outcome.
triggerAfterResourceCompletion(mappedHandler, interceptorIndex, request, response, null);

// Trigger after-completion for thrown exception.
triggerAfterResourceCompletion(mappedHandler, interceptorIndex, request, response, ex);
throw ex;
/**
 * Processes the actual dispatching to the handler for event requests.
 * <p>The handler will be obtained by applying the portlet's HandlerMappings in order.
 * The HandlerAdapter will be obtained by querying the portlet's installed
 * HandlerAdapters to find the first that supports the handler class.
 * @param request current portlet action request
 * @param response current portlet Action response
 * @throws Exception in case of any kind of processing failure
 */
@Override
protected void doEventService(EventRequest request, EventResponse response) throws Exception {
    if (logger.isDebugEnabled()) {
        logger.debug("DispatcherPortlet with name '" + getPortletName() + '" received action request");
    }

    HandlerExecutionChain mappedHandler = null;
    int interceptorIndex = -1;

    try {
        // Determine handler for the current request.
        mappedHandler = getHandler(request);
        if (mappedHandler == null || mappedHandler.getHandler() == null) {
            noHandlerFound(request, response);
            return;
        }

        // Apply preHandle methods of registered interceptors.
        HandlerInterceptor[] interceptors = mappedHandler.getInterceptors();
        if (interceptors != null) {
            for (int i = 0; i < interceptors.length; i++) {
                HandlerInterceptor interceptor = interceptors[i];
                if (!interceptor.preHandleEvent(request, response, mappedHandler.getHandler())) {
                    triggerAfterEventCompletion(mappedHandler, interceptorIndex, request, response, null);
                    return;
                }
                interceptorIndex = i;
            }
        }

        // Actually invoke the handler.
        HandlerAdapter ha = getHandlerAdapter(mappedHandler.getHandler());
        ha.handleEvent(request, response, mappedHandler.getHandler());

        // Trigger after-completion for successful outcome.
        triggerAfterEventCompletion(mappedHandler, interceptorIndex, request, response, null);
    }
}
catch (Exception ex) {
    // Trigger after-completion for thrown exception.
    triggerAfterEventCompletion(mappedHandler, interceptorIndex, request, response, ex);
    // Forward the exception to the render phase to be displayed.
    if (this.forwardEventException) {
        try {
            exposeActionException(request, response, ex);
            logger.debug("Caught exception during event phase - forwarding to render phase", ex);
        }
        catch (IllegalStateException ex2) {
            // Probably sendRedirect called... need to rethrow exception immediately.
            throw ex;
        }
    }
    else {
        throw ex;
    }
}
catch (Throwable err) {
    PortletException ex =
        new PortletException("Error occured during request processing: " + err.getMessage(), err);
    // Trigger after-completion for thrown exception.
    triggerAfterEventCompletion(mappedHandler, interceptorIndex, request, response, ex);
    throw ex;
}

/**
 * Convert the request into a multipart request, and make multipart resolver available.
 * If no multipart resolver is set, simply use the existing request.
 * @param request current HTTP request
 * @return the processed request (multipart wrapper if necessary)
 */
protected ActionRequest checkMultipart(ActionRequest request) throws MultipartException {
    if (this.multipartResolver != null && this.multipartResolver.isMultipart(request)) {
        if (request instanceof MultipartActionRequest) {
            logger.debug("Request is already a MultipartActionRequest - probably in a forward");
        }
    }
    else {
        return this.multipartResolver.resolveMultipart(request);
    }
    // If not returned before: return original request.
    return request;
}
/**
 * Return the HandlerExecutionChain for this request.
 * Try all handler mappings in order.
 * @param request current portlet request
 * @return the HandlerExecutionChain, or null if no handler could be found
 */
protected HandlerExecutionChain getHandler(PortletRequest request) throws Exception {
  for (HandlerMapping hm : this.handlerMappings) {
    if (logger.isDebugEnabled()) {
      logger.debug("Testing handler map [" + hm + "] in DispatcherPortlet with name "+ getPortletName() + "");
    }
    HandlerExecutionChain handler = hm.getHandler(request);
    if (handler != null) {
      return handler;
    }
  }
  return null;
}

/**
 * No handler found -> throw appropriate exception.
 * @param request current portlet request
 * @param response current portlet response
 * @throws Exception if preparing the response failed
 */
protected void noHandlerFound(PortletRequest request, PortletResponse response) throws Exception {
  if (pageNotFoundLogger.isWarnEnabled()) {
    pageNotFoundLogger.warn("No handler found for current request " +
    "in DispatcherPortlet with name "+ getPortletName() +
    ", mode "+ request.getPortletMode() +
    ", phase "+ request.getAttribute(PortletRequest.LIFECYCLE_PHASE) +
    ", parameters " + StylerUtils.style(request.getParameterMap()));
  }
  throw new NoHandlerFoundException("No handler found for portlet request", request);
}

/**
 * Return the HandlerAdapter for this handler object.
 * @param handler the handler object to find an adapter for
 * @throws PortletException if no HandlerAdapter can be found for the handler.
 * This is a fatal error.
 */
protected HandlerAdapter getHandlerAdapter(Object handler) throws PortletException {
  for (HandlerAdapter ha : this.handlerAdapters) {
    if (logger.isDebugEnabled()) {
      logger.debug("Testing handler adapter [" + ha + "]");
    }
    return null;
  }
  return null;
}
if (ha.supports(handler)) {
    return ha;
}

throw new PortletException("No adapter for handler [" + handler + "]: Does your handler implement a supported interface like Controller?");

/**
 * Expose the given action exception to the given response.
 * @param request current portlet request
 * @param response current portlet response
 * @param ex the action exception (may also come from an event phase)
 */
protected void exposeActionException(PortletRequest request, StateAwareResponse response, Exception ex) {
    // Copy all parameters unless overridden in the action handler.
    Enumeration<String> paramNames = request.getParameterNames();
    while (paramNames.hasMoreElements()) {
        String paramName = paramNames.nextElement();
        String[] paramValues = request.getParameterValues(paramName);
        if (paramValues != null && !response.getRenderParameterMap().containsKey(paramName)) {
            response.setRenderParameter(paramName, paramValues);
        }
    }
    response.setRenderParameter(ACTION_EXCEPTION_RENDER_PARAMETER, ex.toString());
    request.getPortletSession().setAttribute(ACTION_EXCEPTION_SESSION_ATTRIBUTE, ex);
}

/**
 * Render the given ModelAndView. This is the last stage in handling a request.
 * It may involve resolving the view by name.
 * @param mv the ModelAndView to render
 * @param request current portlet render request
 * @param response current portlet render response
 * @throws Exception if there's a problem rendering the view
 */
protected void render(ModelAndView mv, PortletRequest request, MimeResponse response) throws Exception {
    View view;
    if (mv.isReference()) {
        // We need to resolve the view name.
        view = resolveViewName(mv.getViewName(), mv.getModelInternal(), request);
        if (view == null) {
            throw new PortletException("Could not resolve view with name " + mv.getViewName() + "+ portlet with name " + getPortletName() + "");
        }
    }
}
else {
    // No need to lookup: the ModelAndView object contains the actual View object.
    Object viewObject = mv.getView();
    if (viewObject == null) {
        throw new PortletException("ModelAndView [" + mv + "] neither contains a view name nor a " + "View object in portlet with name ", getPortletName() + "]");
    }
    if (!viewObject instanceof View) {
        throw new PortletException("View object [" + viewObject + "] is not an instance of [org.springframework.web.servlet.View] - " + "DispatcherPortlet does not support any other view types");
    }
    view = (View) viewObject;
}

// Set the content type on the response if needed and if possible.
// The Portlet spec requires the content type to be set on the RenderResponse;
// it's not sufficient to let the View set it on the ServletResponse.
if (response.getContentType() != null) {
    if (logger.isDebugEnabled()) {
        logger.debug("Portlet response content type already set to [" + response.getContentType() + "]");
    }
}
else {
    // No Portlet content type specified yet -> use the view-determined type.
    String contentType = view.getContentType();
    if (contentType != null) {
        if (logger.isDebugEnabled()) {
            logger.debug("Setting portlet response content type to view-determined type [" + contentType + "]");
        }
        response.setContentType(contentType);
    }
}

doRender(view, mv.getModelInternal(), request, response);

/**
 * Resolve the given view name into a View object (to be rendered).
 * Default implementations asks all ViewResolvers of this dispatcher.
 * Can be overridden for custom resolution strategies, potentially based
 * on specific model attributes or request parameters.
 * @param viewName the name of the view to resolve
 * @param model the model to be passed to the view
 * @param request current portlet render request
 * @return the View object, or null if none found
 * @throws Exception if the view cannot be resolved
 * (typically in case of problems creating an actual View object)
* @see ViewResolver#resolveViewName
*/
protected View resolveViewName(String viewName, Map<String, ?> model, PortletRequest request) throws Exception {
    for (ViewResolver viewResolver : this.viewResolvers) {
        View view = viewResolver.resolveViewName(viewName, request.getLocale());
        if (view != null) {
            return view;
        }
    }
    return null;
}

/**
 * Actually render the given view.
 * <p>The default implementation delegates to
 * <ul><li>{@link org.springframework.web.servlet.ViewRendererServlet}</li></ul>
 * @param view the View to render
 * @param model the associated model
 * @param request current portlet render/resource request
 * @param response current portlet render/resource response
 * @throws Exception if there's a problem rendering the view
 */
protected void doRender(View view, Map<String, ?> model, PortletRequest request, MimeResponse response) throws Exception {
    // Expose Portlet ApplicationContext to view objects.
    request.setAttribute(ViewRendererServlet.WEB_APPLICATION_CONTEXT_ATTRIBUTE, getPortletApplicationContext());
    // These attributes are required by the ViewRendererServlet.
    request.setAttribute(ViewRendererServlet.VIEW_ATTRIBUTE, view);
    request.setAttribute(ViewRendererServlet.MODEL_ATTRIBUTE, model);
    // Include the content of the view in the render/resource response.
    doDispatch(getPortletContext().getRequestDispatcher(this.viewRendererUrl), request, response);
}

/**
 * Perform a dispatch on the given PortletRequestDispatcher.
 * <p>The default implementation uses a forward for resource requests
 * and an include for render requests.
 * @param dispatcher the PortletRequestDispatcher to use
 * @param request current portlet render/resource request
 * @param response current portlet render/resource response
 * @throws Exception if there's a problem performing the dispatch
 */
protected void doDispatch(PortletRequestDispatcher dispatcher, PortletRequest request, MimeResponse response) throws Exception {
    // Expose Portlet ApplicationContext to view objects.
    request.setAttribute(ViewRendererServlet.WEB_APPLICATION_CONTEXT_ATTRIBUTE, getPortletApplicationContext());
    // These attributes are required by the ViewRendererServlet.
    request.setAttribute(ViewRendererServlet.VIEW_ATTRIBUTE, view);
    request.setAttribute(ViewRendererServlet.MODEL_ATTRIBUTE, model);
    // Include the content of the view in the render/resource response.
    doDispatch(getPortletContext().getRequestDispatcher(this.viewRendererUrl), request, response);
}
// In general, we prefer a forward for resource responses, in order to have full Servlet API
// support in the target resource (e.g. on uPortal). However, on Liferay, a resource forward
// displays an empty page, so we have to resort to an include there...
if (PortletRequest.RESOURCE_PHASE.equals(request.getAttribute(PortletRequest.LIFECYCLE_PHASE)) &&
!dispatcher.getClass().getName().startsWith("com.liferay")) {
    dispatcher.forward(request, response);
} else {
    dispatcher.include(request, response);
}

/**
 * Determine an error ModelAndView via the registered HandlerExceptionResolvers.
 * @param request current portlet request
 * @param response current portlet response
 * @param handler the executed handler, or null if none chosen at the time of
 * the exception (for example, if multipart resolution failed)
 * @param ex the exception that got thrown during handler execution
 * @return a corresponding ModelAndView to forward to
 * @throws Exception if no error ModelAndView found
 */
protected ModelAndView processHandlerException(RenderRequest request, RenderResponse response, Object handler, Exception ex) throws Exception {
    ModelAndView exMv = null;
    for (Iterator<HandlerExceptionResolver> it = this.handlerExceptionResolvers.iterator(); exMv == null && it.hasNext()) {
        HandlerExceptionResolver resolver = it.next();
        exMv = resolver.resolveException(request, response, handler, ex);
    }
    if (exMv != null) {
        if (logger.isDebugEnabled()) {
            logger.debug("HandlerExceptionResolver returned ModelAndView [" + exMv + "] for exception");
        }
        logger.warn("Handler execution resulted in exception - forwarding to resolved error view", ex);
        return exMv;
    } else {
        throw ex;
    }
}

/**
 * Determine an error ModelAndView via the registered HandlerExceptionResolvers.
 */
@param request current portlet request
@param response current portlet response
@param handler the executed handler, or null if none chosen at the time of
the exception (for example, if multipart resolution failed)
@param ex the exception that got thrown during handler execution
@return a corresponding ModelAndView to forward to
@throws Exception if no error ModelAndView found
*/
protected ModelAndView processHandlerException(
    ResourceRequest request, ResourceResponse response, Object handler, Exception ex)
throws Exception {
    ModelAndView exMv = null;
    for (Iterator<HandlerExceptionResolver> it = this.handlerExceptionResolvers.iterator(); exMv == null &&
        it.hasNext();) {
        HandlerExceptionResolver resolver = it.next();
        exMv = resolver.resolveException(request, response, handler, ex);
    }
    if (exMv != null) {
        if (logger.isDebugEnabled()) {
            logger.debug("HandlerExceptionResolver returned ModelAndView [" + exMv + "] for exception");
        }
        logger.warn("Handler execution resulted in exception - forwarding to resolved error view", ex);
        return exMv;
    } else {
        throw ex;
    }
}

/**
   * Trigger afterCompletion callbacks on the mapped HandlerInterceptors.
   * Will just invoke afterCompletion for all interceptors whose preHandle
   * invocation has successfully completed and returned true.
   * @param mappedHandler the mapped HandlerExecutionChain
   * @param interceptorIndex index of last interceptor that successfully completed
   * @param ex Exception thrown on handler execution, or null if none
   * @see HandlerInterceptor#afterRenderCompletion
   */
private void triggerAfterActionCompletion(HandlerExecutionChain mappedHandler, int interceptorIndex,
    ActionRequest request, ActionResponse response, Exception ex)
throws Exception {
    // Apply afterCompletion methods of registered interceptors.
    if (mappedHandler != null) {
        HandlerInterceptor[] interceptors = mappedHandler.getInterceptors();
        if (interceptors != null) {
            for (int i = interceptorIndex; i >= 0; i--) {
                interceptors[i].afterCompletion(request, response, null);
            }
        } else {
            throw new IllegalArgumentException("null HandlerExecutionChain");
        }
    } else {
        throw new IllegalArgumentException("null HandlerExecutionChain");
    }
}
HandlerInterceptor interceptor = interceptors[i];
try {
    interceptor.afterActionCompletion(request, response, mappedHandler.getHandler(), ex);
} catch (Throwable ex2) {
    logger.error("HandlerInterceptor.afterCompletion threw exception", ex2);
}

/**
 * Trigger afterCompletion callbacks on the mapped HandlerInterceptors.
 * Will just invoke afterCompletion for all interceptors whose preHandle
 * invocation has successfully completed and returned true.
 * @param mappedHandler the mapped HandlerExecutionChain
 * @param interceptorIndex index of last interceptor that successfully completed
 * @param ex Exception thrown on handler execution, or null if none
 * @see HandlerInterceptor#afterRenderCompletion
 */
private void triggerAfterRenderCompletion(HandlerExecutionChain mappedHandler, int interceptorIndex,
    RenderRequest request, RenderResponse response, Exception ex)
    throws Exception {

    // Apply afterCompletion methods of registered interceptors.
    if (mappedHandler != null) {
        HandlerInterceptor[] interceptors = mappedHandler.getInterceptors();
        if (interceptors != null) {
            for (int i = interceptorIndex; i >= 0; i--) {
                HandlerInterceptor interceptor = interceptors[i];
                try {
                    interceptor.afterRenderCompletion(request, response, mappedHandler.getHandler(), ex);
                } catch (Throwable ex2) {
                    logger.error("HandlerInterceptor.afterCompletion threw exception", ex2);
                }
            }
        }
    }

    /**
     * Trigger afterCompletion callbacks on the mapped HandlerInterceptors.
     * Will just invoke afterCompletion for all interceptors whose preHandle
     * invocation has successfully completed and returned true.
     * @param mappedHandler the mapped HandlerExecutionChain
     * @param interceptorIndex index of last interceptor that successfully completed
     */
private void triggerAfterResourceCompletion(HandlerExecutionChain mappedHandler, int interceptorIndex, ResourceRequest request, ResourceResponse response, Exception ex) throws Exception {

    // Apply afterCompletion methods of registered interceptors.
    if (mappedHandler != null) {
        HandlerInterceptor[] interceptors = mappedHandler.getInterceptors();
        if (interceptors != null) {
            for (int i = interceptorIndex; i >= 0; i--) {
                HandlerInterceptor interceptor = interceptors[i];
                try {
                    interceptor.afterResourceCompletion(request, response, mappedHandler.getHandler(), ex);
                } catch (Throwable ex2) {
                    logger.error("HandlerInterceptor.afterCompletion threw exception", ex2);
                }
            }
        }
    }
}

private void triggerAfterEventCompletion(HandlerExecutionChain mappedHandler, int interceptorIndex, EventRequest request, EventResponse response, Exception ex) throws Exception {

    // Apply afterCompletion methods of registered interceptors.
    if (mappedHandler != null) {
        HandlerInterceptor[] interceptors = mappedHandler.getInterceptors();
        if (interceptors != null) {
            for (int i = interceptorIndex; i >= 0; i--) {
                HandlerInterceptor interceptor = interceptors[i];
                try {
                    interceptor.afterEventCompletion(request, response, mappedHandler.getHandler(), ex);
                } catch (Throwable ex2) {
                    logger.error("HandlerInterceptor.afterCompletion threw exception", ex2);
                }
            }
        }
    }
}
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JUnit test library (junit-3.8.1.jar)

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1.1196.1 Available under license :
The following list of people, sorted by last name, have contributed
code or patches to this implementation of sudo since I began
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Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Piete
Brown, Jerry
Burr, Michael E
Burton, Ross
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
ek, Vtzslav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Dai, Wei
Dill, David
Earickson, Jeff
Eckhardt, Drew
Edgington, Ben
Esipovich, Marc
Espie, Marc
Faigon, Ariel
Farrell, Brian
Fobes, Steve
Frysinger, Mike
G., Daniel Richard
Gailly, Jean-loup
Gelman, Stephen
Gerraty, Simon J.
Graber, Stephane
Guillory, B.
Hayman, Randy M.
Henke, Joachim
Hideaki, Yoshifuji
Hieb, Dave
Holloway, Nick
Hoover, Adam
Hunter, Michael T.
Hutchings, Ben
Irrgang, Eric
Jackson, Brian
Jackson, John R.
Jackson, Richard L., Jr.
Janssen, Mark
Jepeway, Chris
Jorge, Joel Pele
Juhani, Timo
Kikuchi, Ayamura
Kadow, Kevin
Kasal, Stepan
Kienenberger, Mike
King, Dale
King, Michael
Klyachkin, Andrey
Knoble, Jim
Knox, Tim
Komarnitsky, Alek O.
Kondrashov, Nikolai
Kopeek, Daniel
Kranenburg, Paul
Krause, David
Lakin, Eric
Larsen, Case
Levin, Dmitry V.
Libby, Kendall
Lobbes, Phillip E.
McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom
Makey, Jeff
Marchionna, Michael D.
Markham, Paul
Martinian, Emin
Meskes, Michael
Michael, David
Miller, Todd C.
Minier, Loc
Stritzky, Tilo
Stroucken, Michael
Tarrall, Robert
Thomas, Matthew
Todd, Giles
Toft, Martin
Torek, Chris
Tucker, Darren
Uhl, Robert
Uzel, Petr
Valery, Reznic
Van Dinter, Theo
Venckus, Martynas
de Vries, Maarten
Wagner, Klaus
Walsh, Dan
Warburton, John
Webb, Kirk
Wetzel, Timm
Wieringen, Marco van
Wilk, Jakub
Winiger, Gary
Wood, David
Zacarias, Gustavo
Zolnowsky, John

The following people have worked to translate sudo into other languages:

Blittermann, Mario
Bogusz, Jakub
Buo-ren, Lin
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
Diguez, Francisco
Fontenelle, Rafael
Garca-Fontes, Walter
Gezer, Volkan
Hamasaki, Takeshi
Hamming, Peter
Hansen, Joe
Hantrais, Frdric
Hein, Jochen
Hufthammer, Karl Ove
Jerovek, Damir
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Appendix: How to Apply These Terms to Your New Programs

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<one line to give the program's name and a brief idea of what it does.>
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The hypothetical commands `show w' and `show c' should show the appropriate
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school, if any, to sign a "copyright disclaimer" for the program, if
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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

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Public License instead of this License.

1.1198 systemd 219 :62.el7_6.6
1.1198.1 Available under license :

# coredumpctl(1) completion -*. shell-script -*.#
#
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#

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```bash
__contains_word () {
    local w word=$1; shift
    for w in "$@"; do
        [[ $w = "$word" ]] && return
    done
}

__journal_fields=(MESSAGE(_ID) PRIORITY CODE_(FILE,LINE,FUNC)
    ERRNO SYSLOG_(FACILITY,IDENTIFIER,PID) COREDUMP_EXE
    _[P,U,G]ID _COMM _EXE _CMDLINE
    _AUDIT_(SESSION,LOGINUID)
    _SYSTEMD_(CGROUP,SESSION,UNIT,OWNER_USERID)
    _SELINUX_CONTEXT _SOURCE_REALTIME_TIMESTAMP
    _[BOOT,MACHINE]_ID _HOSTNAME _TRANSPORT
    _KERNEL_(DEVICE,SUBSYSTEM)
    _UDEV_(SYSNAME,DEVNODE,DEVLINK)
    __CURSOR __{(REALTIME,MONOTONIC)_TIMESTAMP)
}

coredumpctl() {
    local i verb comps
    local cur=${COMP_WORDS[COMP_CWORD]} prev=${COMP_WORDS[COMP_CWORD-1]}
    local OPTS='-h --help --version --no-pager --no-legend -o --output -F --field -l'

    local -A VERBS=(
        [LIST]='list'
        [DUMP]='dump gdb'
    )

    if __contains_word "$prev" --output -o; then
        comps=$( compgen -A file -- "$cur" )
        compopt -o filenames
    elif __contains_word "$prev" --FIELD -F; then
        comps=$( compgen -W '${__journal_fields[*]}*' -- "$cur" )
    elif [[ $cur = -* ]]; then
        comps=${OPTS}
    elif __contains_word "$prev" '${VERBS[*]}' &&
        ! __contains_word $ COMP_WORDS[COMP_CWORD-2] '-output -o -F --field'; then
        compopt -o nospace
        COMPREPLY=( $(compgen -W '${__journal_fields[*]}'* -S= -- "$cur") )
        return 0
    elif [[ $cur = *=* ]]; then
        mapfile -t field_vals < <(coredumpctl -F "$prev%=" 2>/dev/null)
        COMPREPLY=( $(compgen -W '${field_vals[*]}*' -- "$cur#="" ) )
        return 0
    elif [[ $prev = '='* ]]; then
        mapfile -t field_vals < <(coredumpctl -F "${COMP_WORDS[COMP_CWORD-2]}" 2>/dev/null)
```
comps=${field_vals[*]}

else
    for ((i=0; i <= COMP_CWORD; i++)); do
        if __contains_word "${COMP_WORDS[i]}" ${VERBS[*]}; then
            verb=${COMP_WORDS[i]}
            break
        fi
    done

    if [[ -z $verb ]]; then
        comps=${VERBS[*]}
    elif __contains_word "$verb" ${VERBS[LIST]} ${VERBS[DUMP]}; then
        comps=""
    fi
fi

COMPREPLY=( $(compgen -W '$comps' -- "$cur") )
return 0
}

complete -F _coredumpctl coredumpctl

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Version 2.1, February 1999

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The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
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Mark       Tucker                    (mtucker@fiji.sidefx.com)
*/

/*
* config.h -- configure various defines for tcsh
*
* All source files should #include this FIRST.
*
* Edit this to match your system type.
*
*/

#ifndef _h_config
#define _h_config

/****************** System dependant compilation flags ******************/

/*
* POSIXThis system supports IEEE Std 1003.1-1988 (POSIX).
*/
#endif POSIX

/*
* POSIXJOBSThis system supports the optional IEEE Std 1003.1-1988 (POSIX)
* job control facilities.
*/
#endif POSIXJOBS
/*
 * VFORK This machine has a vfork().
 * It used to be that for job control to work, this define
 * was mandatory. This is not the case any more.
 * If you think you still need it, but you don't have vfork,
 * define this anyway and then do #define vfork fork.
 * I do this anyway on a Sun because of yellow pages brain damage,
 * [should not be needed under 4.1]
 * and on the iris4d cause SGI's fork is sufficiently "virtual"
 * that vfork isn't necessary. (Besides, SGI's vfork is weird).
 * Note that some machines eg. rs6000 have a vfork, but not
 * with the berkeley semantics, so we cannot use it there either.
 */
#define VFORK

/*
 * BSDJOBS You have BSD-style job control (both process groups and
 * a tty that deals correctly
 */
#define BSDJOBS

/*
 * BSDTIMES You have BSD-style process time stuff (like rusage)
 * This may or may not be true. For example, Apple Unix
 * *(OREO) has BSDJOBS but not BSDTIMES.
 */
#define BSDTIMES

/*
 * BSDLIMIT You have BSD-style resource limit stuff (getrlimit/setrlimit)
 */
#define BSDLIMIT

/*
 * TERMIO You have struct termio instead of struct sgttyb.
 * This is usually the case for SYSV systems, where
 * BSD uses sgttyb. POSIX systems should define this
 * anyway, even though they use struct termios.
 */
#undef TERMIO

/*
 * SYSVREL Your machine is SYSV based (HPUX, A/UX)
 * NOTE: don't do this if you are on a Pyramid -- tsh is
 * built in a BSD universe.
 * Set SYSVREL to 1, 2, 3, or 4, depending the version of System V
 * you are running. Or set it to 0 if you are not SYSV based
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1.1210 teamd 1.27 : 5.el7

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1.1211 telemetry-agent-api 3.500.21
1.1212 telemetry-agent-framework 3.500.21

1.1213 telnet 0.17 :64.el7

1.1214 TelnetD 1.0
1.1214.1 Available under license :

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1.1216 TestNG 6.0

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1.1217 tftp 5.2 :22.el7

1.1218 tftp-server 5.2 :22.el7

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1.1219 time 1.7 :45.el7

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1.1228 tuned 2.10.0 :6.el7_6.3

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1.1229 txw2 2.3.1

1.1230 tzdata 2019a :1.el7
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The remaining code was written by many people associated with the
Info-ZIP group, with large contributions from (but not limited to):
Greg Roelofs (overall program logic, ZipInfo, unshrink, filename
mapping/portability, etc.), Mark Adler (inflate, explode, funzip),
Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine
Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows
DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and
others. See the file CONTRIBS in the source distribution for a much
more complete list of contributors.
The decompression core code for the deflate method (infla te.[ch],
explode.c) was originally written by Mark Adler who submitted it
as public domain code.

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

1.1233 usermode 1.111 :5.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
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
2d8e8df51a88a045db233418dd73fbe 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
__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    fstype    [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):
-------------------

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    [fsize bsize 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

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1.1238 velocity-dep 1.4 :36836540

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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:

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Bram@iccf-holland.org

For amounts above 400 Euro ($500) sending a check is preferred.
Others: Transfer to one of these accounts if possible:
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Swift code: INGB NL 2A
IBAN: NL95 INGB 0004 5487 74
under the name "stichting ICCF Holland", Lisse
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Finsterruethof 1
8134 Adliswil
Switzerland

This address is expected to be valid for a long time.

```
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  \\
```
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

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

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
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
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"
1.1240 virt-what 1.18 :4.el7

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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

```
[localrules=10]
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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<f20d86b70607200240x2a6f7b0as68da43b2ee6a56@mail.gmail.com>

editcap.c:
merge.c:
mergecap.c:
Wireshark terms, according to wireshark-dev@, message-id:
<c9a3e4540607210110v50758766wf272c4e6c74d48f3@mail.gmail.com>

epan/epan.c:
epan/exceptions.h:
epan/dfilter/gencode.h:
epan/dfilter/glib-util.c:
epan/dfilter/glib-util.h:
Contributed by Gilbert Ramirez, he has been contacted, his other files are
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epan/dissectors/packet-bootparams.h:
epan/dissectors/packet-mount.h:
epan/dissectors/packet-nfs.h:
epan/dissectors/packet-x11-keysym.h:
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<44C1EFA2.3050907@alum.mit.edu>
epan/in_cksum.h:
BSD, like in_cksum.c, according to wireshark-dev@, message-id:
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epan/dissectors/packet-diameter-defs.h:
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snprintf.h:
o longer used, according to wireshark-dev@, but it was under GPL like .c
message-id: <c9a3e4540607200322j2225fd8q8687b1b1fd13543a@mail.gmail.com>
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 *
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1.1282 xorg-x11-server-common 1.20.1 :5.3.el7_6

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1.1284 xorg-x11-utils 7.5 :23.el7

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1.1285 xorg-x11-xauth 1.0.9 :1.el7

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1.1287 xpp3_min 1.1.4c

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1.1290 xstream-1.4.4 1.4.4

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diff -up yum-3.4.3/yum/update_md.py.org yum-3.4.3/yum/update_md.py
--- yum-3.4.3/yum/update_md.py.org 2017-01-24 18:55:03.529842775 +0100
@@ -58,7 +58,7 @@ class UpdateNotice(object):
    def __init__(self, elem=None):
        self._md = {
            'from'             : '',
        } + self._repoid = repoid
@@ -83,6 +83,9 @@ class UpdateNotice(object):
            if elem:
                self._parse(elem)
+
+    self._repoid = repoid
self._vlogger = vlogger

def __getitem__(self, item):
    
    """ Allows scriptable metadata access (ie: un['update_id']). """
    if type(item) is int:

@@ -103,6 +106,24 @@ class UpdateNotice(object):
        # Tests to see if it's "the same data", which means that the
        # packages can be different (see add_notice).

+        def _rid(un):
+            if hasattr(un, '_repoid') and un._repoid is not None:
+                return un._repoid
+            else:
+                return '<unknown>'
+
+        def _log_failure(data):
+            
+            """Log the mismatched data similarly to conflict markers in git.""
+            if self._vlogger is None:
+                return
+            msg = _('Duplicate of %s differs in some fields:
')
+            msg += '<<<<<<< %s:%s
' % (_rid(other), data)
+            msg += '%r
=======
%r
' % (other._md[data], self._md[data])
+            msg += '>>>>>>> %s:%s' % (_rid(self), data)
+            # --verbose mode enables this
+            self._vlogger.log(logging.DEBUG_3, msg)
+
+    if not other or not hasattr(other, '_md'):
+        return False
+
@@ -113,6 +134,7 @@ class UpdateNotice(object):
        # FIXME: See below...
        continue
        if self._md[data] != other._md[data]:
+            _log_failure(data)
            return False

        # FIXME: Massive hack, Fedora is really broken and gives status=stable
        # and status=testing for updateinfo notices, just depending on which

@@ -120,8 +142,10 @@ class UpdateNotice(object):
        if data == 'status': # FIXME: See below...
            continue
        if self._md[data] != other._md[data]:
+            _log_failure(data)
            return False

            # FIXME: Massive hack, Fedora is really broken and gives status=stable
            # and status=testing for updateinfo notices, just depending on which
self._md[data] = 'stable'

@@ -574,7 +598,7 @@ class UpdateMetadata(object):
    for event, elem in safe_iterparse(infile, logger=self._logger):
        if elem.tag == 'update':
            try:
-                un = UpdateNotice(elem)
+                un = UpdateNotice(elem, repoid, self._vlogger)
            except UpdateNoticeException, e:
                msg = _("An update notice%s is broken, skipping.") % _rid(repoid)
            if self._vlogger:
@@ -587,6 +611,8 @@ class UpdateMetadata(object):
                msg = _("Update notice %s%s is broken, or a bad duplicate, skipping.") % (un['update_id'],
                                      _rid(repoid))
            if not have_dup:
                msg += _("You should report this problem to the owner of the %s repository.") % _rid(repoid,
                        "s")
+                msg += _("If you are the owner, consider re-running the same command with --verbose to see the 
+                'exact data that caused the conflict."")
                have_dup = True
            if self._vlogger:
                self._vlogger.warn("%s", msg)

diff --git a/yum/update_md.py b/yum/update_md.py
--- a/yum/update_md.py 2015-01-19 07:44:35.567107008 -0500
@@ -398,6 +399,9 @@ class UpdateMetadata(object):
 except Errors.RepoMDError:
     continue # No metadata found for this repo

+    self.arch_storage = ArchStorage()
+    self.archlist = self.arch_storage.archlist
+
    def get_notices(self, name=None):
        """ Return all notices. """
        if name is None:
@@ -434,16 +438,29 @@ class UpdateMetadata(object):
            name = oldpkgtup[0]
            arch = oldpkgtup[1]
            ret = []
+            other_arch_list = []
+            notices = set()
        for notice in self.get_notices(name):
            for upkg in notice['pkglist']:
                for pkg in upkg['packages']:
                    other_arch = False
                        if pkg['name'] != name or pkg['arch'] != arch:
                            continue
+                        if (notice not in notices and pkg['name'] == name and pkg['arch'] in self.archlist):
+                            other_arch = True
+                            else:
+=
    continue
    pkgtup = (pkg['name'], pkg['arch'], pkg['epoch'] or '0',
    pkg['version'], pkg['release'])
    if _rpm_tup_vercmp(pkgtup, oldpkgtup) <= 0:
        continue
    -=
    ret.append((pkgtup, notice))
    +
    if other_arch:
        +
        other_arch_list.append((pkgtup, notice))
        +
        else:
        +
        ret.append((pkgtup, notice))
        +
        notices.add(notice)
        +
        for pkgtup, notice in other_arch_list:
            +
            if notice not in notices:
                ret.append((pkgtup, notice))
                ret.sort(cmp=_rpm_tup_vercmp, key=lambda x: x[0], reverse=True)
        return ret

diff -up yum-3.4.3/yum/update_md.py.old yum-3.4.3/yum/update_md.py
+++ yum-3.4.3/yum/update_md.py 2015-05-28 19:24:05.971806965 +0200
@@ -33,6 +33,7 @@ import Errors
    import logginglevels
    import rpmUtils.miscutils
    +from rpmUtils.arch import ArchStorage

    def safe_iterparse(filename, logger=None):

1.1296 yum-metadata-parser 1.1.4 :10.el7
1.1296.1 Available under license :
    From RPM File Metadata:GPLv2

1.1297 yum-utils 1.1.31 :50.el7
1.1297.1 Available under license :
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