Open Source Used In  Cisco Identity Services Engine 2.3

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1.2 abdera-extensions-json 0.4.0-incubating

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1.8 Activation 1.1

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Aleksander Slominski

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- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
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1.29 apache-log4j-extras 1.2.17

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1.30 apache-mime4j 0.6

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\@c End:
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# license.test --- test license functionality
#
# Author:            Bruce Korb <bkorb@gnu.org>
##
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struct stat sb;
char* file;
size_t sz;
FILE* fp;

file = *++argv;
fp = fopen(file, "a");
if (fp == NULL) return 1;
if (stat(file, &sb) != 0) return 1;
sz = 0x2000 - (sb.st_size & 0x1FFFUL);
while (sz > 0) {putc( '\n', fp ); sz--; }
fclose(fp);

file = *++argv;
fp = fopen(file, "r+");
if (fp == NULL) return 1;
if (stat(file, &sb) != 0) return 1;
fsseek(fp, offset, SEEK_END);
sz = 0x2000 - (sb.st_size & 0x1FFFUL);
while (sz > 0) {putc( '\n', fp ); sz--; }
fputs(z_tail, fp);
fclose(fp);

return 0; }
_EOF_

Csrc=${testname}-extend
compile

./${testname}-extend ${testname}.lic ${testname}.tpl ||
failure "Could not extend license/template files to 8KB"
lst -l ${testname}.???

# # # # # # # # # # EXPECTED OUTPUT FILE # # # # # # # #
set -x
echo creating ${testname}.out
# this is the output we should expect to see
cat > ${testname}.out <<_EOF_
/*
*  This is a bogus license granted by Auto-Gen for ${testname}.
*  Use it in good health
*/
_EOF_

run_ag x -b ${testname} --no-def -T ${testname}.tpl ||
failure autogen failed
cmp -s ${testname}.test ${testname}.out || failure unexpected output
cleanup

## Local Variables:
## mode: shell-script
## indent-tabs-mode: nil
## sh-indentation: 2
## sh-basic-offset: 2
## End:

# end of license.test

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Version 3, 29 June 2007

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1.62 backbone-forms-list 0.11.0
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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. :-)

From mike@ora.com Tue Aug 1 12:13:20 1995
Flags: 10
Return-Path: mike@ora.com
Received: from ruby.ora.com (ruby.ora.com [198.112.208.25]) by odin.INS.CWRU.Edu with ESMTP (8.6.12+cwrn/CWRU-2.1-ins)
id MAA01565; Tue, 1 Aug 1995 12:13:18 -0400 (from mike@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)
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).

------

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;
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

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Version 3, 29 June 2007

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1.66 batik-ext 1.7

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

import java.awt.Point;
import java.awt.Rectangle;
import java.awt.image.ColorModel;
import java.awt.image.Raster;
import java.awt.image.RenderedImage;
import java.awt.image.SampleModel;
import java.awt.image.WritableRaster;
import java.util.Vector;
import java.util.List;
import java.util.ArrayList;
import java.util.Map;
import java.util.HashMap;

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

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

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

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

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

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

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

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

    /** The Y coordinate of the upper-left pixel (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 getMaxTileX() and getMinTileX() 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, null 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 null
   */
public Object getProperty(String name) {
    name = name.toLowerCase();
    return properties.get(name);
}

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

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

    prefix = prefix.toLowerCase();

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

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

    // Copy the strings from the Vector over to a String array.
    String[] prefixNames = new String[names.size()];
    //        int count = 0;
    //        for (Iterator it = names.iterator(); it.hasNext(); ) { // todo xx.toArray()
    //            prefixNames[count++] = (String)it.next();
    //        }
    names.toArray(prefixNames);

    return prefixNames;
}

// Utility methods.

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

public static int YToTileY(int y, int tileGridYOffset, int tileHeight) {
    y -= tileGridYOffset;
    if (y < 0) {
        y += 1 - tileHeight; // Force round to -infinity
    }
    return y/tileHeight;
}

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

public int XToTileX(int x) {
    return XToTileX(x, getTileGridXOffset(), getTileWidth());
}

/**
 * Converts a pixel's Y coordinate into a vertical tile index.
 * This is a convenience method. No attempt is made to detect
 * out-of-range coordinates.
 *
 * @param y the Y coordinate of a pixel.
 * @return the Y index of the tile containing the pixel.
 */

public int YToTileY(int y) {
    return YToTileY(y, getTileGridYOffset(), getTileHeight());
}

/**
 * Converts a horizontal tile index into the X coordinate of its
 * upper left pixel relative to a given tile grid layout specified
 * by its X offset and tile width.
 */

public static int tileXToX(int tx, int tileGridXOffset, int tileWidth) {
    return tx*tileWidth + tileGridXOffset;
}

/**
 * Converts a horizontal tile index into the X coordinate of its
 * upper left pixel relative to a given tile grid layout specified
 * by its X offset and tile width.
 */

public int XToTileX(int x, int tileGridXOffset, int tileWidth) {
    return XToTileX(x, getTileGridXOffset(), getTileWidth());
}

/**
 * Converts a horizontal tile index into the X coordinate of its
 * upper left pixel relative to a given tile grid layout specified
 * by its X offset and tile width.
 */

public static int tileXToX(int tx, int tileGridXOffset, int tileWidth) {
    return tx*tileWidth + tileGridXOffset;
}

/**
 * Converts a horizontal tile index into the X coordinate of its
 * upper left pixel relative to a given tile grid layout specified
 * by its X offset and tile width.
 */

public int XToTileX(int x, int tileGridXOffset, int tileWidth) {
    return XToTileX(x, getTileGridXOffset(), getTileWidth());
}

/**
 * Converts a horizontal tile index into the X coordinate of its
 * upper left pixel relative to a given tile grid layout specified
 * by its X offset and tile width.
 */

public static int tileXToX(int tx, int tileGridXOffset, int tileWidth) {
    return tx*tileWidth + tileGridXOffset;
}

/**
 * Converts a horizontal tile index into the X coordinate of its
 * upper left pixel relative to a given tile grid layout specified
 * by its X offset and tile width.
 */

public int XToTileX(int x, int tileGridXOffset, int tileWidth) {
    return XToTileX(x, getTileGridXOffset(), getTileWidth());
}

/**
 * Converts a horizontal tile index into the X coordinate of its
 * upper left pixel relative to a given tile grid layout specified
 * by its X offset and tile width.
 */

public static int tileXToX(int tx, int tileGridXOffset, int tileWidth) {
    return tx*tileWidth + tileGridXOffset;
}

/**
 * Converts a horizontal tile index into the X coordinate of its
 * upper left pixel relative to a given tile grid layout specified
 * by its X offset and tile width.
 */

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

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

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

public Vector getSources() {
    return null;
}

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

/**
* Returns an arbitrary rectangular region of the RenderedImage
* in a Raster. The rectangle of interest will be clipped against
* the image bounds.
*<p>The returned Raster is semantically a copy. This means
* that updates to the source image will not be reflected in the
* returned Raster. For non-writable (immutable) source images,
* the returned value may be a reference to the image's internal
* data. The returned Raster should be considered non-writable;
* any attempt to alter its pixel data (such as by casting it to
* WritableRaster or obtaining and modifying its DataBuffer) may
* result in undefined behavior. The copyData method should be
* used if the returned Raster is to be modified.
* @param bounds the region of the RenderedImage to be returned.
*/
public Raster getData(Rectangle bounds) {
    int startX = XToTileX(bounds.x);
    int startY = YToTileY(bounds.y);
    int endX = XToTileX(bounds.x + bounds.width - 1);
    int endY = YToTileY(bounds.y + bounds.height - 1);
    Raster tile;
    if ((startX == endX) && (startY == endY)) {
        tile = getTile(startX, startY);
        return tile.createChild(bounds.x, bounds.y,
        bounds.width, bounds.height,
        bounds.x, bounds.y, null);
    } else {
        // Create a WritableRaster of the desired size
        SampleModel sm =
        sampleModel.createCompatibleSampleModel(bounds.width,
        bounds.height);

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

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

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

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

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

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

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

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

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

    /** The ImageEncodeParam object associcted 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 JPEGDecodeParam.
 */
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> asscociated 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.  
     */
    public ImageDecoderImpl(InputStream input,
                              ImageDecodeParam param) {
        this.input = input;
        this.param = param;
    }
}
construct a `ForwardSeekableStream`; if the ability to seek backwards is required, the caller should construct an instance of `SeekableStream` and make use of the other constructor.

```
public ImageDecoderImpl(InputStream input, ImageDecodeParam param) {
    this.input = new ForwardSeekableStream(input);
    this.param = param;
}
```

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

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

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

```
/**
 * Returns the number of pages present in the current stream.
 * By default, the return value is 1. Subclasses that deal with
```
public int getNumPages() throws IOException {
    return 1;
}

public Raster decodeAsRaster() throws IOException {
    return decodeAsRaster(0);
}

public Raster decodeAsRaster(int page) throws IOException {
    RenderedImage im = decodeAsRenderedImage(page);
    return im.getData();
}

public RenderedImage decodeAsRenderedImage() throws IOException {
    return decodeAsRenderedImage(0);
}

public RenderedImage decodeAsRenderedImage() throws IOException {
    return decodeAsRenderedImage(0);
}

* multi-page formats should override this method.
*/

//
* @param page The page to be decoded.
*/
public abstract RenderedImage decodeAsRenderedImage(int page)
        throws IOException;
}

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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 3a0982da308228d796df35f98d787c5c92bb5b6.

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

1.76 binutils 2.23.52.0.1 :55.el7

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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.

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.

@item
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.

@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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excuse you from the conditions of this License. If you cannot
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License and any other pertinent obligations, then as a consequence you
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license would not permit royalty-free redistribution of the Library by
all those who receive copies directly or indirectly through you, then
the only way you could satisfy both it and this License would be to
refrain entirely from distribution of the Library.
If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

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Item
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decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

@end enumerate

@end iftex

@end info

@end page

@appendixsubsec How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

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

@example
@var{one line to give the library's name and an idea of what it does.}
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.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

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:

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

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

That's all there is to it!

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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
Preamble

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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.
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.

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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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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 things:

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

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

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

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

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

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

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

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

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

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining
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++++++++++++++++

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 m68[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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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

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

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

Some other contributors:

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

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(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.)
This package was debianized by Vladimir Prus <ghost@cs.msu.su> on

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Aleksey Gurtovoy (agurtovoy@meta-comm.com)
Andrei Alexandrescu (andrewalex - at - hotmail.com) (See Boost list message of August 12, 2004 11:06:58 AM
EST)
Andrew Lumsdaine ()
Anthony Williams (anthony -at- justsoftwaresolutions.co.uk)
Beman Dawes (bdawes@acm.org)
Brad King (brad.king -at- kitware.com) (See Boost list message of Wed, 21 Jul 2004 11:15:46 -0400)
Brian Osman (osman -at- vvisions.com) (See CVS log)
Bruce Barr (schmoost -at- yahoo.com) (See Boost list of Mon, 16 Aug 2004 15:06:43 -0500)
Bruno da Silva de Oliveira (bruno - at - esss.com.br)
Christain Engstrom (christian.engstrom -at- glindra.org) (See Boost list message of Mon, 30 Aug 2004 14:31:49 +0200)
Cromwell D Enage (sponage -at- yahoo.com) (See Boost list message of August 12, 2004 11:49:13 AM EST)
Dan Gohman (dig -at- cray.com) (See Boost list messsage of Sat, 21 Aug 2004 10:54:59 +0100)
Dan Nuffer (dan -at- nuffer.name)
Daniel Frey (d.frey -at- gmx.de, daniel.frey -at- aixigo.de)
Daniel Nuffer (dan -at- nuffer.name)
Darin Adler (darin -at- bentspoon.com) (Email to Andreas Huber, see change log)
Daryle Walker (darylew - at - hotmail.com)
Dave Abrahams (dave@boost-consulting.com)
Dave Moore (dmoore -at- viefinancial.com) (See Boost list message of 18 Dec 2003 15:35:50 -0500)
David Abrahams (dave@boost-consulting.com)
Dietmar Kuehl (dietmar_kuehl -at- yahoo.com) (Email to Andreas Huber, see change log)
Douglas Gregor (gregod -at- cs.rpi.edu, dgregor -at- cs.indiana.edu, doug.gregor -at- gmail.com)
Dr John Maddock (john - at - johnmaddock.co.uk)
Edward D. Brey (brey -at- ductape.net) (Email to Andreas Huber, see change log)
Eric Ford (un506n902 -at- sneakemail.com) (See Boost list message of Sun, 15 Aug 2004 10:29:13 +0100)
Eric Friedman (ebf@users.sourceforge.net)
Eric Niebler (eric@boost-consulting.com)
Fernando Cacciola (fernando_cacciola@ciudad.com.ar)
Fernando Luis Cacciola Carballal (fernando_cacciola@ciudad.com.ar)
Francois Faure (Francois.Faure -at- imag.fr) (See CVS log)
Gary Powell (powellg - at - amazon.com) (See Boost list message of 10 Feb 2004 14:22:46 -0800)
Gennadiy Rozental (rogeeff -at- mail.com) (Email to Andreas Huber, see change log)
Gottfried Ganssauge (Gottfried.Ganssauge -at- HAUFE.DE) (See Boost List message of Mon, 16 Aug 2004 10:09:19 +0200)
Gottfried Ganauge (Gottfried.Ganssauge -at- HAUFE.DE) (Alternative spelling of Gottfried Ganssauge)
Greg Colvin (gregory.colvin -at- oracle.com) (See Boost list message of Sat, 14 Aug 2004 10:57:00 +0100)
Gregory Colvin (gregory.colvin -at- oracle.com) (See Boost list message of Sat, 14 Aug 2004 10:57:00 +0100)
Gunter Winkler (gunter.winkler -at- unibw-muenchen.de) (See Boost List message of Mon, 16 Aug 2004 10:24:17 +0200)
Hartmut Kaiser (hartmut.kaiser -at- gmail.com)
Herve Bronnimann (hbr -at- poly.edu)
Herv Brnnimann (hbr -at- poly.edu)
Housemarque Oy (Ilari Kuitinnen ilari.kuitinnen -at- housemarque.fi)
Howard Himnant (hinmanent -at- twcny.rr.com) (See Boost list message of July 25, 2004 3:44:49 PM EST)
Hubert Holin (hubert_holin -at- users.sourceforge.net)
Indiana University ()
Itay Maman (imaman -at- users.sourceforge.net)
Jaakko Jrv (jajarvi -at-osl.iu.edu)
Jaap Suter (j.suter -at- student.utwente.nl) (See Boost list message of Thu, 16 Sep 2004 09:32:43 -0700)
Jeff Garland (jeff - at - crystalclearsoftware.com) (see Boost list post of July 25, 2004 19:31:09 -0700)
Jens Maurer (Jens.Maurer@gmx.net)
Jeremy G Siek (jsiek@osl.iu.edu)
Jeremy Siek (jsiek@osl.iu.edu)
Joel de Guzman (joel -at- boost-consulting.com) (See Boost list message of July 25, 2004 8:32:00 PM EST)
John Bandela (jbandela-at-ufl.edu)
John Maddock (john - at - johnmaddock.co.uk)
John R Bandela (jbandela-at-ufl.edu)
Jonathan Turkanis (turkanis -at- coderage dot com)
Juergen Hunold (hunold -at- ive.uni-hannover.de) (See Boost List Message of Fri, 13 Aug 2004 19:39:55 +0200)
Kevlin Henney (kevlin -at- curbfalan.com) (See Boost list message of Wed, 15 Sep 2004 18:15:17 +0200)
Kresimir Fresl (fresl -at- master.grad.hr) (See Boost List message of August 16, 2004 8:23:35 AM EST)
Lars Gullik Bjnnes (larsbj -at- lyx.org) (See Boost list message of Tue, 17 Aug 2004 15:49:02 +0100)
Lie-Quan Lee (liequan - at - slac.stanford.edu, lle - at - cs.indiana.edu)
Maarten Keijzer (mkeijzer -at- cs.vu.nl) (See Boost list message of Wed, 18 Aug 2004 21:43:18 +0100)
Mac Murrett (mmurrett -at- mac.com)
Marc Wintermantel (wintermantel -at- imes.mavt.ethz.ch, winternmantel -at- even-ag.ch) (See CVS log)
Michael Glassford (glassfordm - at - hotmail.com)
Michael Stevens (Michael.Stevens - at - epost.de)
Multi Media Ltd. (pdimov@mmltd.net)
Nicolai M Josuttis (solutions -at- josuttis.com) (See Boost list message of Mon, 30 Aug 2004 10:52:00 +0100)
Nikolay Mladenov (nickm -at- sitius.com) (See Boost list message of Tue, 17 Aug 2004 15:45:33 +0100)
Paul Mensonides (pmenso57 -at- comcast.net) (See Boost list message of July 21, 2004 1:12:21 AM EST)
Pavol Droba (droba -at- topmail.sk)
Peter Dimov (pdimov@mmltd.net)
R W Grosse-Kunstleve (RWGrosse-Kunstleve@lbl.gov)
Ralf W. Grosse-Kunstleve (RWGrosse-Kunstleve@lbl.gov)
Rational Discovery LLC (Greg Landrum Landrum -at- RationalDiscovery.com) (See Boost list post of Tue, 17 Aug 2004 10:35:36 +0100)
Rene Rivera (grafik/redshift-software.com, rrivera/acm.org)
Robert Ramey (ramey@www.rrsd.com)
Roland Richter (roland -at- llld.jku.at) (See Boost list post of Mon, 16 Aug 2004 22:16:55 +0200)
Roland Schwarz (roland.schwarz -at- chello.at)
Ronald Garcia (garcia -at- cs.indiana.edu) (Email to Andreas Huber, see change log)
Samuel Krempf (krempp -at- crans.ens-cachan.fr) (See Boost list message of Mon, 27 Sep 2004 13:18:36 +0200)
Stefan Seefeld (seefeld -at- sympatico.ca)
Stephen Cleary (scleary -at- jerviswebb.com) (See Boost list message of Tue, 28 Sep 2004 13:11:46 +0100)
Steve Cleary (Variant of Stephen Cleary)
Sylvain Pion (Sylvain.Pion - at - sophia.inria.fr)
The Trustees of Indiana University ()
Thomas Witt (witt - at - ive.uni-hannover.de, witt - at - acm.org, witt - at - styleadvisor.com)
Thorsten Jrgen Ottosen (nesotto - at - cs.auc.dk)
Thorsten Ottosen (nesotto - at - cs.auc.dk)
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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Ji Sigursson <joi@google.com>
Keir Mierle <mierle@gmail.com>
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Mikls Fazekas <mfazekas@szemafor.com>
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Patrick Riley <pfr@google.com>
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1.91 chai 1.9.2

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Chai is a BDD / TDD assertion library for [node](http://nodejs.org) and the browser that can be delightfully paired with any javascript testing framework.

For more information or to download plugins, view the [documentation](http://chaijs.com).


### Plugins

Chai offers a robust Plugin architecture for extending Chai's assertions and interfaces.
- Need a plugin? View the [official plugin list](http://chaijs.com/plugins).
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- Want to build a plugin? Read the [plugin api documentation](http://chaijs.com/guide/plugins/).

### Related Projects
- [chaijs / assertion-error](https://github.com/chaijs/assertion-error): Custom `Error` constructor thrown upon an assertion failing.
- [chaijs / deep-eql](https://github.com/chaijs/deep-eql): Improved deep equality testing for Node.js and the browser.

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1.111 commons-beanutils 1.9.3

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<html lang="en">
<head>
<meta charset="utf-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1">
<meta name="description" content="Home page of The Apache Software Foundation">
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<link rel="manifest" href="/favicons/manifest.json">
<link rel="shortcut icon" href="/favicons/favicon.ico">
<meta name="msapplication-TileColor" content="#603cba">
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</head>

<body>

<!-- Navigation -->

<header>

<nav class="navbar navbar-default navbar-fixed-top">

<div class="container">

<div class="navbar-header">

<button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">

<span class="sr-only">Toggle navigation</span>

<span class="icon-bar"></span>

<span class="icon-bar"></span>

<span class="icon-bar"></span>

</button>

<a href="" class="navbar-brand"><span class="glyphicon glyphicon-home"></span></a>

</div>

<div class="collapse navbar-collapse" id="mainnav-collapse">

<div style="line-height:20px; padding-top:5px; float:left"><a href="/">Home</a>&nbsp;&raquo&nbsp;<a href="/licenses/">Licenses</a></div>

<ul class="nav navbar-nav navbar-right">

<li class="dropdown">

<a href="" class="dropdown-toggle" data-toggle="dropdown">About <span class="caret"></span></a>

<ul class="dropdown-menu" role="menu">

<li><a href="/foundation/">Overview</a></li>

<li><a href="/foundation/members.html">Members</a></li>

<li><a href="/foundation/how-it-works.html">Process</a></li>

<li><a href="/foundation/sponsorship.html">Sponsorship</a></li>

<li><a href="/foundation/glossary.html">Glossary</a></li>

</ul>

</li>

</ul>

</div>

</div>

</nav>

</header>

</body>
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1.145 compress-lzf 1.0.2
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## Credit

Library has been written by Tatu Saloranta (tatu.saloranta@iki.fi). It was started at Ning, Inc., as an official Open Source process used by platform backend, but after initial versions has been developed outside of Ning by supporting community.

Other contributors include:

* Jon Hartlaub (first versions of streaming reader/writer; unit tests)
* Cedrik Lime: parallel LZF implementation

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1.146 concepts 0.7.0-Lithium

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1.147 Concurrent 1.3.4

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1.148 conman 0.2.7 :8.el7

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The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License. But first, please read <http://www.gnu.org/philosophy/why-not-lgpl.html>.

1.152 cracklib 2.9.0 :11.el7
1.152.1 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
------------------------------------------------------------
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 didnt notice the license=20
change until it was mentioned in the latest notes.

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

---

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

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

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

I am sympathetic. Guys, what do you reckon?

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

-a

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

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

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

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

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

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

Cheers,

Nalin

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

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:

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

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

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

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

yes. go for it. thanks++

-a

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

Attachments: Message as HTML
On Sunday 05 October 2008, Alec Muffett wrote:

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

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

-mike

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

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

The below email references nneul@umr.edu address, as that is the address
that was used at the time. For any future emails regarding this, please
use nneul@neulinger.org.
From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
    Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
    Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
    by scanin-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 l91Gxtpr020623
    for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
    by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
    for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
    Received: from [82.68.43.14] (helo=[192.168.1.3])
    by rutherford.zen.co.uk with 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: <1b1b3fd8071010010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
    <EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
    <1b1b3fd8071010010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 01 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

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Version 2.1, February 1999

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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
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for this service if you wish); that you receive source code or can get
it if you want it; that you can change the software and use pieces of
it in new free programs; and that you are informed that you can do
these things.

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

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

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

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

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

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

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

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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.

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

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

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.
6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

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

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

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

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

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

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

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

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

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

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Library), you indicate your acceptance of this License to do so, and
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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

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

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

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

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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

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 unde=
> r
> 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 =20
a=20
library to dictact to application writes what license they should be using.=20
thus LGPL-2.1 enters to fill this void.
=2Dmike

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

-- Nathan
=20

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

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
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Chapter 10

The Linux File System

10-1

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Table 10.4 The file system.

About the Authors

Introduction

The Linux File System

10-2

This chapter describes the file system, including the directory hierarchy, the structure of the file system, and the commands used to manage the file system. It also introduces the Linux file system's main components, such as the file system hierarchy and the file system layout.

The Linux File System

10-3

The Linux file system is a hierarchical file system that is used to store files and directories on a computer. It is based on the Unix file system and is similar to the Windows file system. The Linux file system is organized into a directory hierarchy, which is a tree-like structure where directories contain subdirectories and files.

The File System Hierarchy

10-4

The file system hierarchy is a set of directories that organize files and directories into a tree-like structure. The root directory, usually /, is the top of the hierarchy and contains all other directories.

The File System Layout

10-5

The file system layout is the physical arrangement of files and directories on a storage device. It is determined by the file system type and the way files are stored on the storage device. The layout is important because it affects how files are accessed and how disk space is used.

Managing the File System

10-6

Managing the file system involves creating, modifying, and removing files and directories. It also involves controlling access to files and directories, which is done through file permissions and access control lists.

Files and Directories

10-7

Files are named collections of information. A file can be a text file, a binary file, or a special file. Directories are containers for files and other directories. A directory is represented by a name followed by a / character.

File Permissions

10-8

File permissions are a set of flags that determine who can read, write, or execute a file or directory. There are three types of permissions: read, write, and execute. The permissions are set for three levels: owner, group, and others.

Access Control Lists

10-9

Access control lists (ACLs) are a way to control access to files and directories. ACLs are more flexible than file permissions because they allow for more fine-grained access control. ACLs are set for each user or group.

File System Processing

10-10

File system processing involves loading the file system type and mounting the file system on a mount point. The file system type is determined by the file system type, such as ext4 or xfs. The mount point is where the file system is mounted on the file system hierarchy.

File System Summary

10-11

The Linux file system is a hierarchical file system that is used to store files and directories on a computer. It is based on the Unix file system and is similar to the Windows file system. The Linux file system is organized into a directory hierarchy, which is a tree-like structure where directories contain subdirectories and files. The file system hierarchy is a set of directories that organize files and directories into a tree-like structure. The file system layout is the physical arrangement of files and directories on a storage device. It is determined by the file system type and the way files are stored on the storage device. The layout is important because it affects how files are accessed and how disk space is used. Managing the file system involves creating, modifying, and removing files and directories. It also involves controlling access to files and directories, which is done through file permissions and access control lists. Files are named collections of information. A file can be a text file, a binary file, or a special file. Directories are containers for files and other directories. A directory is represented by a name followed by a / character. File permissions are a set of flags that determine who can read, write, or execute a file or directory. There are three types of permissions: read, write, and execute. The permissions are set for three levels: owner, group, and others. Access control lists (ACLs) are a way to control access to files and directories. ACLs are set for each user or group. File system processing involves loading the file system type and mounting the file system on a mount point. The file system type is determined by the file system type, such as ext4 or xfs. The mount point is where the file system is mounted on the file system hierarchy.
Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone’s best interests to have as secure systems as possible, and I think tainting it via GPL will just make it less likely that the library gets used, and will not usually cause companies/developers to GPL the dependent code (where it is not already GPL).

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

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

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

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

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

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

Cheers,

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

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

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

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

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

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

Happy now? :-)

-a
1.153 cronie 1.4.11 :13.el7

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* @(#)bitstring.h 8.1 (Berkeley) 7/19/93
*/

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

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

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Gocheck - A rich testing framework for Go

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Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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 * Stelian Pop <stelian@popies.net>, 1999-2000
 * Stelian Pop <stelian@popies.net> - Alcve <www.alcove.com>, 2000-2002
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# This is a Makefile stub which handles the creation of BSD shared libraries.
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic
BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:$(BSD_LIB)

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

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

install-strip: install-shlibs

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

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

- trivial database library - private includes
-
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| grep -v ^./build
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Theodore Ts'o
23-June-2007

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

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1.212 el-api 2.2

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@end enumerate

@end smallexample

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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}

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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

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
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first, please read @url{http://www.gnu.org/philosophy/why-not-lgpl.html}.

;; Copyright.el --- update the copyright notice in current buffer

;; Copyright (C) 1991-1995, 1998, 2001-2013 Free Software Foundation,
;; Inc.

;; 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-update
  "Update the copyright notice in current buffer."
  (group 'tools)

(defun 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"))

(defun 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")

(defun copyright-regexp
  "What your copyright notice looks like.
The second \( \) construct must match the years."
  (group 'copyright
    :type 'regexp)

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

;; The worst that can happen is a malicious regexp that overflows in
;; the regexp matcher, a minor nuisance. It's a pain to be always
(defcustom copyright-years-regexp
  "\(\s *\)\([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."
  :group 'copyright
  :type 'boolean
  :version "24.1")

;; when modifying this, also modify the comment generated by autoinsert.el
(defconst copyright-current-gpl-version "3"
  "String representing the current version of the GPL or nil.")

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

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

(defsubst copyright-limit ()  ; re-search-forward BOUND
  (and copyright-limit
   (if copyright-at-end-flag

(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
   (if copyright-at-end-flag
    (< (point) (- (point-max) copyright-limit))
    (> (point) (+ (point-min) copyright-limit)))))

(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 "\(" copyright-regexp
      "\)[ ]*[n]\()\(.*\)?" copyright-names-regexp "\)"
    )
    (copyright-limit)
    t)
    ;; In case the regexp is rejected. This is useful because
    ;; copyright-update is typically called from before-save-hook where
    ;; such an error is very inconvenient for the user.
    (error (message "Can't update copyright: %s" err) nil))

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

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

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

;; FIXME heuristic should be within 50 years of present (cf calendar).
;;###autoload
(defun copyright-fix-years ()
  "Convert 2 digit years to 4 digit years.
Uses heuristic: year >= 50 means 19xx, < 50 means 20xx.
If `copyright-year-ranges' (which see) is non-nil, also
independently replaces consecutive years with a range."
(interactive)
;; TODO there may be multiple copyrights we should fix.
(if (copyright-find-copyright)
  (let ((s (match-beginning 3))
        (p (make-marker))
        ;; Not line-beg-pos, so we don't mess up leading whitespace.
        e last sep year prev-year first-year range-start range-end)
    ;; In case years are continued over multiple, commented lines.
    (goto-char (match-end 1))
    (copyright-find-end)
    (setq e (copy-marker (1+ (match-end 3))))
    (goto-char s)
    (while (re-search-forward "[0-9]+" e t)
      (set-marker p (point))
      (goto-char (match-beginning 0))
      (setq year (string-to-number (match-string 0)))
      (and (setq sep (char-before))
           (= (char-syntax sep) ?\s)
           (= sep ?-)
           (insert " "))
      (when (< year 100)
        (insert (if (>= year 50) "19" "20"))
        (setq year (+ year (if (>= year 50) 1900 2000))))
      (goto-char p)
      (when copyright-year-ranges
        ;; If the previous thing was a range, don't try to tack more on.
        ;; TODO should merge into existing range if possible.
        (if (eq sep ?-)
            (setq prev-year nil
                  year nil)
          (if (and prev-year (= year (1+ prev-year)))
              (setq range-end (point))
          )))
    )))

;; If a write-file-hook returns non-nil, the file is presumed to be written.
(when (and first-year prev-year
 (> prev-year first-year))
 (goto-char range-end)
 (delete-region range-start range-end)
 (insert (format "-%d" prev-year))
 (goto-char p))
 (setq first-year year
 range-start (point))))
 (setq prev-year year
 last p))
 (when last
 (when (and copyright-year-ranges
 first-year prev-year
 (> prev-year first-year))
 (goto-char range-end)
 (delete-region range-start range-end)
 (insert (format "-%d" prev-year)))
 (goto-char last)
 ;; Don't mess up whitespaces after the years.
 (skip-chars-backward "\")
 (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 reformating 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 SORGANIZATION 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 \n)

;;; 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: \nMFilenames matching (regexp): ")
(dolist (file (directory-files directory t match nil))
  (unless (file-directory-p file)
    (message "Updating file `%s'" file)
    ;; FIXME we should not use find-file+save+kill.
    (let ((enable-local-variables :safe)
          (enable-local-eval nil))
      (find-file file))
  (let ((inhibit-read-only t))
    (if fix
        (copyright-fix-years)
        (copyright-update)))
  (save-buffer)
  (kill-buffer (current-buffer))))

(provide 'copyright)

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

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

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

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

(byte-code
 "\300\301\302\303\304\305%\210\306\307\310\311\304\303\301\312\313\&\210\306\314\302\315\304\301\312\316\317\ 320&
 \210\306\321\322\323\304\303\301\312\324\&\210\306\325\326\327\304\301\312\324&\210\306\330\331\332\304\301\3 12\324&\210\306\333\302\334\304\301\312\316\317\335&\210\306\336\337\340\304\301\312\341&\207" [custom-declare-group copyright nil "Update the copyright notice in current buffer." :group tools custom-declare-variable copyright-limit 2000 "Don't try to update copyright beyond this position unless interactive.\nA value of nil means to
search whole buffer." :type (choice (integer :tag "Limit") (const :tag "No limit"))) copyright-at-end-flag "Non-nil means to search backwards from the end of the buffer for copyright.\nThis is useful for ChangeLogs." boolean :version "23.1" copyright-regexp "\(\|@copyright{\}\|\[Cc\]opyright\s *:?\s *\(?:(C)\)?\|\[Cc\]opyright\s *:?\s *\)\s *\(?:[^0-9\n]*\s *\)?\([1-9]\([\[-0-9, ';/*%#\n\t\]\|\s<\|\s>\)*[0-9]+\)\)" "What your copyright notice looks like.\nThe second \( \) construct must match the years." regexp copyright-names-regexp "Regexp matching the names which correspond to the user.\nOnly copyright lines where the name matches this regexp will be updated.\n\nThis allows you to avoid adding years to a copyright notice belonging to someone else or to a group for which you do not work." copyright-years-regexp "\(\s *\)\([1-9]\([\[-0-9, ';/*%#\n\t\]\|\s<\|\s>\)*[0-9]+\)" "Match additional copyright notice years.\nThe second \( \) construct must match the years." copyright-year-ranges "Non-nil if individual consecutive years should be replaced with a range.\n\nFor example: 2005, 2006, 2007, 2008 might be replaced with 2005-2008.\n\nIf you use ranges, you should add an explanatory note in a README file.\nThe function `copyright-fix-years' respects this variable." copyright-query 'function "If non-nil, ask user before changing copyright.\n\nWhen this is `function', only ask when called non-interactively." (choice (const :tag "Do not ask") (const :tag "Ask unless interactive") (other :tag "Ask" t) 10) 

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

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

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

@69 Re-search forward or backward depending on `copyright-at-end-flag'. 
(defalias 'copyright-re-search [&optional bound noerror count] "\(\|\?[Cc\]opyright\s *:?\s *\)?\([1-9]\([\[-0-9, ';/*%#\n\t\]\|\s<\|\s>\)*[0-9]+\)\)" [copyright-at-end-flag re-search-forward re-search-backward] 5 (#$ . 3189)) 

@70 Return point-min or point-max, depending on `copyright-at-end-flag'. 
(defalias 'copyright-start-point [nil "203d207e\"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\"203d207e\"207\" [copyright-offset-too-large-p copyright-update (number-to-string (1+ (point-min)))] 3 (#$ . 3479)) 

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

@69 Re-search forward or backward depending on `copyright-at-end-flag'. 
(defalias 'copyright-find-copyright (&optional bound noerror count) "\(\|\?[Cc\]opyright\s *:?\s *\)?\([1-9]\([\[-0-9, ';/*%#\n\t\]\|\s<\|\s>\)*[0-9]+\)\)" [copyright-at-end-flag re-search-forward re-search-backward] 5 (#$ . 3189)) 

@70 Return point-min or point-max, depending on `copyright-at-end-flag'. 
(defalias 'copyright-find-end [nil "203d207e\"207\" [copyright-at-end-flag] 1 (#$ . 3479)) 

@65 Return non-nil if point is too far from the edge of the buffer. 
(defalias 'copyright-find-end [nil "205\"203d207e\"207\" [copyright-find-end copyright-update (number-to-string (1+ (point-min)))] 3 (#$ . 3479)) 

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

@69 Re-search forward or backward depending on `copyright-at-end-flag'. 
(defalias 'copyright-find-copyright (&optional bound noerror count) "\(\|\?[Cc\]opyright\s *:?\s *\)?\([1-9]\([\[-0-9, ';/*%#\n\t\]\|\s<\|\s>\)*[0-9]+\)\)" [copyright-at-end-flag re-search-forward re-search-backward] 5 (#$ . 3189)) 

@70 Return point-min or point-max, depending on `copyright-at-end-flag'. 
(defalias 'copyright-find-end [nil "205\"203d207e\"207\" [copyright-at-end-flag] 1 (#$ . 3479)) 

@65 Return non-nil if point is too far from the edge of the buffer. 
(defalias 'copyright-find-end [nil "205\"203d207e\"207\" [copyright-find-end copyright-update (number-to-string (1+ (point-min)))] 3 (#$ . 3479)) 

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

@69 Re-search forward or backward depending on `copyright-at-end-flag'. 
(defalias 'copyright-find-copyright (&optional bound noerror count) "\(\|\?[Cc\]opyright\s *:?\s *\)?\([1-9]\([\[-0-9, ';/*%#\n\t\]\|\s<\|\s>\)*[0-9]+\)\)" [copyright-at-end-flag re-search-forward re-search-backward] 5 (#$ . 3189)) 

@70 Return point-min or point-max, depending on `copyright-at-end-flag'. 
(defalias 'copyright-find-end [nil "205\"203d207e\"207\" [copyright-at-end-flag] 1 (#$ . 3479)) 

@65 Return non-nil if point is too far from the edge of the buffer. 
(defalias 'copyright-find-end [nil "205\"203d207e\"207\" [copyright-find-end copyright-update (number-to-string (1+ (point-min)))] 3 (#$ . 3479)) 

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

@69 Re-search forward or backward depending on `copyright-at-end-flag'. 
(defalias 'copyright-find-copyright (&optional bound noerror count) "\(\|\?[Cc\]opyright\s *:?\s *\)?\([1-9]\([\[-0-9, ';/*%#\n\t\]\|\s<\|\s>\)*[0-9]+\)\)" [copyright-at-end-flag re-search-forward re-search-backward] 5 (#$ . 3189)) 

@70 Return point-min or point-max, depending on `copyright-at-end-flag'. 
(defalias 'copyright-find-end [nil "205\"203d207e\"207\" [copyright-at-end-flag] 1 (#$ . 3479)) 

@65 Return non-nil if point is too far from the edge of the buffer. 
(defalias 'copyright-find-end [nil "205\"203d207e\"207\" [copyright-find-end copyright-update (number-to-string (1+ (point-min)))] 3 (#$ . 3479))
Update copyright notice to indicate the current year. 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.

(put 'copyright 'no-self-insert t)

Insert a copyright by $ORGANIZATION notice at cursor.

This is a skeleton command (see `skeleton-insert'). Normally the skeleton text is inserted at point, with nothing "inside".

This 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 -1 says to wrap around region, even if not highlighted. A prefix argument of zero says to wrap around zero words—that is, nothing. This is a way of overriding the use of a highlighted region.

(defalias 'copyright #((&optional str arg) "\302\303\t#\207") [str arg skeleton-proxy-new ("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 n)]) 4 (#$ . 8883) "**PnP**")

#@122 Update copyright notice for all files in DIRECTORY matching MATCH. If FIX is non-nil, run 'copyright-fix-years' instead.

(defalias 'copyright-update-directory #((directory match &optional fix) "\316\317\310$\310\211\205E@\311\n!\204=\312\313\"\210\314\310\315\u01a0\210*\3202\316 \210\2025\317 \210)\320p!\210A\211\204 \

(provide 'copyright)

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Version 3, 29 June 2007

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

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

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

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

You should have received a copy of the GNU General Public License along with this program. If not, see <http://www.gnu.org/licenses/>.

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:

<program>  Copyright (C) <year>  <name of author>
This program 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, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
<http://www.gnu.org/licenses/>.

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

Copyright (C) 2007-2013 Free Software Foundation, Inc.
See the end of the file for license conditions.

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/res2log    # Copyright
Cocoa/Emacs.base/Contents/Info.plist
Cocoa/Emacs.base/Contents/Resources/English.lproj/InfoPlist.strings
GNUnstep/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.

cetc/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, QJ-b5.tit, QJ.tit,
SW.tit, TONEPY.tit, ZOZY.tit
- leave the copyrights alone.

leim/MISC-DIC/CTLau-b5.html, CTLau.html, cangjie-table.b5, cangjie-table.cns,
pinyin.map, ziranma.cin
- leave the copyright alone.

Note that pinyin.map, ziranma.cin (and hence the generated
leim/quail/PY.el, ZIRANMA.el) are under GPLv1 or later.

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

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

Until 2007 etags.c was described as being copyright FSF and Ken Arnold.
After some investigation in Feb 2007, then to the best of our
knowledge we believe that the original 1984 Emacs version was based
on the version in BSD4.2. See for example this 1985 post from Ken Arnold:
<http://groups.google.com/group/mod.sources/browse_thread/thread/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." <http://lists.gnu.org/archive/html/emacs-devel/2007-01/msg00960.html>
  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 x1wmenu.c, x1wmenu.h, and x1wmenuP.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 diffing the current files against those in X11R1, and when I found significant differences looking in the ChangeLog for the years they originated (the CVS logs are truncated before 1999). I therefore removed the FSF notices (added in 200x) from the other files. There are some borderline cases IMO: AddSel.c, InsSel.c, XMakeAssoc.c, XMenu.h. For these I erred on the side of NOT adding FSF notices.

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

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

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

insque.c had no copyright notice until 2005. The version of insque.c
added to Emacs 1992-01-27 is essentially the same as insremque.c added to glic three days later by Roland McGrath, with an FSF copyright and GPL, but no ChangeLog entry:

<http://sources.redhat.com/cgi-bin/cvsweb.cgi/~checkout~/libc/misc/insremque.c?rev=1.1&cvsroot=glibc>

To the best of his recollection, McGrath (who has a copyright assignment) was the author of this file (email from roland at frob.com to rms, 2007-02-23, "Where did insque.c come from?"). The FSF copyright and GPL in this file are therefore correct as far as we understand it.

Imakefile had no legal info in Feb 2007, but was obviously based on the X11 version (which also had no explicit legal info). As it was unused, I removed it. It would have the same MIT copyright as Makefile.in does now.

src/gmalloc.c
- contains numerous copyrights from the GNU C library. Leave them alone.

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

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

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

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

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

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

Accordingly, FSF copyright was added.

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

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

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

** Issues that are "fixed" for the release of Emacs 22, but we may wish to revisit later in more detail

admin/check-doc-strings
File says it's in the public domain, but that might not make it so.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

rms: will ask lawyer

Make sure that all files with non-standard copyrights or licenses are noted in this file.
REMOVED etc/gnu.xpm, nt/icons/emacs21.ico, nt/icons/sink.ico
- Restore if find legal info. emacs21.ico is not due to Davenport.
Geoff Voelker checked but could not find a record of where it came from.

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

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

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

** NOTES ON RELICENSING TO GPL3

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

Some notes:

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

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

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

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

3. lwlib/

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

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

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

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

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

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the Free Software Foundation, either version 3 of the License, or
(at your option) any later version.

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along with GNU Emacs. If not, see <http://www.gnu.org/licenses/>.
(For more information about the GNU project and free software,
look at the files `GNU', `COPYING', and `DISTRIBUT', in the same
directory as this file.)

Why Software Should Be Free

by Richard Stallman

(Version of April 24, 1992)

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Verbatim copying and redistribution is permitted
without royalty; alteration is not permitted.

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' profts. The political power of business has led to the government
adoption of both this criterion and the answer proposed by the
developers: that the program has an owner, typically a corporation
associated with its development.

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

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

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

How Owners Justify Their Power

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

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

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

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

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

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

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

The Argument against Having Owners

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

In order to decide this, we have to judge the effect on society of each of those two activities *independently*: the effect of developing the software (regardless of its terms of distribution), and the effect of restricting its use (assuming the software has been developed). If one of these activities is helpful and the other is harmful, we would be better off dropping the linkage and doing only the helpful one.

To put it another way, if restricting the distribution of a program already developed is harmful to society overall, then an ethical software developer will reject the option of doing so.

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

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

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

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

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

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

Of course, the construction of a free road does cost money, which the public must somehow pay. However, this does not imply the inevitability of toll booths. We who must in either case pay will get more value for our money by buying a free road.

I am not saying that a toll road is worse than no road at all. That would be true if the toll were so great that hardly anyone used the road—but this is an unlikely policy for a toll collector. However, as long as the toll booths cause significant waste and inconvenience, it is better to raise the funds in a less obstructive fashion.

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

The Harm Done by Obstructing Software
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Consider for a moment that a program has been developed, and any necessary payments for its development have been made; now society must choose either to make it proprietary or allow free sharing and use. Assume that the existence of the program and its availability is a desirable thing.
Restrictions on the distribution and modification of the program cannot facilitate its use. They can only interfere. So the effect can only be negative. But how much? And what kind?

Three different levels of material harm come from such obstruction:

* Fewer people use the program.

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

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

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

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

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

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

It is easy to show that the total contribution of a program to society is reduced by assigning an owner to it. Each potential user of the program, faced with the need to pay to use it, may choose to pay, or may forego use of the program. When a user chooses to pay, this is a zero-sum transfer of wealth between two parties. But each time someone chooses to forego use of the program, this harms that person without benefiting anyone. The sum of negative numbers and zeros must be negative.
But this does not reduce the amount of work it takes to *develop* the program. As a result, the efficiency of the whole process, in delivered user satisfaction per hour of work, is reduced.

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

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

However, imposing a price on something that would otherwise be free is a qualitative change. A centrally-imposed fee for software distribution becomes a powerful disincentive.

What's more, central production as now practiced is inefficient even as a means of delivering copies of software. This system involves enclosing physical disks or tapes in superfluous packaging, shipping large numbers of them around the world, and storing them for sale. This cost is presented as an expense of doing business; in truth, it is part of the waste caused by having owners.

Damaging Social Cohesion

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

Signing a typical software license agreement means betraying your neighbor: "I promise to deprive my neighbor of this program so that I can have a copy for myself." People who make such choices feel internal psychological pressure to justify them, by downgrading the importance of helping one's neighbors--thus public spirit suffers. This is psychosocial harm associated with the material harm of discouraging use of the program.
Many users unconsciously recognize the wrong of refusing to share, so they decide to ignore the licenses and laws, and share programs anyway. But they often feel guilty about doing so. They know that they must break the laws in order to be good neighbors, but they still consider the laws authoritative, and they conclude that being a good neighbor (which they are) is naughty or shameful. That is also a kind of psychosocial harm, but one can escape it by deciding that these licenses and laws have no moral force.

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

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

Obstructing Custom Adaptation of Programs
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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;
```
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?
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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
derlier 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?"

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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
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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.

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

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

;;;;;;;;;;;;;;;;;;;;;;;;;;;
(byte-code
\300\301\302\303\304\305%\210\306\307\310\311\304\301\312\313&\210\306\314\302\315\304\301\312\316\317\320&
\210\306\321\322\323\324\301\312\324&\210\306\325\326\327\304\301\312\324&\210\306\330\301\313\322\304\301\313
\312\324&\210\306\333\302\323\304\301\312\316\317\335&\210\306\336\337\340\304\301\312\341&\207" [custom-
declare-group copyright nil "Update the copyright notice in current buffer." :group tools custom-declare-variable
copyright-limit 2000 "Don't try to update copyright beyond this position unless interactive.\nA value of nil means to
search whole buffer." :type (choice (integer :tag "Limit") (const :tag "No limit")) copyright-at-end-flag "Non-nil
means to search backwards from the end of the buffer for copyright.\nThis is useful for ChangeLogs." boolean
:version "23.1" copyright-regexp \("\|@copyright{}\|\[Cc\]opyright\s *:?\s *\)?\(\[Cc\]opyright\s *:?\s
\)?\(\s *\)\(\[1-9\]\(\[-0-9, ';/*%#\t\]\|\s<\|\s>\)*[0-9]\)\) \(\[1-9\]\(\[-0-9, ';/*%#\t\]\|\s<\|\s>\)*[0-9]\)\) \(\[1-9\]\(\[-0-9, ';/*%#\t\]\|\s<\|\s>\)*[0-9]\)\) "What your copyright notice looks
like.\nThe second \( \) construct must match the years." regexp copyright-names-regexp "" "Regexp matching the
names which correspond to the user.\nOnly copyright lines where the name matches this regexp will be
updated.\nThe second \( \) construct must match the years." regexp matching the
copyright years-regexp \("\|@copyright{}\|\[Cc\]opyright\s *:?\s *\)?\(\[Cc\]opyright\s *:?\s
\)?\(\s *\)\(\[1-9\]\(\[-0-9, ';/*%#\t\]\|\s<\|\s>\)*[0-9]\)\) \(\[1-9\]\(\[-0-9, ';/*%#\t\]\|\s<\|\s>\)*[0-9]\)\) "Match
additional copyright notice years.\nThe second \( \) construct must match the years." copyright-year-ranges "Non-nil
if individual consecutive years should be replaced with a range.\nFor example: 2005, 2006, 2007, 2008 might be replaced with 2005-2008.\nIf you use ranges, you should add an explanatory note in a README file.\nThe function
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
\314\211\332\317%\210)\333\300!\210\332*\332\207" [copyright-update interactivep copyright-query noquery arg
copyright-current-gpl-version function copyright-find-copyright copyright-update-year copyright-start-point
copyright-re-search "the Free Software Foundation[,;\n].*either version \\([0-9]+\\)\\(?: of the License\\)?, or[
\n].*any later version" t string-to-number match-string 1 match-data ((byte-code "\301\302\"\207" [save-match-datainternal set-match-data evaporate] 3)) current-window-configuration ((set-window-configuration #1=#:wconfig))
switch-to-buffer y-or-n-p format "Replace GPL version %s with version %s? " match-string-no-properties replacematch nil make-local-variable copyright-limit copyright-at-end-flag save-match-data-internal #1#] 6 (#$ . 6067)
"*P\nd"])
#@208 Convert 2 digit years to 4 digit years.
Uses heuristic: year >= 50 means 19xx, < 50 means 20xx.
If `copyright-year-ranges' (which see) is non-nil, also
independently replaces consecutive years with a range.
(defalias 'copyright-fix-years #[nil "\306 \203 \307\224\310
\311\224\312\211\211\211\211\211\211\211\"#$%&\313\225b\210\314
\210\315\307\225T!#&b\210\316\317#\320#\203\331%`\312\223\210\311\224b\210\321\322\311!!`Sf\211\203f
z\323U\204f
\324U\204f\325c\210\f\326W\203\207\f\327Y\203v\330\202w\331c\210\f\211\327Y\203\204\332\202\205\333\\%b
\210'\203\320
\324=\203\235\312\211\202\320\203\255\fTU\203\255`\202\320\n\203\314\203\314\nV\203\314b\210
|\210\334\335\"c\210%b\210\f`\f%\"\2025\"\203'\203\376\n\203\376\203\376\nV\203\376b\210
|\210\334\335\"c\210\"b\210\336\312x\210\214$`}\210\337ed\"\210)#\312\211\223\210%\312\211\223.\207\340\34
1!\207" [range-end range-start first-year prev-year year sep copyright-find-copyright 3 make-marker 0 nil 1
copyright-find-end copy-marker re-search-forward "[0-9]+" t string-to-number match-string 32 45 " " 100 50 "19"
"20" 1900 2000 format "-%d" " " fill-region message "No copyright message" last e copystart p s copyright-yearranges] 12 (#$ . 7556) nil])
(put 'copyright 'no-self-insert t)
#@558 Insert a copyright by $ORGANIZATION notice at cursor.
This is a skeleton command (see `skeleton-insert').
Normally the skeleton text is inserted at point, with nothing "inside".
If there is a highlighted region, the skeleton text is wrapped
around the region text.
A prefix argument ARG says to wrap the skeleton around the next ARG words.
A prefix argument of -1 says to wrap around region, even if not highlighted.
A prefix argument of zero says to wrap around zero words---that is, nothing.
This is a way of overriding the use of a highlighted region.
(defalias 'copyright #[(&optional str arg) "\302\303#\207" [str arg skeleton-proxy-new ("Company: " comment-start
"Copyright (C) " `(format-time-string "%Y") " by " (or (getenv "ORGANIZATION") str) '(if (copyright-offset-toolarge-p) (message "Copyright extends beyond `copyright-limit' and won't be updated automatically.")) comment-end
n)] 4 (#$ . 8883) "*P\nP"])

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Update copyright notice for all files in DIRECTORY matching MATCH.
If FIX is non-nil, run `copyright-fix-years' instead.
(defalias 'copyright-update-directory #[(directory match &optional fix) "$find-file copyright-fix-years copyright-update save-buffer inhibit-read-only fix] 6 (#$ . 9815) "DDirectory: 
MFilenames matching (regexp): "])
(provide 'copyright)
@c The GNU General Public License.
@center Version 3, 29 June 2007
@c This file is intended to be included within another document,
@c hence no sectioning command or @node.

@display
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@end display

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@enumerate 0
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@enumerate a
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@end enumerate

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@end enumerate

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@example
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AppleJavaExtensions
v 1.2


This is a pluggable jar of stub classes representing the new Apple
eAWT and eIO APIs for Java 1.4 on Mac OS X. The purpose of these
stubs is to allow for compilation of eAWT- or eIO-referencing code on
platforms other than Mac OS X. These stubs are not intended for the
runtime classpath on non-Mac platforms. Please see the OSXAdapter
sample for how to write cross-platform code that uses eAWT.

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1.233 gamin 0.1.10 :16.el7

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1.234 gawk 4.0.2

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.
The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library 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.

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

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

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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!

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Version 3, 29 June 2007

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The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users. We, the Free Software Foundation, use the
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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.

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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.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

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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Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

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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
Open Source Used In Cisco Identity Services Engine 2.3

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.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

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

HISTORY -

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

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

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

The SPARC specific code was originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM.

Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.

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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(age@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.)

GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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

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

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

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

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

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

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

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.
However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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

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

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

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

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

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

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

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

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

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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.

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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
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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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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials
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It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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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".)

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

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

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

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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.

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

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

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

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

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

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

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

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

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

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

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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 accompanies the executable.

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

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

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

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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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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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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:

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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
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entire whole, and thus to each and every part regardless of who wrote
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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
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If distribution of object code is made by offering access to copy
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source code from the same place satisfies the requirement to
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However, linking a "work that uses the Library" with the Library
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If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

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

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6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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

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

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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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#include <config.h>

/* Specification */
#include <unistd.h>
#include <errno.h>
#include <stdlib.h>
#include <string.h>
#if GNULIB_GETCWD
/* Favor GPL getcwd.c if both getcwd and getcwd-lgpl modules are in use. */
typedef int dummy;
#else
/* Get the name of the current working directory, and put it in SIZE 
bytes of BUF. Returns NULL if the directory couldn’t be determined 
(perhaps because the absolute name was longer than PATH_MAX, or 
because of missing read/search permissions on parent directories) 
or SIZE was too small. If successful, returns BUF. If BUF is 
NULL, an array is allocated with ‘malloc‘; the array is SIZE bytes 
long, unless SIZE == 0, in which case it is as big as 
necessary. */

#undef getcwd
char *
rpl_getcwd (char *buf, size_t size)
{
    char *ptr;
    char *result;

    /* Handle single size operations. */
    if (buf)
    {
        if (!size)
        {
            errno = EINVAL;
            return NULL;
        }
        return getcwd (buf, size);
    }
if (size)
{
    buf = malloc (size);
    if (!buf)
    {
        errno = ENOMEM;
        return NULL;
    }
    result = getcwd (buf, size);
    if (!result)
    {
        int saved_errno = errno;
        free (buf);
        errno = saved_errno;
    }
    return result;
}

/* Flexible sizing requested. Avoid over-allocation for the common case of a name that fits within a 4k page, minus some space for local variables, to be sure we don't skip over a guard page. */
{
    char tmp[4032];
    size = sizeof tmp;
    ptr = getcwd (tmp, size);
    if (ptr)
    {
        result = strdup (ptr);
        if (!result)
            errno = ENOMEM;
        return result;
    }
    if (errno != ERANGE)
        return NULL;
}

/* My what a large directory name we have. */
do
{
    size <<= 1;
    ptr = realloc (buf, size);
    if (ptr == NULL)
    {
        free (buf);
        errno = ENOMEM;
        return NULL;
    }
buf = ptr;
result = getcwd (buf, size);
}
while (!result && errno == ERANGE);

if (!result)
{
    int saved_errno = errno;
    free (buf);
    errno = saved_errno;
}
else
{
    /* Trim to fit, if possible. */
    result = realloc (buf, strlen (buf) + 1);
    if (!result)
    result = buf;
}
return result;

#endif
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#include <config.h>
#include <unistd.h>
#include "signature.h"
SIGNATURE_CHECK (getcwd, char *, (char *, size_t));
#include <errno.h>
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include "macros.h"

int  
main (int argc, char **argv)  
{  
  char *pwd1;  
  char *pwd2;  
  /* If the user provides an argument, attempt to chdir there first. */  
  if (1 < argc)  
  {  
    if (chdir (argv[1]) == 0)  
      printf ("changed to directory %s\n", argv[1]);  
  }  

  pwd1 = getcwd (NULL, 0);  
  ASSERT (pwd1 && *pwd1);  
  if (1 < argc)  
    printf ("cwd=%s\n", pwd1);  

  /* Make sure the result is usable. */
ASSERT (chdir (pwd1) == 0);
ASSERT (chdir ("../.") == 0);

/* Make sure that result is normalized. */
pwd2 = getcwd (NULL, 0);
ASSERT (pwd2);
ASSERT (strcmp (pwd1, pwd2) == 0);
free (pwd2);
{
    size_t len = strlen (pwd1);
    ssize_t i = len - 10;
    if (i < 1)
        i = 1;
    pwd2 = getcwd (NULL, len + 1);
    ASSERT (pwd2);
    free (pwd2);
    pwd2 = malloc (len + 2);
    for (; i <= len; i++)
        {
            char *tmp;
            errno = 0;
            ASSERT (getcwd (pwd2, i) == NULL);
            ASSERT (errno == ERANGE);
            /* Allow either glibc or BSD behavior, since POSIX allows both. */
            errno = 0;
            tmp = getcwd (NULL, i);
            if (tmp)
                {
                    ASSERT (strcmp (pwd1, tmp) == 0);
                    free (tmp);
                }
            else
                {
                    ASSERT (errno == ERANGE);
                }
        }
    ASSERT (getcwd (pwd2, len + 1) == pwd2);
    pwd2[len] = 'r';
    pwd2[len + 1] = '0';
}
ASSERT (strstr (pwd2, "/./") == NULL);
ASSERT (strstr (pwd2, "/../") == NULL);
ASSERT (strstr (pwd2 + 1 + (pwd2[1] == '/'), "//") == NULL);

/* Validate a POSIX requirement on size. */
errno = 0;
ASSERT (getcwd(pwd2, 0) == NULL);
ASSERT (errno == EINVAL);
free (pwd1);
free (pwd2);

return 0;
}
#!/bin/sh
# Test suite for update-copyright.
# Copyright (C) 2009-2014 Free Software Foundation, Inc.
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diffout=`diff -u /dev/null /dev/null 2>&1`
if test x"$diffout" = x"" && test $? -eq 0; then
  compare() { diff -u "$@"; }
else
  compare() { cmp "$@"; }
fi

# Ensure the update-copyright program gets found.
PATH=$abs_aux_dir:$PATH
export PATH

TMP_BASE=update-copyright.test
trap 'rm -f $TMP_BASE*' 0 1 2 3 15

## --------------- ##
## Skip if user does not have perl. ##
## --------------- ##

TMP=$TMP_BASE
s=$TMP-script
cat <<EOF > $s
eval '(exit $?0)'
& eval 'exec perl -wS -0777 -pi "$0" $1+"$@")'
& eval 'exec perl -wS -0777 -pi "$0" $argv:q'
if 0;
EOF
s/a/b/
EOF
chmod a+x $s
.

EOF

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EOF

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EOF

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EOF

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EOF

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EOF

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EOF

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EOF

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EOF
cat > $TMP.6 <<EOF
## Copyright (C) 1990-2005, 2007-2009 Free Software
# Foundation, Inc.

Copyright (C) 1990-2005, 2007-2009 Free Software Foundation, Inc.
EOF
cat > $TMP.7 <<EOF

# Copyright (C) 1990-2005, 2007-2009 Free Software
# Foundation, Inc.
EOF

UPDATE_COPYRIGHT_YEAR=2009 \
update-copyright $TMP.? 1> $TMP-stdout 2> $TMP-stderr
compare /dev/null $TMP-stdout || exit 1
compare - $TMP-stderr <<EOF || exit 1
$TMP.4: warning: copyright statement not found
$TMP.5: warning: copyright statement not found
EOF
compare - $TMP.1 <<EOF || exit 1
Copyright @copyright{} 1990-2005, 2007-2009 Free Software Foundation, Inc.
EOF
compare - $TMP.2 <<EOF || exit 1
# Copyright (C) 1990-2005, 2007-2009 Free Software
# Foundation, Inc.
EOF
compare - $TMP.3 <<EOF || exit 1
/
 * Copyright &copy; 90,2005,2007-2009
 * Free Software Foundation, Inc.
 */
EOF
compare - $TMP.4 <<EOF || exit 1
## Copyright (C) 1990-2005, 2007-2009 Free Software
# Foundation, Inc.
EOF
compare - $TMP.5 <<EOF || exit 1
EOF
compare - $TMP.6 <<EOF || exit 1
## Copyright (C) 1990-2005, 2007-2009 Free Software
# Foundation, Inc.

Copyright (C) 1990-2005, 2007-2009 Free Software Foundation, Inc.

# Copyright (C) 1990-2005, 2007-2009 Free Software
# Foundation, Inc.

EOF

UPDATE_COPYRIGHT_YEAR=2010 UPDATE_COPYRIGHT_USE_INTERVALS=1 \ update-copyright $TMP.? 1> $TMP-stdout 2> $TMP-stderr
compare /dev/null $TMP-stdout || exit 1
compare - $TMP-stderr <<EOF || exit 1
$TMP.4: warning: copyright statement not found
$TMP.5: warning: copyright statement not found
EOF

compare - $TMP.1 <<EOF || exit 1
EOF

compare - $TMP.2 <<EOF || exit 1
# Copyright (C) 1990-2005, 2007-2010 Free Software Foundation, Inc.
EOF

compare - $TMP.3 <<EOF || exit 1
/*
 */
EOF

compare - $TMP.4 <<EOF || exit 1
## Copyright (C) 1990-2005, 2007-2009 Free Software
# Foundation, Inc.
EOF

compare - $TMP.5 <<EOF || exit 1
EOF

compare - $TMP.6 <<EOF || exit 1
## Copyright (C) 1990-2005, 2007-2009 Free Software
# Foundation, Inc.

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EOF

compare - $TMP.7 <<EOF || exit 1

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EOF

UPDATE_COPYRIGHT_YEAR=2010 UPDATE_COPYRIGHT_FORCE=1 \ update-copyright $TMP.? 1> $TMP-stdout 2> $TMP-stderr
compare /dev/null $TMP-stdout || exit 1
compare - $TMP-stderr <<EOF || exit 1
$TMP.4: warning: copyright statement not found
$TMP.5: warning: copyright statement not found
EOF
compare - $TMP.1 <<EOF || exit 1
Free Software Foundation, Inc.
EOF
compare - $TMP.2 <<EOF || exit 1
# Software Foundation, Inc.
EOF
compare - $TMP.3 <<EOF || exit 1
/*
 * Foundation, Inc.
 */
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compare - $TMP.4 <<EOF || exit 1
### Copyright (C) 1990-2005, 2007-2009 Free Software
### Foundation, Inc.
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compare - $TMP.5 <<EOF || exit 1
EOF
compare - $TMP.6 <<EOF || exit 1
### Copyright (C) 1990-2005, 2007-2009 Free Software
### Foundation, Inc.
Software Foundation, Inc.
EOF
compare - $TMP.7 <<EOF || exit 1
#
# Software Foundation, Inc.
EOF

rm $TMP*

### -------------- ###
### Current year.  ###
TMP=$TMP_BASE-current-year
YEAR=`date +%Y`
cat > $TMP <<EOF
" Copyright (C) 2006
" Free Software Foundation,
" Inc.
EOF
update-copyright $TMP 1> $TMP-stdout 2> $TMP-stderr
compare /dev/null $TMP-stdout || exit 1
compare /dev/null $TMP-stderr || exit 1
compare - $TMP <<EOF || exit 1
" Copyright (C) 2006, $YEAR Free Software Foundation, Inc.
EOF
UPDATE_COPYRIGHT_USE_INTERVALS=1 \nupdate-copyright $TMP 1> $TMP-stdout 2> $TMP-stderr
compare /dev/null $TMP-stdout || exit 1
compare /dev/null $TMP-stderr || exit 1
compare - $TMP <<EOF || exit 1
" Copyright (C) 2006, $YEAR Free Software Foundation, Inc.
EOF
rm $TMP*

## ------------------ ##
## Surrounding text. ##
## ------------------ ##
TMP=$TMP_BASE-surrounding-text
cat > $TMP <<EOF
Undisturbed text.
dnl Undisturbed text.
dnl Copyright (C) 89
dnl Free Software Foundation, Inc.
dnl Undisturbed text.
EOF
UPDATE_COPYRIGHT_YEAR=2010 \nupdate-copyright $TMP 1> $TMP-stdout 2> $TMP-stderr
compare /dev/null $TMP-stdout || exit 1
compare /dev/null $TMP-stderr || exit 1
compare - $TMP <<EOF || exit 1
Undisturbed text.
dnl Undisturbed text.
dnl Copyright (C) 1989, 2010 Free Software Foundation, Inc.
dnl Undisturbed text.
EOF
rm $TMP*
Widest prefix.

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

TMP=$TMP_BASE-widest-prefix

cat > $TMP <<EOF

#### 2008 Free Software Foundation, Inc.

EOF

UPDATE_COPYRIGHT_YEAR=2010 \ 
update-copyright $TMP 1> $TMP-stdout 2> $TMP-stderr

cat > $TMP <<EOF


EOF

UPDATE_COPYRIGHT_YEAR=2011 UPDATE_COPYRIGHT_USE_INTERVALS=1 \ 
update-copyright $TMP 1> $TMP-stdout 2> $TMP-stderr

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

Prefix too large. ##

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

TMP=$TMP_BASE-prefix-too-large

cat > $TMP <<EOF

#### 2008 Free Software Foundation, Inc.

EOF

UPDATE_COPYRIGHT_YEAR=2010 \ 
update-copyright $TMP 1> $TMP-stdout 2> $TMP-stderr

cat > $TMP <<EOF

2008 Free Software Foundation, Inc.
EOF
rm $TMP*

## ------------ ##
## Blank lines. ##
## ------------ ##

TMP=$TMP_BASE-blank-lines

#2008 Free Software Foundation, Inc.

2008 Free Software Foundation, Inc.
EOF
UPDATE_COPYRIGHT_YEAR=2010\
  update-copyright $TMP 1> $TMP-stdout 2> $TMP-stderr
compare /dev/null $TMP-stdout || exit 1
cat > $TMP <<EOF
#2008 Free Software Foundation, Inc.
2008 Free Software Foundation, Inc.
EOF
rm $TMP*

## ------------ ##
## Leading tabs. ##
## ------------ ##

TMP=$TMP_BASE-leading-tabs

UPDATE_COPYRIGHT_YEAR=2011 UPDATE_COPYRIGHT_USE_INTERVALS=2 \ UPDATE_COPYRIGHT_FORCE=1 update-copyright $TMP 1> $TMP-stdout 2> $TMP-stderr compare /dev/null $TMP-stdout || exit 1 compare /dev/null $TMP-stderr || exit 1 compare - $TMP <<EOF || exit 1 # Copyright (C) 1987-2011 Free Software Foundation, Inc. EOF rm $TMP*

## --------- ##
## DOS EOL. ##
## --------- ##

## --------------- ##
## Omitted "(C)". ##
## --------------- ##
Free Software Foundation, Inc.
EOF
rm $TMP*

## ------------------ ##
## C-style comments. ##
## ------------------ ##

TMP=$TMP_BASE-c-style-comments
cat > $TMP.star <<EOF
*  2009 Free Software Foundation, Inc. */
EOF
cat > $TMP.space <<EOF
  2009 Free Software Foundation, Inc. */
EOF
cat > $TMP.single-line <<EOF
/*   Copyright 87, 1991, 1992 Free Software Foundation, Inc. */
EOF
cat > $TMP.single-line-wrapped <<EOF
/* Copyright 1988, 1991, 1992 Free Software Foundation, Inc. */
EOF
cat > $TMP.extra-text-star <<EOF
  * More comments. */
EOF
cat > $TMP.extra-text-space <<EOF
  * End of comments. */
EOF
cat > $TMP.two-digit-final-is-substr-of-first <<EOF
/* Copyright 1991, 99 Free Software Foundation, Inc. */
EOF
UPDATE_COPYRIGHT_YEAR=2010 \
  update-copyright $TMP.* 1> $TMP-stdout 2> $TMP-stderr
compare /dev/null $TMP-stdout || exit 1
compare /dev/null $TMP-stderr || exit 1
compare - $TMP.star <<EOF || exit 1
*  2009, 2010 Free Software Foundation, Inc. */
EOF
compare - $TMP.space <<EOF || exit 1
  2009, 2010 Free Software Foundation, Inc. */
EOF

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Version 3, 29 June 2007

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AUTHOR
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Peter Schaffter (peter@schaffter.ca)
1-355 Lafontaine Ave
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. The file `src/libs/snprintf/snprintf.c', written by Mark Martinec
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  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
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src/devices/xditview/font.c
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src/devices/xditview/gray2.bm
src/devices/xditview/gray3.bm
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src/devices/xditview/xdit_mask.bm
src/devices/xditview/xditview.c

src/include/DviChar.h
src/include/XFontName.h

src/libs/libxutil/DviChar.c
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. The -mdoc macro set, using the BSD license.

tmac/doc.tmac
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tmac/doc-common
tmac/doc-ditroff
tmac/doc-nroff
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tmac/groff_mdoc.man

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1.304 icu 50.1.2 :11.el7
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## -*-makefile-*-
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-BSymbolic
## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.$(STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.$(STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

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

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

## Versioned libraries rules
%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s {<F}.$SO.$(SO_TARGET_VERSION_MAJOR) $@

## End FreeBSD-specific setup

1.305 ICU4J 4.8.1.1
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1.307 ietf-inet-types 2010.09.24.7-Lithium

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1.314 iputils 20121221 :6.el7

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1.316 ivtv-firmware 20080701 :26.el7

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1.330 jackson-databind 2.2.3

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Here are people who have contributed to development Jackson JSON processor databind core component, version 2.x
(version numbers in brackets indicate release in which the problem was fixed)

(note: for older credits, check out release notes for 1.x versions)

Tatu Saloranta, tatu.saloranta@iki.fi: author

Pascal G#142;linas:
* Contributed fixes to 'MappingIterator' handling (Pull#58 and Pull#59) (2.1.0)
* Reported #220: ContainerNode missing 'createNumber(BigInteger)' (2.2.2)

Joern Huxhorn:
* Suggested [JACKSON-636]: Add 'SerializationFeature.ORDER_MAP_ENTRIES_BY_KEYS' to allow
forced sorting of Maps during serialization
(2.0.0)

James Roper:
* Requested [JACKSON-732]: Allow 'AnnotationIntrospector.findContentDeserializer()' 
  (and similar) to return instance, not just Class<?> for instance
  (2.0.0)
* Suggested [JACKSON-800]: Adding a method for letting modules register 
  DeserializationProblemHandlers
  (2.0.0)

Casey Lucas:
* Reported [JACKSON-798]: Problem with external type id, creators
  (2.0.0)

Tammo van Lessen:
* Reported [JACKSON-811]: Problems with @JsonIdentityInfo, abstract types
  (2.0.0)
* Reported [JACKSON-814]: Parsing RFC822/RFC1123 dates fails on non-US locales
  (2.0.0)

Raymond Myers:
* Suggested [JACKSON-810]: Deserialization Feature: Allow unknown Enum values via 
  'DeserializationFeature.READ_UNKNOWN_ENUM_VALUES_AS_NULL'
  (2.0.0)

Ryan Gardner:
* Contributed [pull-5] -- Add support for maps with java.util.Locale keys 
  to the set of StdKeyDeserializers
  (2.0.1)

Razvan Dragut:
* Suggested [JACKSON-850]: Allow use of zero-arg factory methods as "default creator"
  (2.1.0)

Duncan Atkinson:
* Reported [JACKSON-851]: State corruption with ObjectWriter, DefaultPrettyPrinter
  (2.1.0)

Mark Wolfe:
* Suggested [Issue#45]: Add `@JsonNaming()` for per-class naming strategy overrides
  (2.1.0)

Dmitry Katsubo:
* Contributed patch for [Issue#65]: Add getters to `ObjectMapper`, DeserializationContext, 
  DeserializationFactory.
  (2.1.0)
Francis Galiegue:
* Reported [Issue#93] (and suggested fix): bug in `ObjectMapper.setAll(...)` implementation
(2.1.1)

kelaneren@github:
* Reported [Issue#157], contributed unit test: NPE when registering same module twice.
(2.1.4)

Eric Tschetter (cheddar@github):
* Reported issues #166, #167, #170 (regressions from 1.9.x to 2.x)
(2.1.4)

Thierry D (thierryd@github)
* Reported #214: Problem with LICENSE, NOTICE, Android packaging
(2.2.2)

Luke G-H (lukegh@github)
* Reported #223: Duplicated nulls with @JsonFormat(shape=Shape.ARRAY)
(2.2.2)

Karl Moore (karldmoore@github)
* Reported #217: JsonProcessingExceptions not all wrapped as expected
(2.2.2)

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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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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
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use both them and the Library together in an executable that you
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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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

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1.341 jackson-module-JAXB-annotations

2.3.2

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1.342 jackson-xc 1.9.2

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1.343 Jadira Usertype SPI Classes for Hibernate 3.2.0.GA

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1.344 janino 2.5.16

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1.345 jansson 2.4
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copy of the library already present on the user's computer system,
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Version 2.1, February 1999

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==================================================================
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The binary file of the original library has been modified by Atlassian in such way that classes have changed their package name from 'com.google.common' to 'clover.com.google.common'. 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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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

Author:

Nicolas Garcia Belmonte

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lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
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include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
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Contributors to bttv:

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 Hojlund 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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Ralph Metzler <rjkm@metzlerbros.de>
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for his LIRC infrared handler

Andreas Oberritter <obi@linuxtv.org>  
Dennis Noermann <dennis.noermann@noernet.de>  
Felix Domke <tmbinc@elitedvb.net>  
Florian Schirmer <jolt@tuxbox.org>  
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Peter Beutner <p.beutner@gmx.net>
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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.

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

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 *
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
* combined, allow nicstar_free_rx_skb to be called to
* recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
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*
* M. Welsh, 6 July 1996
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Please keep the following list in alphabetical order.

Suman Anna
Sripal Bagadia
Felipe Balbi
Ohad Ben-Cohen
Phil Carmody
Deepak Chitriki
Felipe Contreras
Hiroshi Doyu
Seth Forshee
Ivan Gomez Castellanos
Mark Grosen
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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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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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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_dup_name.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_exp.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
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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If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

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

You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.
Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

@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.

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

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Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.
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@end enumerate
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@center END OF TERMS AND CONDITIONS
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@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
@end smallexample

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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 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.

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

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

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<signature of Ty Coon>, 1 April 1989
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1.488 libnfsidmap 0.25 :11.el7
1.488.1 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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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.

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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.

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

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

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If such an object file uses only numerical parameters, data
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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.
However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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1.514 libX11 1.6.0 :2.1.el7

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-----------------------------------------------
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_USB_DEVICEFS` - 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:

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

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

```bash
$ 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:

```bash
$ 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 ioctl's 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:

```c
__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.

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

enum go7007_aspect_ratio 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
__u32                        Bit-wise OR of control flags (below)
flags

Flags in struct go7007_comp_params:

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.

GO7007_IOC_S_MPEG_PARAMS, GO7007_IOC_G_MPEG_PARAMS

These ioctls 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 GO7007_IOC_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                        Bit-wise OR of control flags (below)
flags
__u32                        The profile and level indication to be
pali 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
GO7007_MPEG4_PROFILE_AS_L5

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 ioctl's 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 -vdevice /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

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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agere_sta_fw.bin -- 9.48 Hermes I
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The Linux driver architecture was based on two modules, the MSF (Module specific functions) and the HCF (Hardware Control Functions). Included in the HCF is run-time firmware (binary format) which is downloaded into the RAM of the Hermes 1/2/2.5 WMAC.

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Firmware provided as part of an XC5000 Linux developers kit by Brian Mathews <bmathews@xceive.com> to Devin Heitmueller <dheitmueller@linuxtv.org> on July 1, 2009.

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 *
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 *
 * $Id: sha2.c,v 1.1 2001/11/08 00:01:51 adg Exp adg $
 */

File: LLM_sp_sha2.c

/*
 * FILE: sha2.h
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 * this includes inlined list.h safe for userspace.
 *
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 *
 * Authors:
 *    Jerome Glisse
 *    Dave Airlie
 */

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*
*$Id: sha2.h,v 1.1 2001/11/08 00:02:01 adg Exp adg $
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File: comm_lib.h

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

3.

/* crypto/aes/aes.h -*- mode:C; c-file-style: "eay" -*- */
/* ====================================================================*/
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*
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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>
 * @author Paulo Barreto <paulo.barreto@terra.com.br>
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Dr B. R. Gladman <brg@gladman.uk.net> 1st June 2001.

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)
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_INCPP 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_INCPP 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_INCPP 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 build, using the same
# context.CompileProg(text, ext)
# Function called to compile a program, using "ext" for
# the file extention. 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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tagre_sta_fw.bin -- 9.48 Hermes I 
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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/>.

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>
</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.

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

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
```
Flags in struct go7007_comp_params:

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 ioctls 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                        Bit-wise OR of control flags (below)
flags
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
GO7007_MPEG4_PROFILE_AS_L5

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 ioctls 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 -vdevice /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

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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The firmware files "dvb-usb-it9135-01.fw" and "dvb-usb-it9135-02.fw" are for ITEtech it9135 Ax and Bx chip versions.

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Firmware provided as part of an XC5000C Linux developers kit by Ramon Cazares <Ramon.Cazares@CrestaTech.com> to Devin Heitmueller dheitmueller@linuxtv.org on July 25, 2012.

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

* Frodo Looijaard
  Original author of libsensors, sensors-detect, sensors and isadump.
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  Original author of sensord.
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  Many optimizations in libsensors and sensors.
  Configuration file converter.
Rewrite of sensors-detect.
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    analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
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* imap_gssapi.c is partially derived from sample code in:
* GSS-API Programming Guide
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Network Working Group    H. Krawczyk
Request for Comments: 2104    IBM
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Appendix -- Sample Code

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

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Version 1.1

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Version 2, June 1991

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== MariaDB ==

The Debian package of MySQL was first debianized 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

MariaDB can be downloaded from http://downloads.askmonty.org/mariadb/

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

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

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a
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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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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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# ck-copyright-notice can be run from the tools directory
dir=`pwd`
[ -d src ] || [ "$dir" != tools ] || cd..

# Note: if paragraphs are reformatted, this may need to be updated.

lgpl=`sed -n '/version [0-9.]* or any later version/ { s/.*/version // s/ or.*// p q } doc/mpfr.texi'"
# Do not use "find ... | while read file do ... done" because the "do"
# part needs to be run in the current shell, and some shells behave in
# a different way.
srctests=`find src tests -name '*.[ch]'`

err=0
for file in $srctests
do
  y=""
case $file in
  tests/RRTest.c)
    # This file doesn't have a copyright notice, but isn't distributed.
    continue ;;
  src/mpfr-longlong.h)
    # This file (which comes from GMP) has a specific copyright notice.
    continue ;;
  src/get_patches.c)
    file="tools/get_patches.sh" ;;
  */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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1.573 msg-simple 1.1

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1.578 ncurses 5.9

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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.

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

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"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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On all platforms, Nmap is normally linked with:

- libpcap: Network packet capture library. Distributed with Nmap in the libpcap subdirectory.
  http://www.tcpdump.org/
- libdnet: Networking library, used for low-level tasks such as sending ethernet frames. A modified version is distributed with Nmap in the libdnet-stripped subdirectory. A summary of Nmap-local modifications is in the file NMAP_MODIFICATIONS.
  http://code.google.com/p/libdnet/
- PCRE: Perl-compatible regular expressions. PCRE is part of Nmap's version detection and is also made available as an NSE library. Distributed with Nmap in the libpcre subdirectory.
  http://www.pcre.org/
- liblua: Lua programming language. Lua is the implementation language of NSE, the Nmap Scripting Engine. Nmap links with liblua to allow running Lua programs inside Nmap. Distributed with Nmap in the liblua subdirectory. liblua can be omitted by configuring with the --without-liblua configuration directive.
  http://www.lua.org/
- OpenSSL: Cryptographic library. OpenSSL is used by service detection and by NSE to connect to SSL services. NSE also provides access to OpenSSL functions such as encryption and digest calculation. OpenSSL can be disabled by configuring with the --without-openssl configuration directive.
  http://www.openssl.org/
- LIBLINEAR. Used for IPv6 OS classification.
  http://www.csie.ntu.edu.tw/~cjlin/liblinear/
- libsvn. The Subversion library, used by the updater program nmap-update.
  http://subversion.apache.org/

On Windows only, Nmap uses:

- WinPcap: libpcap for Windows. The libpcap license applies to WinPcap, and it also has its own license. A binary copy of the library is distributed with Nmap in the subdirectory mswin32/winpcap.
  http://www.winpcap.org/
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:
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The Mac OS binary packages also include:
o Various X.org libraries. These were built using MacPorts.
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Written by: Philip Hazel
Email local part: ph10
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The basic library functions are written in C and are freestanding. Also included in the distribution is a set of C++ wrapper functions.

THE BASIC LIBRARY FUNCTIONS
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Written by: Philip Hazel
Email local part: ph10
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* * *

The following individuals contributed in part to the Network Time
Protocol Distribution Version 4 and are acknowledged as authors of
this work.

1. [1]Takao Abe <takao_abe@xurb.jp> Clock driver for JJY receivers
2. [2]Mark Andrews <mark_andrews@isc.org> Leitch atomic clock
   controller
3. [3]Bernd Altmeier <altmeier@atlsoft.de> hopf Elektronik serial
   line and PCI-bus devices
   <kirkwood@striderfm.intel.com> port to WindowsNT 3.5
5. [6]Michael Barone <michael.barone@lmco.com> GPSVME fixes
6. [7]Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
7. [8]Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT
port. Clean up recvbuf and iosignal code into separate modules.
8. [9]Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
9. [10]Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver,
    Trimble PARSE support
10. [11]Nelson B Bolyard <nelson@bolyard.me> update and complete
    broadcast and crypto features in snntp
11. [12]Jean-Francois Boudreault
    <Jean-Francois.Boudreault@viagenie.qc.ca> IPv6 support
12. [13]Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)
13. [14]Steve Clift <clift@ml.csiro.au> OMEGA clock driver
14. [15]Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and
    help with target configuration
15. [16]Sven Dietrich <sven_dietrich@trimble.com> Palisade reference
    clock driver, NT adj. residuals, integrated Greg's Winnt port.
17. [18]Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux
    port
18. [19]Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for
    NTP Version 2 as specified in RFC-1119
19. [20]John Hay <jhay@icomtek.csir.co.za> IPv6 support and testing
20. [21]Dave Hart <davehart@davehart.com> General maintenance, Windows
    port interpolation rewrite
21. [22]Claas Hilbrecht <neoclock4x@linum.com> NeoClock4X clock driver
22. [23]Glenn Hollinger <glenn@herald.usask.ca> GOES clock driver
23. [24]Mike Iglesias <iglesias@uci.edu> DEC Alpha port
24. [25]Jim Jagielski <jim@jagubox.gsfc.nasa.gov> A/UX port
25. [26]Jeff Johnson <jbj@chatham.usdesign.com> massive prototyping
    overhaul
26. [27]Hans Lambermont <Hans.Lambermont@nl.origin-it.com> or
    [28]<H.Lambermont@chello.nl> ntpswEEP
27. [29]Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original
    author)
    driver (>14 reference clocks), STREAMS modules for PARSE, support
    scripts, syslog cleanup, dynamic interface handling
29. [32]William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX
    modifications, HPUX modifications
30. [33]Dave Katz <dkatz@cisco.com> RS/6000 AIX port
31. [34]Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox
    GPS clock driver
32. [35]George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
33. [36]Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
34. [37]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation
    code for Version 3 as specified in RFC-1305
35. [38]Danny Mayer <mayer@ntp.org> Network I/O, Windows Port, Code
    Maintenance
36. [39]David L. Mills <mills@udel.edu> Version 4 foundation: clock
discipline, authentication, precision kernel; clock drivers:
Spectracom, Austron, Arbiter, Heath, ATOM, ACTS, KSI/Odetics; audio clock drivers: CHU, WWV/H, IRIG

37. [40] Wolfgang Moeller <moeller@gwdg1.dnet.gwdg.de> VMS port
38. [41] Jeffrey Mogul <mogul@pa.dec.com> ntptrace utility
39. [42] Tom Moore <tmoore@fievel.daytonoh.ncr.com> i386 svr4 port
40. [43] Kamal A Mostafa <kamal@whence.com> SCO OpenServer port
41. [44] Derek Mulcahy <derek@toybox.demon.co.uk> and [45] Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
42. [46] Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code maintenance
43. [47] Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling
44. [48] Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
45. [49] Wilfredo Sanchez <wsanchez@apple.com> added support for NetInfo
46. [50] Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
47. [51] Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
48. [52] Ray Schnitzler <schnitz@unipress.com> Unixware1 port
49. [53] Michael Shields <shields@tembel.org> USNO clock driver
50. [54] Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
51. [55] Harlan Stenn <sharlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
52. [56] Kenneth Stone <ken@sdd.hp.com> HP-UX port
53. [57] Ajit Thyagarajan <ajit@ee.udel.edu> IP multicast/anycast support
54. [58] Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp> TRAK clock driver
55. [59] Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
56. [60] Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

References

1. mailto:%20takao_abe@xurb.jp
2. mailto:%20mark_andrews@isc.org
3. mailto:%20altmeier@atsoft.de
4. mailto:%20vbais@mailman1.intel.co
5. mailto:%20kirkwood@striderfm.intel.com
6. mailto:%20michael.barone@lmco.com
7. mailto:%20karl@owl.HQ.ileaf.com
8. mailto:%20greg.brackley@bigfoot.com
9. mailto:%20Marc.Brett@westgeo.com
10. mailto:%20Piete.Brooks@cl.cam.ac.uk
11. mailto:%20nelson@bolyard.me
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    <jar name='ant.jar' />
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</module>

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      version='2.5'
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      description='Annotations of JCIP'>
  <jar name='none (part of src tree: org.jgroups.annotations)' />
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</module>

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  <jar name='serializer.jar' />
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</module>

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      version='2.4.D1'
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      description='Xalan-Java is an XSLT processor for transforming XML documents.
Used to generate HTML test reports from XML (testing time)'>
  <jar name='xalan.jar' />
</module>
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* @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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1.614 org.eclipse.persistence.moxy 2.5.0

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Daniel Savarese <dfs at savarese.org> is the original author of the
OROMatcher, PerlTools, AwkTools, and TextTools packages that became
the Jakarta-ORO project.

Jon Stevens <jon at collab.net> helped prepare the first release of
jakarta-oro and is a constant help in keeping the project consistent
with the Jakarta project as a whole.

Takashi Okamoto <tokamot at rd.nttdata.co.jp> has contributed a unicode
character class fix and an initial posix character class implementation.

Mark Murphy <markm at tyrell.com> has contributed performance
improvements to Perl5Substitution as well as adding support for
\UuLlE and escaping of $.

Michael Davey <michael.davey at coderage.org> fixed some documentation and
added a missing int substitute(...) method to Perl5Util.

Harald Kuhn <harald at ontopia.net> updated
MatchActionProcessor.processMatches() to accommodate character encodings.

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 */

package org.osgi.framework;

import java.io.IOException;
import java.io.InputStream;
import java.net.URL;
import java.util.Dictionary;
import java.util.Enumeration;

/**
 * An installed bundle in the Framework.
 *
 * <p>
 * A <code>Bundle</code> object is the access point to define the lifecycle of
 * an installed bundle. Each bundle installed in the OSGi environment must have
 * an associated <code>Bundle</code> object.
 * 
 * <p>
 * A bundle must have a unique identity, a <code>long</code>, chosen by the
 * Framework. This identity must not change during the lifecycle of a bundle,
* even when the bundle is updated. Uninstalling and then reinstalling the
* bundle must create a new unique identity.
*
* <p>
* A bundle can be in one of six states:
* <ul>
* <li>{@link #UNINSTALLED}
* <li>{@link #INSTALLED}
* <li>{@link #RESOLVED}
* <li>{@link #STARTING}
* <li>{@link #STOPPING}
* <li>{@link #ACTIVE}
* </ul>
* <p>
* Values assigned to these states have no specified ordering; they represent
* bit values that may be ORed together to determine if a bundle is in one of
* the valid states.
*
* <p>
* A bundle should only execute code when its state is one of
* <code>STARTING</code>, <code>ACTIVE</code>, or <code>STOPPING</code>. An <code>UNINSTALLED</code> bundle can not be set to another state; it is a
* zombie and can only be reached because references are kept somewhere.
*
* <p>
* The Framework is the only entity that is allowed to create
* <code>Bundle</code> objects, and these objects are only valid within the
* Framework that created them.
*
* @ThreadSafe
* @version $Revision: 1.54 $
*/
public interface Bundle {
/**
 * The bundle is uninstalled and may not be used.
 *
 * <p>
 * The <code>UNINSTALLED</code> state is only visible after a bundle is
 * uninstalled; the bundle is in an unusable state but references to the
 * <code>Bundle</code> object may still be available and used for
 * introspection.
 * <p>
 * The value of <code>UNINSTALLED</code> is 0x00000001.
 */
public static final int UNINSTALLED = 0x00000001;

/**
 * The bundle is installed but not yet resolved.
A bundle is in the <code>INSTALLED</code> state when it has been installed in the Framework but is not or cannot be resolved.

This state is visible if the bundle's code dependencies are not resolved. The Framework may attempt to resolve an <code>INSTALLED</code> bundle's code dependencies and move the bundle to the <code>RESOLVED</code> state.

The value of <code>INSTALLED</code> is 0x00000002.

```java
public static final int INSTALLED = 0x00000002;
```

A bundle is in the <code>RESOLVED</code> state when the Framework has successfully resolved the bundle's code dependencies. These dependencies include:

- The bundle's class path from its `@link Constants#BUNDLE_CLASSPATH` Manifest header.
- The bundle's package dependencies from its `@link Constants#EXPORT_PACKAGE` and `@link Constants#IMPORT_PACKAGE` Manifest headers.
- The bundle's required bundle dependencies from its `@link Constants#REQUIRE_BUNDLE` Manifest header.
- A fragment bundle's host dependency from its `@link Constants#FRAGMENT_HOST` Manifest header.

Note that the bundle is not active yet. A bundle must be put in the <code>RESOLVED</code> state before it can be started. The Framework may attempt to resolve a bundle at any time.

The value of <code>RESOLVED</code> is 0x00000004.

```java
public static final int RESOLVED = 0x00000004;
```

A bundle is in the process of starting.

The bundle is in the <code>STARTING</code> state when its `@link #start(int) start` method is active. A bundle must be in this state when the bundle's `@link BundleActivator#start` is called. If the
* <code>BundleActivator.start</code> method completes without exception,
* then the bundle has successfully started and must move to the
* <code>ACTIVE</code> state.

* <p>
* If the bundle has a
* [{@link Constants#ACTIVATION_LAZY lazy activation policy}], then the
* bundle may remain in this state for some time until the activation is
* triggered.
* <p>
* The value of <code>STARTING</code> is 0x00000008.
*/
public static final int STARTING = 0x00000008;

/**
 * The bundle is in the process of stopping.
 * <p>
 * A bundle is in the <code>STOPPING</code> state when its
 * [{@link #stop(int) stop} method is active. A bundle must be in this state
 * when the bundle's [{@link BundleActivator#stop} method is called. When the
 * <code>BundleActivator.stop</code> method completes the bundle is
 * stopped and must move to the <code>RESOLVED</code> state.
* <p>
* The value of <code>STOPPING</code> is 0x00000010.
*/
public static final int STOPPING = 0x00000010;

/**
 * The bundle is now running.
 * <p>
 * A bundle is in the <code>ACTIVE</code> state when it has been
 * successfully started and activated.
* <p>
* The value of <code>ACTIVE</code> is 0x00000020.
*/
public static final int ACTIVE = 0x00000020;

/**
 * The bundle start operation is transient and the persistent autostart
 * setting of the bundle is not modified.
 * <p>
 * This bit may be set when calling [{@link start(int)} to notify the
 * framework that the autostart setting of the bundle must not be modified.
 * If this bit is not set, then the autostart setting of the bundle is
 * modified.
 *
/**
 * The bundle start operation must activate the bundle according to the
 * bundle's declared
 * [link Constants#BUNDLE_ACTIVATIONPOLICY activation policy].
 *
 * This bit may be set when calling [link start(int)] to notify the
 * framework that the bundle must be activated using the bundle's declared
 * activation policy.
 *
 * [since 1.4]
 * [see Constants#BUNDLE_ACTIVATIONPOLICY]
 * [see #start(int)]
 */

public static final int START_TRANSIENT = 0x00000001;

/**
 * The bundle stop is transient and the persistent autostart setting of the
 * bundle is not modified.
 *
 * This bit may be set when calling [link stop(int)] to notify the
 * framework that the autostart setting of the bundle must not be modified.
 * If this bit is not set, then the autostart setting of the bundle is
 * modified.
 *
 * [since 1.4]
 * [see #stop(int)]
 */

public static final int STOP_TRANSIENT = 0x00000001;

/**
 * Returns this bundle's current state.
 *
 * A bundle can be in only one state at any time.
 *
 */

public int getState();
/**
 * Starts this bundle.
 *
 * <p>
 * If this bundle's state is UNINSTALLED then an
 * IllegalStateException is thrown.
 * <p>
 * If the Framework implements the optional Start Level service and the
 * current start level is less than this bundle's start level:
 * <ul>
 * <li>If the '{@link #START_TRANSIENT}' option is set, then a
 * <code>BundleException</code> is thrown indicating this bundle cannot be
 * started due to the Framework's current start level.
 * <p>
 * <li>Otherwise, the Framework must set this bundle's persistent autostart
 * setting to Started with declared activation if the
 * '{@link #START_ACTIVATION_POLICY}' option is set or
 * Started with eager activation if not set.
 * <p>
 * <li>When the Framework's current start level becomes equal to or more than
 * this bundle's start level, this bundle will be started.
 * <p>
 * <li>Otherwise, the following steps are required to start this bundle:
 * <ol>
 * <li>If this bundle is in the process of being activated or deactivated
 * then this method must wait for activation or deactivation to complete
 * before continuing. If this does not occur in a reasonable time, a
 * <code>BundleException</code> is thrown to indicate this bundle was
 * unable to be started.
 * <p>
 * <li>If this bundle's state is ACTIVE then this method
 * returns immediately.
 * <p>
 * <li>If the '{@link #START_TRANSIENT}' option is not set then set this
 * bundle's autostart setting to Started with declared activation if the
 * '{@link #START_ACTIVATION_POLICY}' option is set or
 * Started with eager activation if not set. When the Framework
 * is restarted and this bundle's autostart setting is not Stopped,
 * this bundle must be automatically started.
 * <p>
 * <li>If this bundle's state is not RESOLVED, an attempt
 * is made to resolve this bundle. If the Framework cannot resolve this
 * bundle, a <code>BundleException</code> is thrown.
 * <p>
 * <li>If the '{@link Constants#ACTIVATION_LAZY}' option is set and this
 * bundle's declared activation policy is
 * '{@link Constants#ACTIVATION_LAZY'} then:
* If this bundle's state is `STARTING` then this method returns immediately.
* This bundle's state is set to `STARTING`.
* A bundle event of type [@link BundleEvent#LAZY_ACTIVATION] is fired.
* This method returns immediately and the remaining steps will be followed when this bundle's activation is later triggered.

* This bundle's state is set to `STARTING`.
* A bundle event of type [@link BundleEvent#STARTING] is fired.
* The [@link BundleActivator#start] method of this bundle's `BundleActivator` is called. If the `BundleActivator` is invalid or throws an exception then:
  * This bundle's state is set to `STOPPING`.
  * A bundle event of type [@link BundleEvent#STOPPING] is fired.
  * Any services registered by this bundle must be unregistered.
  * Any services used by this bundle must be released.
  * Any listeners registered by this bundle must be removed.
  * This bundle's state is set to `RESOLVED`.
  * A bundle event of type [@link BundleEvent#STOPPED] is fired.
  * A `BundleException` is then thrown.

* If this bundle's state is `UNINSTALLED`, because this bundle was uninstalled while the `BundleActivator.start` method was running, a `BundleException` is thrown.
* This bundle's state is set to `ACTIVE`.
* A bundle event of type [@link BundleEvent#STARTED] is fired.

**Preconditions**

* `getState()` in {`INSTALLED`, `RESOLVED`} or {`INSTALLED`, `RESOLVED`, `STARTING`} if this bundle has a lazy activation policy.

**Postconditions, no exceptions thrown**

* `getState()` in `{`ACTIVE`}` unless the
* lazy activation policy was used.
* <li><code>BundleActivator.start()</code> has been called and did not
* throw an exception unless the lazy activation policy was used.
* </ul>
* <b>Postconditions, when an exception is thrown</b>
* <ul>
* <li>Depending on when the exception occurred, bundle autostart setting
* is modified unless the {@link #START_TRANSIENT} option was set.
* <li><code>getState()</code> not in {<code>STARTING</code>,
* <code>ACTIVE</code>}
* </ul>
* @param options The options for starting this bundle. See
*        {@link #START_TRANSIENT} and {@link #START_ACTIVATION_POLICY}.
*        The Framework must ignore unrecognized options.
* @throws BundleException If this bundle could not be started. This could
*         be because a code dependency could not be resolved or the
*         specified <code>BundleActivator</code> could not be loaded or
*         threw an exception or this bundle is a fragment.
* @throws java.lang.IllegalStateException If this bundle has been
*         uninstalled or this bundle tries to change its own state.
* @throws java.lang.SecurityException If the caller does not have the
*         appropriate <code>AdminPermission[<code>this,EXECUTE]</code>, and
*         the Java Runtime Environment supports permissions.
* @since 1.4
*/
public void start(int options) throws BundleException;

/**
* Starts this bundle with no options.
* *
* This method calls <code>start(0)</code>.
* *
* @throws BundleException If this bundle could not be started. This could
*         be because a code dependency could not be resolved or the
*         specified <code>BundleActivator</code> could not be loaded or
*         threw an exception or this bundle is a fragment.
* @throws java.lang.IllegalStateException If this bundle has been
*         uninstalled or this bundle tries to change its own state.
* @throws java.lang.SecurityException If the caller does not have the
*         appropriate <code>AdminPermission[this,EXECUTE]</code>, and
*         the Java Runtime Environment supports permissions.
* @see #start(int)
*/
public void start() throws BundleException;

/**
* Stops this bundle.

* The following steps are required to stop a bundle:

  * <ol>
  * <li> If this bundle's state is <code>UNINSTALLED</code> then an <code>IllegalStateException</code> is thrown.
  * <li> If this bundle is in the process of being activated or deactivated then this method must wait for activation or deactivation to complete before continuing. If this does not occur in a reasonable time, a <code>BundleException</code> is thrown to indicate this bundle was unable to be stopped.
  * <li> If the { @link #STOP_TRANSIENT} option is not set then then set this bundle's persistent autostart setting to to <em>Stopped</em>. When the Framework is restarted and this bundle's autostart setting is <em>Stopped</em>, this bundle must not be automatically started.
  * <li> If this bundle's state is not <code>ACTIVE</code> then this method returns immediately.
  * <li> This bundle's state is set to <code>STOPPING</code>.
  * <li> A bundle event of type { @link BundleEvent#STOPPING} is fired.
  * <li> The { @link BundleActivator#stop} method of this bundle's <code>BundleActivator</code>, if one is specified, is called. If that method throws an exception, this method must continue to stop this bundle. A <code>BundleException</code> must be thrown after completion of the remaining steps.
  * <li> Any services registered by this bundle must be unregistered.
  * <li> Any services used by this bundle must be released.
  * <li> Any listeners registered by this bundle must be removed.
  * <li> If this bundle's state is <code>UNINSTALLED</code>, because this bundle was uninstalled while the <code>BundleActivator.stop</code> method was running, a <code>BundleException</code> must be thrown.
  * <li> This bundle's state is set to <code>RESOLVED</code>.
  * <li> A bundle event of type { @link BundleEvent#STOPPED} is fired.
  * </ol>

* <b>Preconditions</b>

  * <ul>
  * <li> <code>getState()</code> in {<code>ACTIVE</code>}. 
  * </ul>
* Postconditions, no exceptions thrown

* Bundle autostart setting is modified unless the
  * Global STOP_TRANSIENT option was set.
  * <code>getState()</code> not in {<code>ACTIVE</code>,
  * <code>STOPPING</code>}
  * <code>BundleActivator.stop</code> has been called and did not
  * throw an exception.

* Postconditions, when an exception is thrown

* Bundle autostart setting is modified unless the
  * Global STOP_TRANSIENT option was set.

* @param options The options for stopping this bundle. See
  * Global STOP_TRANSIENT. The Framework must ignore unrecognized
  * options.
  * @throws BundleException If this bundle's <code>BundleActivator</code>
  * threw an exception or this bundle is a fragment.
  * @throws java.lang.IllegalStateException If this bundle has been
  * uninstalled or this bundle tries to change its own state.
  * @throws java.lang.SecurityException If the caller does not have the
  * appropriate <code>AdminPermission[this,EXECUTE]</code>, and
  * the Java Runtime Environment supports permissions.
  * @since 1.4
*/
public void stop(int options) throws BundleException;

/**
* Stops this bundle with no options.
*
* This method calls <code>stop(0)</code>.
*
* @throws BundleException If this bundle's <code>BundleActivator</code>
* threw an exception or this bundle is a fragment.
* @throws java.lang.IllegalStateException If this bundle has been
* uninstalled or this bundle tries to change its own state.
* @throws java.lang.SecurityException If the caller does not have the
* appropriate <code>AdminPermission[this,EXECUTE]</code>, and
* the Java Runtime Environment supports permissions.
* @see #start(int)
*/
public void stop() throws BundleException;

/**
* Updates this bundle.
*  <p>
*  If this bundle's state is <code>ACTIVE</code>, it must be stopped
*  before the update and started after the update successfully completes.
*  
*  <p>
*  If this bundle has exported any packages, these packages must not be
*  updated. Instead, the previous package version must remain exported until
*  the <code>PackageAdmin.refreshPackages</code> method has been has been
*  called or the Framework is relaunched.
*  
*  <p>
*  The following steps are required to update a bundle:
*  <ol>
*  <li>If this bundle's state is <code>UNINSTALLED</code> then an
*     <code>IllegalStateException</code> is thrown.
*  
*  <li>If this bundle's state is <code>ACTIVE</code>,
*     <code>STARTING</code> or <code>STOPPING</code>, this bundle is
*     stopped as described in the <code>Bundle.stop</code> method. If
*     <code>Bundle.stop</code> throws an exception, the exception is rethrown
*     terminating the update.
*  
*  <li>The download location of the new version of this bundle is
*     determined from either this bundle's
*     [@link Constants#BUNDLE_UPDATELOCATION] Manifest header (if available) or
*     this bundle's original location.
*  
*  <li>The location is interpreted in an implementation dependent manner,
*     typically as a URL, and the new version of this bundle is obtained from
*     this location.
*  
*  <li>The new version of this bundle is installed. If the Framework is
*     unable to install the new version of this bundle, the original version of
*     this bundle must be restored and a <code>BundleException</code> must be
*     thrown after completion of the remaining steps.
*  
*  <li>If this bundle has declared an Bundle-RequiredExecutionEnvironment
*     header, then the listed execution environments must be verified against
*     the installed execution environments. If they do not all match, the
*     original version of this bundle must be restored and a
*     <code>BundleException</code> must be thrown after completion of the
*     remaining steps.
*  
*  <li>This bundle's state is set to <code>INSTALLED</code>.
*  
*  <li>If the new version of this bundle was successfully installed, a
*     bundle event of type {@link BundleEvent#UPDATED} is fired.
If this bundle's state was originally <code>ACTIVE</code>, the updated bundle is started as described in the <code>Bundle.start()</code> method. If <code>Bundle.start()</code> throws an exception, a Framework event of type [@link FrameworkEvent#ERROR] is fired containing the exception.

**Preconditions**

- <code>getState()</code> not in {<code>UNINSTALLED</code>}

**Postconditions, no exceptions thrown**

- <code>getState()</code> in {<code>INSTALLED</code>,<code>RESOLVED</code>,<code>ACTIVE</code>}
- This bundle has been updated.

**Postconditions, when an exception is thrown**

- <code>getState()</code> in {<code>INSTALLED</code>,<code>RESOLVED</code>,<code>ACTIVE</code>}
- Original bundle is still used; no update occurred.

@throws BundleException If the update fails.
@throws java.lang.IllegalStateException If this bundle has been uninstalled or this bundle tries to change its own state.
@throws java.lang.SecurityException If the caller does not have the appropriate <code>AdminPermission[this,LIFECYCLE]</code> for both the current bundle and the updated bundle, and the Java Runtime Environment supports permissions.
@see #stop()
@see #start()
@param in The <code>InputStream</code> from which to read the new bundle.
@throws BundleException If the provided stream cannot be read or the update fails.
@throws java.lang.IllegalArgumentException If this bundle has been uninstalled or this bundle tries to change its own state.
@throws java.lang.SecurityException If the caller does not have the appropriate <code>AdminPermission[this,LIFECYCLE]</code> for both the current bundle and the updated bundle, and the Java Runtime Environment supports permissions.
@see #update()

public void update(InputStream in) throws BundleException;

/**
 * Uninstalls this bundle.
 *
 * <p>
 * This method causes the Framework to notify other bundles that this bundle is being uninstalled, and then puts this bundle into the <code>UNINSTALLED</code> state. The Framework must remove any resources related to this bundle that it is able to remove.
 *
 * <p>
 * If this bundle has exported any packages, the Framework must continue to make these packages available to their importing bundles until the <code>PackageAdmin.refreshPackages</code> method has been called or the Framework is relaunched.
 *
 * <p>
 * The following steps are required to uninstall a bundle:
 *
 * <ol>
 * <li>If this bundle's state is <code>UNINSTALLED</code> then an <code>IllegalStateException</code> is thrown.
 * <li>If this bundle's state is <code>ACTIVE</code>, <code>STARTING</code> or <code>STOPPING</code>, this bundle is stopped as described in the <code>Bundle.stop</code> method. If <code>Bundle.stop</code> throws an exception, a Framework event of type <code>FrameworkEvent#ERROR</code> is fired containing the exception.
 * <li>This bundle's state is set to <code>UNINSTALLED</code>.
 * <li>A bundle event of type <code>BundleEvent#UNINSTALLED</code> is fired.
 * <li>This bundle and any persistent storage area provided for this bundle by the Framework are removed.
 * </ol>
@throws BundleException If the uninstall failed. This can occur if
    another thread is attempting to change this bundle's state and
does not complete in a timely manner.
@throws java.lang.IllegalStateException If this bundle has been
    uninstalled or this bundle tries to change its own state.
@throws java.lang.SecurityException If the caller does not have the
    appropriate <code>AdminPermission[this,LIFECYCLE]</code>, and
the Java Runtime Environment supports permissions.
@see #stop()

public void uninstall() throws BundleException;

/**
 * Returns this bundle's Manifest headers and values. This method returns
 * all the Manifest headers and values from the main section of this
 * bundle's Manifest file; that is, all lines prior to the first blank line.
 *
 * Manifest header names are case-insensitive. The methods of the returned
 * <code>Dictionary</code> object must operate on header names in a
 * case-insensitive manner.
 *
 * If a Manifest header value starts with "%", it must be
 * localized according to the default locale.
 *
 * For example, the following Manifest headers and values are included if
 * they are present in the Manifest file:
 *
 * <pre>
 *     Bundle-Name
 *     Bundle-Vendor
 */
public Dictionary getHeaders();

/**
 *
 * Returns this bundle's unique identifier. This bundle is assigned a unique
 * identifier by the Framework when it was installed in the OSGi
 * environment.
 * *
 * @return The unique identifier of this bundle.
 */
public long getBundleId();

/**
 * Returns this bundle's location identifier.
 * *
 */
The location identifier is the location passed to BundleContext.installBundle when a bundle is installed. The location identifier does not change while this bundle remains installed, even if this bundle is updated.

This method must continue to return this bundle's location identifier while this bundle is in the UNINSTALLED state.

@return The string representation of this bundle's location identifier.
@throws java.lang.SecurityException If the caller does not have the appropriate AdminPermission[this, METADATA], and the Java Runtime Environment supports permissions.

public String getLocation();

Returns this bundle's ServiceReference list for all services it has registered or null if this bundle has no registered services.

If the Java runtime supports permissions, a ServiceReference object to a service is included in the returned list only if the caller has the ServicePermission to get the service using at least one of the named classes the service was registered under.

The list is valid at the time of the call to this method, however, as the Framework is a very dynamic environment, services can be modified or unregistered at anytime.

@return An array of ServiceReference objects or null.
@throws java.lang.IllegalStateException If this bundle has been uninstalled.
@see ServiceRegistration
@see ServiceReference
@see ServicePermission

public ServiceReference[] getRegisteredServices();

Returns this bundle's ServiceReference list for all services it is using or returns null if this bundle is not using any services. A bundle is considered to be using a service if its use count for that service is greater than zero.
If the Java Runtime Environment supports permissions, a ServiceReference object to a service is included in the returned list only if the caller has the ServicePermission to get the service using at least one of the named classes the service was registered under. The list is valid at the time of the call to this method, however, as the Framework is a very dynamic environment, services can be modified or unregistered at anytime.

@return An array of ServiceReference objects or null.
@throws java.lang.IllegalStateException If this bundle has been uninstalled.
@see ServiceReference
@see ServicePermission

public ServiceReference[] getServicesInUse();

/**
 * Determines if this bundle has the specified permissions.
 *
 * @param permission The permission to verify.
 *
 * @return true if this bundle has the specified permission or the permissions possessed by this bundle imply the specified permission; false if this bundle does not have the specified permission or permission is not an instance of java.security.Permission.
 *
 * @throws java.lang.IllegalStateException If this bundle has been uninstalled.
 */

Open Source Used In  Cisco Identity Services Engine 2.3
public boolean hasPermission(Object permission);

/**
 * Find the specified resource from this bundle.
 *
 * This bundle's class loader is called to search for the specified
 * resource. If this bundle's state is <code>INSTALLED</code>, this
 * method must attempt to resolve this bundle before attempting to get the
 * specified resource. If this bundle cannot be resolved, then only this
 * bundle must be searched for the specified resource. Imported packages
 * cannot be searched when this bundle has not been resolved. If this bundle
 * is a fragment bundle then <code>null</code> is returned.
 *
 * @param name The name of the resource. See
 *        <code>java.lang.ClassLoader.getResource</code> for a description
 *        of the format of a resource name.
 * @return A URL to the named resource, or <code>null</code> if the
 *         resource could not be found or if this bundle is a fragment
 *         bundle or if the caller does not have the appropriate
 *         <code>AdminPermission[this,RESOURCE]</code>, and the Java
 *         Runtime Environment supports permissions.
 *
 * @since 1.1
 * @throws java.lang.IllegalStateException If this bundle has been
 *         uninstalled.
 * @see #getEntry
 * @see #findEntries
 *

public URL getResource(String name);

/**
 * Returns this bundle's Manifest headers and values localized to the
 * specified locale.
 *
 * This method performs the same function as
 * <code>Bundle.getHeaders()</code> except the manifest header values are
 * localized to the specified locale.
 *
 * If a Manifest header value starts with &quot;%&quot;, it must be
 * localized according to the specified locale. If a locale is specified and
 * cannot be found, then the header values must be returned using the
 * default locale. Localizations are searched for in the following order:
 *
 * <pre>
Where `<code>bn</code>` is this bundle's localization basename, `<code>Ls</code>`, `<code>Cs</code>` and `<code>Vs</code>` are the specified locale (language, country, variant) and `<code>Ld</code>`, `<code>Cd</code>` and `<code>Vd</code>` are the default locale (language, country, variant).

If `<code>null</code>` is specified as the locale string, the header values must be localized using the default locale. If the empty string `<code>""</code>` is specified as the locale string, the header values must not be localized and the raw (unlocalized) header values, including any leading `<code>%</code>` must be returned.

This method must continue to return Manifest header information while this bundle is in the `<code>UNINSTALLED</code>` state, however the header values must only be available in the raw and default locale values.

@see #getHeaders()
@see Constants#BUNDLE_LOCALIZATION
@since 1.3

```
public Dictionary getHeaders(String locale);
```
* `<code>Bundle-SymbolicName</code>` manifest header. The name must be
* unique, it is recommended to use a reverse domain name naming convention
* like that used for java packages. If this bundle does not have a
* specified symbolic name then `<code>null</code>` is returned.
* 
* `<p>`
* This method must continue to return this bundle's symbolic name while
* this bundle is in the `<code>UNINSTALLED</code>` state.
* 
* `@return` The symbolic name of this bundle.
* `@since 1.3`
* `/`
public String getSymbolicName();

/**
 * Loads the specified class using this bundle's classloader.
 * 
 * `<p>`
 * If this bundle is a fragment bundle then this method must throw a
 * `<code>ClassNotFoundException</code>`.
 * 
 * `<p>`
 * If this bundle's state is `<code>INSTALLED</code>`, this method must
 * attempt to resolve this bundle before attempting to load the class.
 * 
 * `<p>`
 * If this bundle cannot be resolved, a Framework event of type
 * `{ @link FrameworkEvent#ERROR }` is fired containing a
 * `<code>BundleException</code>` with details of the reason this bundle
 * could not be resolved. This method must then throw a
 * `<code>ClassNotFoundException</code>`.
 * 
 * `<p>`
 * If this bundle's state is `<code>UNINSTALLED</code>`, then an
 * `<code>IllegalStateException</code>` is thrown.
 * 
 * `@param name` The name of the class to load.
 * `@return` The Class object for the requested class.
 * `@throws java.lang.ClassNotFoundException` If no such class can be found or
 * if this bundle is a fragment bundle or if the caller does not
 * have the appropriate `<code>AdminPermission[this,CLASS]</code>`,
 * and the Java Runtime Environment supports permissions.
 * `@throws java.lang.IllegalStateException` If this bundle has been
 * uninstalled.
 * `@since 1.3`
* `/`
public Class loadClass(String name) throws ClassNotFoundException;
/*
 * Find the specified resources from this bundle.
 *
 * This bundle's class loader is called to search for the specified resources. If this bundle's state is INSTALLED, this method must attempt to resolve this bundle before attempting to get the specified resources. If this bundle cannot be resolved, then only this bundle must be searched for the specified resources. Imported packages cannot be searched when a bundle has not been resolved. If this bundle is a fragment bundle then null is returned.
 *
 * @param name The name of the resource. See java.lang.ClassLoader.getResources for a description of the format of a resource name.
 * @return An enumeration of URLs to the named resources, or null if the resource could not be found or if this bundle is a fragment bundle or if the caller does not have the appropriate AdminPermission[this,RESOURCE], and the Java Runtime Environment supports permissions.
 *
 * @since 1.3
 * @throws java.lang.IllegalStateException If this bundle has been uninstalled.
 * @throws java.io.IOException If there is an I/O error.
 */

public Enumeration getResources(String name) throws IOException;

/**
 * Returns an Enumeration of all the paths (String objects) to entries within this bundle whose longest sub-path matches the specified path. This bundle's classloader is not used to search for entries. Only the contents of this bundle are searched.
 * <p>
 * The specified path is always relative to the root of this bundle and may begin with a / or :. A path value of / indicates the root of this bundle.
 * <p>
 * Returned paths indicating subdirectory paths end with a / or :.
 * The returned paths are all relative to the root of this bundle and must not begin with / or :
 *
 * @param path The path name for which to return entry paths.
 * @return An Enumeration of the entry paths (String objects) or null if no entry could be found or if the caller does not have the appropriate AdminPermission[this,RESOURCE] and the Java Runtime Environment supports permissions.
 * @throws java.lang.IllegalStateException If this bundle has been uninstalled.
 */

public Enumeration getEntries(String path) throws IOException;
public Enumeration getEntryPaths(String path);

/**
 * Returns a URL to the entry at the specified path in this bundle. This
 * bundle's classloader is not used to search for the entry. Only the
 * contents of this bundle are searched for the entry.
 * *
 * @param path The path name of the entry.
 * @return A URL to the entry, or null if no entry could be
 *         found or if the caller does not have the appropriate
 *         AdminPermission[this,RESOURCE] and the Java
 *         Runtime Environment supports permissions.
 * @throws java.lang.IllegalStateException If this bundle has been
 *         uninstalled.
 * @since 1.3
 */
public URL getEntry(String path);

/**
 * Returns the time when this bundle was last modified. A bundle is
 * considered to be modified when it is installed, updated or uninstalled.
 * *
 * @return The time when this bundle was last modified.
 * @since 1.3
 */
public long getLastModified();

/**
 * Returns entries in this bundle and its attached fragments. This bundle's
 * classloader is not used to search for entries. Only the contents of this
 * bundle and its attached fragments are searched for the specified entries.
 * *
 * If this bundle's state is INSTALLED, this method must
 * attempt to resolve this bundle before attempting to find entries.
 * *
 * @param path The path name of the entry.
 * @return A URL to the entry, or null if no entry could be
 *         found or if the caller does not have the appropriate
 *         AdminPermission[this,RESOURCE] and the Java
 *         Runtime Environment supports permissions.
 * @throws java.lang.IllegalStateException If this bundle has been
 *         uninstalled.
 * @since 1.3
 */
public Enumeration getEntryPath(String path, String path);
This method is intended to be used to obtain configuration, setup, localization and other information from this bundle. This method takes into account that the contents of this bundle can be extended with fragments. This bundle space is not a namespace with unique members; the same entry name can be present multiple times. This method therefore returns an enumeration of URL objects. These URLs can come from different JARs but have the same path name. This method can either return only entries in the specified path or recurse into subdirectories returning entries in the directory tree beginning at the specified path. Fragments can be attached after this bundle is resolved, possibly changing the set of URLs returned by this method. If this bundle is not resolved, only the entries in the JAR file of this bundle are returned.

Examples:

```java
// List all XML files in the OSGI-INF directory and below
Enumeration e = b.findEntries("OSGI-INF", ".*.xml", true);

// Find a specific localization file
Enumeration e = b.findEntries("OSGI-INF/l10n", "bundle_nl_DU.properties", false);
if (e.hasMoreElements())	return (URL) e.nextElement();
```

@<code>param</code> path The path name in which to look. The path is always relative to the root of this bundle and may begin with "/" A path value of "/" indicates the root of this bundle.

@<code>param</code> filePattern The file name pattern for selecting entries in the specified path. The pattern is only matched against the last element of the entry path and it supports substring matching, as specified in the Filter specification, using the wildcard character ("*"). If null is specified, this is equivalent to "/" and matches all files.

@<code>param</code> recurse If <code>true</code>, recurse into subdirectories. Otherwise only return entries from the specified path.

@<code>return</code> An enumeration of URL objects for each matching entry, or <code>null</code> if an entry could not be found or if the caller does not have the appropriate <code>AdminPermission[readonly]</code>, and the Java Runtime Environment supports permissions. The URLs are sorted such that entries from this bundle are returned first followed by the entries from attached fragments in ascending bundle id order. If this bundle is a fragment, then only matching entries in this fragment are returned.
public Enumeration findEntries(String path, String filePattern, boolean recurse);

/**
 * Returns this bundle's <code>BundleContext</code>. The returned
 * <code>BundleContext</code> can be used by the caller to act on behalf
 * of this bundle.
 * *
 * @return A <code>BundleContext</code> for this bundle or
 *         <code>null</code> if this bundle has no valid
 *         <code>BundleContext</code>.
 * @throws java.lang.SecurityException If the caller does not have the
 *         appropriate <code>AdminPermission</code>, and
 *         the Java Runtime Environment supports permissions.
 * @since 1.4
 */
public BundleContext getBundleContext();
}

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1.633 pciutils 3.2.1
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--------------------------------------------------------------------------

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

---------------------------------------------------------------
---
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the
  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
This module is free software; you can redistribute it and/or
modify it under the same terms as Perl itself.
use strict;
use lib '/lib';
use MBTest;
use DistGen;
plan 'no_plan';

# Ensure any Module::Build modules are loaded from correct directory
blib_load('Module::Build');

#---------------------------------------------------------------#
# Create test distribution
#---------------------------------------------------------------#

{
my $dist = DistGen->new(
   name => 'Simple::Name',
   version => '0.01',
   license => 'perl'
);

$dist->regen;
$dist->chdir_in;

my $mb = $dist->new_from_context();
isa_ok( $mb, "Module::Build" );
is( $mb->license, 'perl',
   "license 'perl' is valid" );

my $meta = $mb->get_metadata( fatal => 0 );
is( $meta->{license} => 'perl', "META license will be 'perl'" );
is( $meta->{resources}{license}, "http://dev.perl.org/licenses/",
   "META license URL is correct" );

}

{
my $dist = DistGen->new(
   name => 'Simple::Name',
   version => '0.01',
   license => 'VaporWare'
);

$dist->regen;
$dist->chdir_in;

my $mb = $dist->new_from_context();
isa_ok( $mb, "Module::Build" );
is( $mb->license, 'VaporWare',
   "license 'VaporWare' is valid" )
}
my $meta = $mb->get_metadata( fatal => 0 );

is( $meta->{license} => 'unrestricted', "META license will be 'unrestricted'" );
is( $meta->{resources}{license}, "http://example.com/vaporware/",
   "META license URL is correct"
);

} # Test with alpha number
# vim:ts=2:sw=2:et:sta:sts=2

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1.649 perl-Newt 1.08 :36.el7

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

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However, linking a "work that uses the Library" with the Library
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Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
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Whether this is true is especially significant if the work can be
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If such an object file uses only numerical parameters, data
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functions (ten lines or less in length), then the use of the object
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work. (Executables containing this object code plus portions of the
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Otherwise, if the work is a derivative of the Library, you may
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Any executables containing that work also fall under Section 6,
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1.671 poi-ooxml 3.10.1

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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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0. This License Agreement applies to any software library which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Library
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.

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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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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Ty Coon, President of Vice

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Version 3, 29 June 2007


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

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

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

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.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

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
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5. Conveying Modified Source Versions.

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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
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
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of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the
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to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the
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The requirement to provide Installation Information does not include a requirement to continue to provide support
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/* dirname.c -- return all but the last element in a file name

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/* Return the length of the prefix of FILE that will be used by
dir_name. If FILE is in the working directory, this returns zero
even though ‘dir_name (FILE)’ will return ".". Works properly even
if there are trailing slashes (by effectively ignoring them). */

size_t
dir_len (char const *file)
{
    size_t prefix_length = FILE_SYSTEM_PREFIX_LEN (file);
    size_t length;

    /* Advance prefix_length beyond important leading slashes. */
    prefix_length += (prefix_length != 0
        ? (FILE_SYSTEM_DRIVE_PREFIX_CAN_BE_RELATIVE
            && ISSLASH (file[prefix_length]))
            : (ISSLASH (file[0])
            ? ((DOUBLE_SLASH_IS_DISTINCT_ROOT
                && ISLASH (file[1]) && ! ISLASH (file[2])
                ? 2 : 1))
                : 0));

    /* Strip the basename and any redundant slashes before it. */
    for (length = last_component (file) - file;
        prefix_length < length; length--)
        if (! ISLASH (file[length - 1]))
            break;
    return length;
}

/* In general, we can't use the builtin 'dirname' function if available,
since it has different meanings in different environments.
In some environments the builtin 'dirname' modifies its argument.

Return the leading directories part of FILE, allocated with malloc.
Works properly even if there are trailing slashes (by effectively
ignoring them). Return NULL on failure.

If lstat (FILE) would succeed, then { chdir (dir_name (FILE));
    lstat (base_name (FILE)); } will access the same file. Likewise,
if the sequence { chdir (dir_name (FILE));

rename (base_name (FILE), "foo"); } succeeds, you have renamed FILE to "foo" in the same directory FILE was in. */

char *
mdir_name (char const *file)
{
    size_t length = dir_len (file);
    bool append_dot = (length == 0
                       || (FILE_SYSTEM_DRIVE_PREFIX_CAN_BE_RELATIVE
                           && length == FILE_SYSTEM_PREFIX_LEN (file)
    char *dir = malloc (length + append_dot + 1);
    if (!dir)
        return NULL;
    memcpy (dir, file, length);
    if (append_dot)
        dir[length++] = '.';
    dir[length] = '\0';
    return dir;
}
/* basename.c -- return the last element in a file name

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#include <config.h>

#include "dirname.h"

#include <string.h>

/* Return the address of the last file name component of NAME.  If
NAME has no relative file name components because it is a file
system root, return the empty string. */
char *
last_component (char const *name)
{
    char const *base = name + FILE_SYSTEM_PREFIX_LEN (name);
    char const *p;
    bool saw_slash = false;

    while (ISSlash (*base))
        base++;

    for (p = base; *p; p++)
    {
        if (ISSlash (*p))
            saw_slash = true;
        else if (saw_slash)
        {
            base = p;
            saw_slash = false;
        }
    }

    return (char *) base;
}

/* Return the length of the basename NAME. Typically NAME is the
   value returned by base_name or last_component. Act like strlen
   (NAME), except omit all trailing slashes. */

size_t
base_len (char const *name)
{
    size_t len;
    size_t prefix_len = FILE_SYSTEM_PREFIX_LEN (name);

    for (len = strlen (name); 1 < len && ISSlash (name[len - 1]); len--)
        continue;

    if (DOUBLE_SLASH_IS_DISTINCT_ROOT && len == 1
        && ISSlash (name[0]) && ISSlash (name[1]) && ! name[2])
        return 2;

    if (FILE_SYSTEM_DRIVE_PREFIX_CAN_BE_RELATIVE && prefix_len
        && len == prefix_len && ISSlash (name[prefix_len]))
        return prefix_len + 1;

    return len;
}
/* Return the canonical absolute name of a given file.
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#ifndef _LIBC
/* Don't use __attribute__ __nonnull__ in this compilation unit. Otherwise gcc
   optimizes away the name == NULL test below. */
#define _GL_ARG_NONNULL(params)
#define _GL_USE_STDLIB_ALLOC 1
#include <config.h>
#endif

#if !HAVE_CANONICALIZE_FILE_NAME || !FUNC_REALPATH_WORKS || defined _LIBC
/* Specification. */
#include <stdlib.h>
#include <alloca.h>
#include <string.h>
#include <unistd.h>
#include <limits.h>
#if HAVE_SYS_PARAM_H || defined _LIBC
#include <sys/param.h>
#endif
#include <sys/stat.h>
#include <errno.h>
#include <stddef.h>
#ifdef _LIBC
#include <shlib-compat.h>
#else
#define SHLIB_COMPAT(lib, introduced, obsoleted) 0
#define versioned_symbol(lib, local, symbol, version) extern int dummy
#define compat_symbol(lib, local, symbol, version)
#endif

#endif

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6269
# define weak_alias(local, symbol)
# define __canonicalize_file_name canonicalize_file_name
# define __realpath realpath
# include "pathmax.h"
# include "malloca.h"
# include "dosname.h"
# if HAVE_GETCWD
# if IN_RELOCWRAPPER
   /* When building the relocatable program wrapper, use the system's getcwd
      function, not the gnulib override, otherwise we would get a link error.
   */
   # undef getcwd
# endif
# ifdef VMS
   /* We want the directory in Unix syntax, not in VMS syntax. */
   # define __getcwd(buf, max) getcwd (buf, max, 0)
# else
   # define __getcwd getcwd
# endif
# else
   # define __getcwd(buf, max) getwd (buf)
# endif
# define __readlink readlink
# define __set_errno(e) errno = (e)
# ifndef MAXSYMLINKS
#  ifdef SYMLOOP_MAX
   # define MAXSYMLINKS SYMLOOP_MAX
#  else
   # define MAXSYMLINKS 20
#  endif
# endif
# ifndef DOUBLE_SLASH_IS_DISTINCT_ROOT
# define DOUBLE_SLASH_IS_DISTINCT_ROOT 0
# endif
# if !FUNC_REALPATH_WORKS || defined _LIBC
   /* Return the canonical absolute name of file NAME. A canonical name
      does not contain any ".", "." components nor any repeated path
      separators (\') or symlinks. All path components must exist. If
      RESOLVED is null, the result is malloc'd; otherwise, if the
      canonical name is PATH_MAX chars or more, returns null with 'errno'
      set to ENAMETOOLONG; if the name fits in fewer than PATH_MAX chars,
      returns the name in RESOLVED. If the name cannot be resolved and
      RESOLVED is non-NULL, it contains the path of the first component
      that cannot be resolved. If the path can be resolved, RESOLVED
      holds the same value as the value returned. */
}
char *
__realpath (const char *name, char *resolved)
{
char *rpath, *dest, *extra_buf = NULL;
const char *start, *end, *rpath_limit;
long int path_max;
int num_links = 0;
size_t prefix_len;

if (name == NULL)
{
    /* As per Single Unix Specification V2 we must return an error if
       either parameter is a null pointer. We extend this to allow
       the RESOLVED parameter to be NULL in case the we are expected to
       allocate the room for the return value. */
    __set_errno (EINVAL);
    return NULL;
}

if (name[0] == '\0')
{
    /* As per Single Unix Specification V2 we must return an error if
       the name argument points to an empty string. */
    __set_errno (ENOENT);
    return NULL;
}

#ifdef PATH_MAX
    path_max = PATH_MAX;
#else
    path_max = pathconf (name, _PC_PATH_MAX);
    if (path_max <= 0)
        path_max = 8192;
#endif

if (resolved == NULL)
{
    rpath = malloc (path_max);
    if (rpath == NULL)
    {
        /* It's easier to set errno to ENOMEM than to rely on the
           'malloc-posix' gnulib module. */
        errno = ENOMEM;
        return NULL;
    }
}

else
rpath = resolved;
rpath_limit = rpath + path_max;

/* This is always zero for Posix hosts, but can be 2 for MS-Windows and MS-DOS X:/foo/bar file names. */
prefix_len = FILE_SYSTEM_PREFIX_LEN (name);

if (!IS_ABSOLUTE_FILE_NAME (name))
{
    if (!__getcwd (rpath, path_max))
    {
        rpath[0] = '\0';
goto error;
    }
    dest = strchr (rpath, '\0');
    start = name;
prefix_len = FILE_SYSTEM_PREFIX_LEN (rpath);
}
else
{
    dest = rpath;
    if (prefix_len)
    {
        memcpy (rpath, name, prefix_len);
        dest += prefix_len;
    }
    *dest++ = '/';
    if (DOUBLE_SLASH_IS_DISTINCT_ROOT)
    {
        if (ISSLASH (name[1]) && !ISSLASH (name[2]) && !prefix_len)
            *dest++ = '/';
        *dest = '\0';
    }
    start = name + prefix_len;
}

for (end = start; *start; start = end)
{
#ifndef __LIBC
struct stat64 st;
#else
struct stat st;
#endif
int n;

    /* Skip sequence of multiple path-separators. */
    while (ISSLASH (*start))
        ++start;
/* Find end of path component. */
for (end = start; *end && !ISSLASH (*end); ++end)
  /* Nothing. */

if (end - start == 0)
  break;
else if (end - start == 1 && start[0] == '.')
  /* nothing */
else if (end - start == 2 && start[0] == '.' && start[1] == '.')
  {
    /* Back up to previous component, ignore if at root already. */
    if (dest > rpath + prefix_len + 1)
      for (--dest; dest > rpath && !ISSLASH (dest[-1]); --dest)
        continue;
    if (DOUBLE_SLASH_IS_DISTINCT_ROOT
        && dest == rpath + 1 && !prefix_len
        && ISSLASH (*dest) && !ISSLASH (dest[1]))
      dest++;
    else
    {
      size_t new_size;

      if (!ISSLASH (dest[-1]))
        *dest++ = '/';

      if (dest + (end - start) >= rpath_limit)
        {
          ptrdiff_t dest_offset = dest - rpath;
          char *new_rpath;

          if (resolved)
          {
            __set_errno (ENAMETOOLONG);
            if (dest > rpath + prefix_len + 1)
              dest--;
            *dest = '\0';
            goto error;
          }
          new_size = rpath_limit - rpath;
          if (end - start + 1 > path_max)
            new_size += end - start + 1;
          else
            new_size += path_max;
          new_rpath = (char *) realloc (rpath, new_size);
          if (new_rpath == NULL)
            {

/* It's easier to set errno to ENOMEM than to rely on the
 'realloc-posix' gnulib module. */
 errno = ENOMEM;
goto error;
}

rpath = new_rpath;
rpath_limit = rpath + new_size;

dest = rpath + dest_offset;
}

#ifdef _LIBC
   dest = __mempcpy (dest, start, end - start);
#else
   memcpy (dest, start, end - start);
   dest += end - start;
#endif

*dest = '\0';

#ifdef _LIBC
   if (__lxstat64 (_STAT_VER, rpath, &st) < 0)
#else
   if (lstat (rpath, &st) < 0)
#endif
   goto error;

if (S_ISLNK (st.st_mode))
{
   char *buf;
   size_t len;

   if (++num_links > MAXSYMLINKS)
   {
      __set_errno (ELOOP);
      goto error;
   }

   buf = malloca (path_max);
   if (!buf)
   {
      errno = ENOMEM;
      goto error;
   }

   n = __readlink (rpath, buf, path_max - 1);
   if (n < 0)
   {
      int saved_errno = errno;
freea (buf);
errno = saved_errno;
goto error;
buf[n] = '\0';

if (!extra_buf)
{
    extra_buf = malloc (path_max);
    if (!extra_buf)
    {
        freea (buf);
        errno = ENOMEM;
        goto error;
    }
}

len = strlen (end);
if ((long int) (n + len) >= path_max)
{
    freea (buf);
    __set_errno (ENAMETOOLONG);
    goto error;
}

/* Careful here, end may be a pointer into extra_buf... */
memmove (&extra_buf[n], end, len + 1);
name = end = memcpy (extra_buf, buf, n);

if (IS_ABSOLUTE_FILE_NAME (buf))
{
    size_t pfxlen = FILE_SYSTEM_PREFIX_LEN (buf);

    if (pfxlen)
        memcpy (rpath, buf, pfxlen);
    dest = rpath + pfxlen;
    *dest++ = '/'; /* It's an absolute symlink */
    if (DOUBLE_SLASH_IS_DISTINCT_ROOT)
    {
        if (ISSLASH (buf[1]) && !ISSLASH (buf[2]) && !pfxlen)
            *dest++ = '/';
        *dest = '\0';
    }
    /* Install the new prefix to be in effect hereafter. */
    prefix_len = pfxlen;
}
else
{


/ Back up to previous component, ignore if at root
   already: */
   if (dest > rpath + prefix_len + 1)
     for (--; dest > rpath & & !ISSLASH (dest[-1]); --dest)
       continue;
   if (DOUBLE_SLASH_IS_DISTINCT_ROOT & & dest == rpath + 1
    & & ISSLASH (*dest) & & !ISSLASH (dest[1]) & & !prefix_len)
     dest++;
   }
   }
else if (!S_ISDIR (st.st_mode) & & *end != '\0')
  {
    __set_errno (ENOTDIR);
    goto error;
  }
  }
if (dest > rpath + prefix_len + 1 & & ISSLASH (dest[-1]))
  --dest;
if (DOUBLE_SLASH_IS_DISTINCT_ROOT & & dest == rpath + 1 & & !prefix_len
  & & ISSLASH (*dest) & & !ISSLASH (dest[1]))
  dest++;
  *dest = '\0';

if (extra_buf)
  freea (extra_buf);

return rpath;

error:
  {
    int saved_errno = errno;
    if (extra_buf)
      freea (extra_buf);
    if (resolved == NULL)
      free (rpath);
    errno = saved_errno;
  }
return NULL;
}
versioned_symbol (libc, __realpath, realpath, GLIBC_2_3);
#endif /* !FUNC_REALPATH_WORKS || defined _LIBC */
#if SHLIB_COMPAT(libc, GLIBC_2_0, GLIBC_2_3)
char *
attribute_compat_text_section
__old_realpath (const char *name, char *resolved)
{if (resolved == NULL)
{
  __set_errno (EINVAL);
  return NULL;
}
return __realpath (name, resolved);
}
compat_symbol (libc, __old_realpath, realpath, GLIBC_2_0);
#endif

char *
__canonicalize_file_name (const char *name)
{
  return __realpath (name, NULL);
}
weak_alias (__canonicalize_file_name, canonicalize_file_name)
#else
/* This declaration is solely to ensure that after preprocessing
this file is never empty. */
typedef int dummy;
#endif

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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
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Intellectual Property. Zope Corporation is a sponsoring member of
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1.704 python-backports 1.0 :8.el7

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1.705 python-backports-ssl_match_hostname

3.4.0.2 :4.el7

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1.706 python-configobj 4.7.2 :7.el7
1.706.1 Available under license :
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1.707 python-dateutil 1.5 :7.el7
1.707.1 Available under license :

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1.711 python-gudev 147.2

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1.712 python-hwdata 1.7.3

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1.713 python-iniparse 0.4 :9.el7
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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.

<table>
<thead>
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<th>Release</th>
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1.716 python-pycurl 7.19.0

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1.719 python-setuptools 0.9.8 :3.el7

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1.720 python-six 1.3.0

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1.721 python-slip 0.4.0

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1.722 python-urlgrabber 3.10 :6.el7

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

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

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

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

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

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

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

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

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1.746 rhn-client-tools 2.0.2 :6.el7

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1.755 rsync 3.0.9

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1.759 sdparm 1.08 :3.el7
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1.760 sed 4.2.2 :5.el7
1.760.1 Available under license :
============
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
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
e1_l1_9
e1_l1_9
e1_l1_10
Test 1.2:102

Test 1.3:103
Test 1.4:104
Second type
Test 1.4.1:105
Test 1.5:106

s1_l1_1
s1_l1_1
s1_l1_2
s1_l1_2
s1_l1_3
s1_l1_3
s1_l1_4
s1_l1_4
s1_l1_5
s1_l1_5
s1_l1_6
s1_l1_6
s1_l1_7
s1_l1_7
s1_l1_8
s1_l1_8
s1_l1_9
s1_l1_9
s1_l1_10
s1_l1_10
s1_l1_11
s1_l1_11
s1_l1_12
s1_l1_12
s1_l1_13
s1_l1_13
s1_l1_14
s1_l1_14

Test 1.6:107

s1_l1_1
s1_l1_1
s1_l1_2
s1_l1_2
s1_l1_3
s1_l1_3
s1_l1_4
s1_l1_4
s1_l1_5
s1_l1_5
s1_l1_6
s1_l1_6
Test 1.8:109

Test 1.9:110
e1.I1_13
e2.e1.I1_13
e2.e1.I1_13
e1.I1_14
e2.e1.I1_14
e2.e1.I1_14

=============
Test 1.I4:115
==============
s1.I1_1
s2,sl.I1_1
s2,sl.I1_1
s1.I1_2
s2,sl.I1_2
s2,sl.I1_2
s1.I1_3
s2,sl.I1_3
s2,sl.I1_3
s1.I1_4
s2,sl.I1_4
s2,sl.I1_4
s1.I1_5
s2,sl.I1_5
s2,sl.I1_5
s1.I1_6
s2,sl.I1_6
s2,sl.I1_6
s1.I1_7
s2,sl.I1_7
s2,sl.I1_7
s1.I1_8
s2,sl.I1_8
s2,sl.I1_8
s1.I1_9
s2,sl.I1_9
s2,sl.I1_9
s1.I1_10
s2,sl.I1_10
s2,sl.I1_10
s1.I1_11
s2,sl.I1_11
s2,sl.I1_11
s1.I1_12
s2,sl.I1_12
s2,sl.I1_12
s1.I1_13
s2,sl.I1_13
s2_s1_l1_13
s1_l1_14
s2_s1_l1_14
s2_s1_l1_14

============= Test 1.15:116
=============
e1_l1_1
sl_e1_l1_1
sl_e1_l1_1
e1_l1_2
sl_e1_l1_2
sl_e1_l1_2
e1_l1_3
sl_e1_l1_3
sl_e1_l1_3
e1_l1_4
sl_e1_l1_4
sl_e1_l1_4
e1_l1_5
sl_e1_l1_5
sl_e1_l1_5
e1_l1_6
sl_e1_l1_6
sl_e1_l1_6
e1_l1_7
sl_e1_l1_7
sl_e1_l1_7
e1_l1_8
sl_e1_l1_8
sl_e1_l1_8
e1_l1_9
sl_e1_l1_9
sl_e1_l1_9
e1_l1_10
sl_e1_l1_10
sl_e1_l1_10
e1_l1_11
sl_e1_l1_11
sl_e1_l1_11
e1_l1_12
sl_e1_l1_12
sl_e1_l1_12
e1_l1_13
sl_e1_l1_13
sl_e1_l1_13
e1_l1_14
Test 1.16:117

s1_e1_l1_14
s1_e1_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
e1_l1_9
e1_l1_9
e1_l1_10
e1_l1_10
e1_l1_11
e1_l1_11
e1_l1_12
e1_l1_12
e1_l1_13
e1_l1_13
e1_l1_14
e1_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
Open Source Used In Cisco Identity Services Engine 2.3

6695
Test 1.18:119
============
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 address ranges

============
Test 2.1:120
============
l1_4

============
Test 2.2:121
============
l2_6

============
Test 2.3:122
============
l1_14

============
Test 2.4:123
============
l2_9

============
Test 2.5:124
============

============
Test 2.6:125
============
l2_9
Test 2.7:126
==============

==============
Test 2.9:127
==============
11_7

==============
Test 2.10:128
==============
11_7

==============
Test 2.11:129
==============
11_7

==============
Test 2.12:130
==============
11_1
11_2
11_3
11_4

==============
Test 2.13:131
==============
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

-------------
Test 2.14:132
-------------
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

-------------
Test 2.15:133
-------------
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
Test 2.18:136
Test 2.19:137
Test 2.20:138
Test 3.1:139
Test 3.2:140
Testing a c d and i commands
Test 4.1:143

before_ii1_1
before_ii1_2
before_ii1_3
before_ii1_4
before_ii1_5
before_ii1_6
before_ii1_7
before_ii1_8
before_ii1_9
before_ii1_10
before_ii1_11
before_ii1_12
before_ii1_13
before_ii1_14
before_ii2_1
before_ii2_2
before_ii2_3
before_ii2_4
before_ii2_5
before_ii2_6
inserted
before_ii2_7
before_ii2_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_a5-12I1_5
after_abefore_a5-12I1_5
appended
before_a5-12I1_6
after_abefore_a5-12I1_6
appended
before_a5-12I1_7
after_abefore_a5-12I1_7
appended
before_a5-12I1_8
after_abefore_a5-12I1_8
appended
before_a5-12I1_9
after_abefore_a5-12I1_9
appended
before_a5-12I1_10
after_abefore_a5-12I1_10
appended
before_a5-12I1_11
after_abefore_a5-12I1_11
appended
before_a5-12I1_12
after_abefore_a5-12I1_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$
apended
^l1_2
^l1_2$
apended
^l1_3
^l1_3$
apended
^l1_4
^l1_4$
apended
^l1_5
^l1_5$
apended
^l1_6
^l1_6$
apended
^l1_7
^l1_7$
apended
^l1_8
^l1_8
l1_9$
apended
^l1_10
^l1_10
l1_11$
apended
^l1_12
^l1_12$
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Test 4.4:146

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_l1_1
label3_label2_l1_1
label1_l1_2
label1_l1_3
label1_l1_4
label1_l1_5
label1_l1_6
label1_l1_7
label1_l1_8
label1_l1_9
label1_l1_10
label1_l1_11
label1_l1_12
label2_l1_13
label3_label2_l1_13
label2_l1_14
label3_label2_l1_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_5$
l1_6$
l1_6$
l1_7$
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_9$
l1_10$
l1_10$
l1_11$
l1_11$
l1_12$
l1_12$
l1_13$
l1_13$
l1_14$

==============
Test 5.5:155
==============
^l1_1
^l1_2
^l1_4
^l1_6
Test 5.6:156

Test 5.7:157

Test 5.8:158

Pattern space commands

Test 6.1:159
changed
changed
changed
changed
changed
changed
changed
changed
changed
changed

==============
Test 6.2:160
==============
l1_1
l1_2
l1_3
l1_5
l1_6
l1_7
l1_8
l1_9
l1_10
l1_11
l1_12
l1_13
l1_14

==============
Test 6.3:161
==============
l1_5
l1_6
l1_7
l1_8
l1_9
l1_10
l1_11
l1_12
l1_13
l1_14

==============
Test 6.4:162
==============
l1_1
l1_2
l1_3
l1_2
Test 6.5: 163

Test 6.6: 164

Testing print and file routines

Test 7.1: 165
Test 7.2:166

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
16
12_2
17
12_3
18
12_4
19
12_5
20
12_6
21
12_7
22
12_8
23
12_9

Test 7.3:167

--------------
Open Source Used In Cisco Identity Services Engine 2.3
6711
w results

Test 7.4:168

============
Testing substitution commands
Test 8.1:172
-----------------
XXXX
XXXX
XXXX
XXXX
XXXX
XXXX
XXXX
XXXX
XXXX
XXXX

--------------------
Test 8.2:173
-----------------
XXXX
XXXX
XXXX
XXXX
XXXX
XXXX
XXXX
XXXX
XXXX
XXXX

--------------------
Test 8.3:174
-----------------
XXXX
XXXX
XXXX
XXXX
XXXX
XXXX
XXXX
XXXX
XXXX
XXXX

--------------------
Test 8.4:175

Test 8.5:176

Test 8.6:177
Open Source Used In Cisco Identity Services Engine 2.3

Test 8.7:178

Test 8.8:179

x_x1xl1
x_x1xl2
x_x1xl3
x_x1xl4
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
u1
u212
l1u0
u1
u213
l1u0
u1
u214
============
Test 8.10:181
============
Test 8.12:183
================
1X_X
1X_X
1X_X
1X_4
1X_5
1X_6
1X_7
1X_8
1X_9
1X_X0
1X_XX
1X_XX
1X_XX
1X_X4

Test 8.13:184
================
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 8.14:185
================
18_8
18_7
18_6
18_5
18_4
18_3
18_2
18_1
18_0
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    Peter Allworth <linsol at zeta dot org dot au>,
    James Bottomley <jejb at parisc-linux dot org>,
    Lars Marowsky-Bree <lmb at suse dot de>,
    Kurt Garloff <garloff at suse dot de>,
    Grant Grundler <grundler at parisc-linux dot org>,
    Christophe Varoqui <christophe dot varoqui at free dot fr>,
    Michael Weller <eowmob at exp-math dot uni-essen dot de>,
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Peter Allworth <linsol at zeta dot org dot au>,
James Bottomley <jejb at parisc-linux dot org>,
Lars Marowsky-Bree <lmb at suse dot de>,
Kurt Garloff <garloff at suse dot de>,
Grant Grundler <grundler at parisc-linux dot org>,
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 *
 */

package org.slf4j;

import org.slf4j.helpers.BasicMarkerFactory;

import org.slf4j.helpers.BasicMarkerFactory;

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6857
import org.slf4j.helpers.Util;
import org.slf4j.impl.StaticMarkerBinder;

/**
 * MarkerFactory is a utility class producing {@link Marker} instances as
 * appropriate for the logging system currently in use.
 * *
 * <p>
 * This class is essentially implemented as a wrapper around an
 * {@link IMarkerFactory} instance bound at compile time.
 * *
 * <p>
 * Please note that all methods in this class are static.
 * *
 * @author Ceki G"um"lc"u;
 */

public class MarkerFactory {

    static IMarkerFactory markerFactory;

    private MarkerFactory() {
    }

    static {
        try {
            markerFactory = StaticMarkerBinder.SINGLETON.getMarkerFactory();
        } catch (NoClassDefFoundError e) {
            markerFactory = new BasicMarkerFactory();
        } catch (Exception e) {
            // we should never get here
            Util.report("Unexpected failure while binding MarkerFactory", e);
        }
    }

    /**
     * Return a Marker instance as specified by the name parameter using the
     * previously bound {@link IMarkerFactory} instance.
     *
     * @param name
     * @return marker
     */
    public static Marker getMarker(String name) {
        return markerFactory.getMarker(name);
    }

    /**
     * Create a marker which is detached (even at birth) from the MarkerFactory.
     */
    public static Marker getMarker(String name) {
        return markerFactory.getMarker(name);
    }

}
public static Marker getDetachedMarker(String name) {
    return markerFactory.getDetachedMarker(name);
}

/**
 * Return the IMarkerFactory instance in use.
 * <p>The IMarkerFactory instance is usually bound with this class at compile time.
 * @return the IMarkerFactory instance in use
 */
public static IMarkerFactory getIMarkerFactory() {
    return markerFactory;
}

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Version: 0.5
Author: Mario Klingemann
Contact: mario@quasimondo.com
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### 1.873 Syslog4j 0.9.30

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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
* in C (faster - it is executed many times during system startup).
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
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   (In alphabetical order)

   Tom        Kludy                    (tom.kludy@citrix.com)
   Yarek      Kowalik                  (Yarek.Kowalik@Sitraka.com)
   Edward     Lam
   Matt       Landau
   Avner      Lottem                   (avner.lottem@intel.com)
   blucas (?)                           (blucas@broadcom.com)
   Chun-Pong  Yu                        (bol.pacific.net.sg)
   TAGA       nayuta                   (nayuta@is.s.u-tokyo.ac.jp)
   Mike       Thomas                   (miketh@brisbane.paradigmgeo.com)
   Mark       Tucker                   (mtucker@fiji.sidefx.com)

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*/
/
/*
* 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).
*/
#undef POSIX
/
* POSIXJOBSThis system supports the optional IEEE Std 1003.1-1988 (POSIX)
* job control facilities.
*/
#undef 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

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 -- tcsh 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

*/
#define SYSVREL0

/*
 * YPBUGS Work around Sun YP bugs that cause expansion of ~username
 * to send command output to /dev/null
 */
#undef YPBUGS

/****************** local defines ******************/

#endif /* _h_config */

1.886 telnet 0.17 :59.el7

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Appendix: How to Apply These Terms to Your New Programs

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

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy  <author name>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.
This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

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

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

Gnomovision version 69, Copyright (C) 19yy name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

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

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

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

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

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.
Open Source Used In Cisco Identity Services Engine 2.3

1.892.1 Available under license:
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Version 2, June 1991

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Preamble

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freedom to share and change it. By contrast, the GNU General Public
License is intended to guarantee your freedom to share and change free
software--to make sure the software is free for all its users. This
General Public License applies to most of the Free Software
Foundation's software and to any other program whose authors commit to
using it. (Some other Free Software Foundation software is covered by
the GNU Lesser General Public License instead.) You can apply it to
your programs, too.

When we speak of free software, we are referring to freedom, 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 or use pieces of it
in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid
anyone to deny you these rights or to ask you to surrender the rights.
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distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether
gratis or for a fee, you must give the recipients all the rights that
you have. 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.

We protect your rights with two steps: (1) copyright the software, and
(2) offer you this license which gives you legal permission to copy,
distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain
that everyone understands that there is no warranty for this free
software. If the software is modified by someone else and passed on, we
want its recipients to know that what they have is not the original, 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 redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

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

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0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's 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 give any other recipients of the Program a copy of this License along with the Program.

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 Program or any portion of it, thus forming a work based on the Program, 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) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

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

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

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

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

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

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

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

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

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

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the
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7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

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

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

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

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10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

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END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.
To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

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

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

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

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) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

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

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

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

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

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Version 2.1, February 1999

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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

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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.

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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
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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
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Most GNU software, including some libraries, is covered by the
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libraries into non-free programs.

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

We call this license the "Lesser" General Public License because it
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Public License. It also provides other free software developers Less
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are the reason we use the ordinary General Public License for many
libraries. However, the Lesser license provides advantages in certain
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For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it becomes
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allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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

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

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

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0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

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

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

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

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

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

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

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

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

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

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

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

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square
These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.
7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df055067c18f2ecf9 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
-------------------
Create 2st primary partition
1bebf87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8d851a88a045db233418dd73f be 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 default BSD
2e1c529e59c9341afe0443f196a1 bsd.img

---layout--------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):
BSD disklabel command (m for help):
4 partitions:
  # start   end    size  fstype  [fs size bsize cpg]
c:  4096  20479  16384 unused 0 0
d:   0  16064  16065 unused 0 0

BSD disklabel command (m for help):
Command (m for help):
---------------------
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  [fs size 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):
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==============================================================================
Kibaale Children's Centre*Kcc* *Kibaale* *charity*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods.
There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

*donate*

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Further more, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:
Kibaale Children's Centre
p.o. box 1658
Masaka, Uganda, East Africa

Sending money:*iccf-donations*

Check the ICCF web site for the latest information! See [iccf] for the URL.
USA: The methods mentioned below can be used.
Sending a check to the Nehemiah Group Outreach Society (NGOS)
is no longer possible, unfortunately. We are looking for
another way to get you an IRS tax receipt.
For sponsoring a child contact KCF in Canada (see below). US
checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children’s Fund (KCF) in Surrey, Canada. They
take care of the Canadian sponsors for the children in
Kibaale. KCF forwards 100% of the money to the project in
Uganda. You can send them a one time donation directly.
Please send me a note so that I know what has been donated
because of Vim. Ask KCF for information about sponsorship.
Kibaale Children’s Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353
If you make a donation to Kibaale Children’s Fund (KCF) you
will receive a tax receipt which can be submitted with your
tax return.

Holland: Transfer to the account of “Stichting ICCF Holland” in Lisse.
This will allow for tax deduction if you live in Holland.
Postbank, nr. 4548774
IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return.
Check the ICCF web site for the latest information:
http://iccf-holland.org/germany.html

World: Use a postal money order. That should be possible from any
country, mostly from the post office. Use this name (which is
in my passport): “Abraham Moolenaar”. Use Euro for the
currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form
that you can use for this. See “Others” below for the swift
code and IBAN number.
Any other method should work. Ask for information about
sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is
the most widely used Internet based payment system. It’s
really simple to use. Use this link to find more info:
The e-mail address for sending the money to is:
Bram@iccf-holland.org
For amounts above 400 Euro ($500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:
Postbank, account 4548774
Swift code: INGB NL 2A
IBAN: NL95 INGB 0004 5487 74
under the name "stichting ICCF Holland", Lisse
If that doesn't work:
Rabobank Lisse, account 3765.05.117
Swift code: RABO NL 2U
under the name "Bram Moolenaar", Lisse
Otherwise, send a check in euro or US dollars to the address below. Minimal amount: $70 (my bank does not accept smaller amounts for foreign check, sorry)

Address to send checks to:
Bram Moolenaar
Finsterruetihof 1
8134 Adliswil
Switzerland

This address is expected to be valid for a long time.

vim:tw=78:ts=8:ft=help:norl:
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Arnaud LE HORS      BULL Research FRANCE -- Koala Project
(XPM - X PixMap format version 2 & 3)

Internet:     lehors@sophia.inria.fr
Surface Mail: Arnaud LE HORS, INRIA - Sophia Antipolis,
              2004, route des Lucioles, 06565 Valbonne Cedex -- FRANCE
Voice phone:  (33) 93.65.77.71, Fax: (33) 93 65 77 66, Telex: 97 00 50 F
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1.920 WebSocket server API 1.0

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package zipcompare;

import java.util.zip.ZipFile;
import java.util.zip.ZipEntry;
import java.util.*;
import java.io.IOException;
import java.io.InputStream;

public class ZipCompare
{
    public static void main(String[] args)
    {
        if (args.length != 2)
        {
            System.out.println("Usage: zipcompare [file1] [file2]");
            System.exit(1);
        }

        ZipFile file1;
        try { file1 = new ZipFile(args[0]); } catch (IOException e) { System.out.println("Could not open zip file " + args[0] + ": " + e); System.exit(1); return; }

        ZipFile file2;
        try { file2 = new ZipFile(args[1]); } catch (IOException e) { System.out.println("Could not open zip file " + args[0] + ": " + e); System.exit(1); return; }

        System.out.println("Comparing " + args[0] + " with " + args[1] + ":");

        Set set1 = new LinkedHashSet();
        for (Enumeration e = file1.entries(); e.hasMoreElements(); )
            set1.add(((ZipEntry)e.nextElement()).getName());

        Set set2 = new LinkedHashSet();
        for (Enumeration e = file2.entries(); e.hasMoreElements(); )
            set2.add(((ZipEntry)e.nextElement()).getName());

        int errcount = 0;
        int filecount = 0;
        for (Iterator i = set1.iterator(); i.hasNext(); )
        {
            String name = (String)i.next();
            if (!set2.contains(name))
            {
                System.out.println("File " + name + " not in file2");
                errcount++;
            }
            filecount++;
        }

        System.out.println("Set1: " + set1.size() + " elements");
        System.out.println("Set2: " + set2.size() + " elements");
        System.out.println("Files in file1 but not in file2: " + errcount);
        System.out.println("Files in file2 but not in file1: 0");
        System.out.println("Files in both: " + filecount);
        System.out.println("Total: " + (errcount + filecount));
    }
}
if (!set2.contains(name))
{
    System.out.println(name + " not found in " + args[1]);
    errcount += 1;
    continue;
}
try
{
    set2.remove(name);
    if (!streamsEqual(file1.getInputStream(file1.getEntry(name)), file2.getInputStream(file2.getEntry(name))))
    {
        System.out.println(name + " does not match");
        errcount += 1;
        continue;
    }
}
catch (Exception e)
{
    System.out.println(name + ": IO Error "+ e);
    e.printStackTrace();
    errcount += 1;
    continue;
}
filecount += 1;
}
for (Iterator i = set2.iterator(); i.hasNext(); )
{
    String name = (String)i.next();
    System.out.println(name + " not found in " + args[0]);
    errcount += 1;
}
System.out.println(filecount + " entries matched");
if (errcount > 0)
{
    System.out.println(errcount + " entries did not match");
    System.exit(1);
}
System.exit(0);
}
static boolean streamsEqual(InputStream stream1, InputStream stream2) throws IOException
{
    byte[] buf1 = new byte[4096];
    byte[] buf2 = new byte[4096];
    boolean done1 = false;
    boolean done2 = false;
    try
while (!done1)
{
    int off1 = 0;
    int off2 = 0;

    while (off1 < buf1.length)
    {
        int count = stream1.read(buf1, off1, buf1.length - off1);
        if (count < 0)
        {
            done1 = true;
            break;
        }
        off1 += count;
    }

    while (off2 < buf2.length)
    {
        int count = stream2.read(buf2, off2, buf2.length - off2);
        if (count < 0)
        {
            done2 = true;
            break;
        }
        off2 += count;
    }

    if (off1 != off2 || done1 != done2)
    return false;

    for (int i = 0; i < off1; i++)
    {
        if (buf1[i] != buf2[i])
        return false;
    }

    return true;
}

finally { stream1.close(); stream2.close(); }

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1.947 XMLTooling 1.4.1

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1.948 xom 1.0

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