Open Source Used In Identity Services Engine 2.4

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1.6 abdera-parser 0.4.0-incubating

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-- activemq-web

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- javaee_web_services_client_1_3.xsd
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- web-app_3_0.xsd
- web-common_3_0.xsd
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- web-common_3_0.xsd
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- web-common_3_1.xsd
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*
* */
package org.apache.http.osgi.impl;

import java.util.Locale;
import java.util.Map;
import java.util.regex.Matcher;
import java.util.regex.Pattern;
import org.apache.http.HttpException;
import org.apache.http.HttpHost;
import org.apache.http.HttpRequest;
import org.apache.http.impl.conn.DefaultRoutePlanner;
import org.apache.http.osgi.services.ProxyConfiguration;
import org.osgi.framework.BundleContext;
import org.osgi.framework.ServiceRegistration;

/**
 * @since 4.3
 */
final class OSGiHttpRoutePlanner extends DefaultRoutePlanner {

    private static final String DOT = ".";

    /**
     * The IP mask pattern against which hosts are matched.
     */
    public static final Pattern IP_MASK_PATTERN = Pattern.compile("^([01]\?\d\d?|2\[0-4]\d|25[0-5])\.$") +
            "([01]\?\d\d?|2\[0-4]\d|25[0-5])\.$" +
            "([01]\?\d\d?|2\[0-4]\d|25[0-5])\.$" +
            "([01]\?\d\d?|2\[0-4]\d|25[0-5])\.$");
private final BundleContext bundleContext;

private final Map<String, ServiceRegistration> registeredConfigurations;

public OSGiHttpRoutePlanner(
    final BundleContext bundleContext,
    final Map<String, ServiceRegistration> registeredConfigurations) {
    super(null);
    this.bundleContext = bundleContext;
    this.registeredConfigurations = registeredConfigurations;
}

/**
 * {@inheritDoc}
 */
@Override
protected HttpHost determineProxy(final HttpHost target, final HttpRequest request, final HttpContext context)
throws HttpException {
    ProxyConfiguration proxyConfiguration = null;

    for (final ServiceRegistration registration : registeredConfigurations.values()) {
        final Object proxyConfigurationObject = bundleContext.getService(registration.getReference());
        if (proxyConfigurationObject != null) {
            proxyConfiguration = (ProxyConfiguration) proxyConfigurationObject;
            if (proxyConfiguration.isEnabled()) {
                for (final String exception : proxyConfiguration.getProxyExceptions()) {
                    if (createMatcher(exception).matches(target.getHostName())) {
                        return null;
                    } else {
                        return new HttpHost(proxyConfiguration.getHostname(), proxyConfiguration.getPort());
                    }
                }
            }
        }
    }

    return null;
}

private static HostMatcher createMatcher(final String name) {
    final NetworkAddress na = NetworkAddress.parse(name);
    if (na != null) {
        return new IPAddressMatcher(na);
    }
    if (name.startsWith(DOT)) {
        return new DomainNameMatcher(name);
    }

    return null;
}
return new HostNameMatcher(name);
}

private static interface HostMatcher {
    boolean matches(String host);
}

private static class HostNameMatcher implements HostMatcher {
    private final String hostName;

    HostNameMatcher(final String hostName) {
        this.hostName = hostName;
    }

    @Override
    public boolean matches(final String host) {
        return hostName.equalsIgnoreCase(host);
    }
}

private static class DomainNameMatcher implements HostMatcher {
    private final String domainName;

    DomainNameMatcher(final String domainName) {
        this.domainName = domainName.toLowerCase(Locale.ROOT);
    }

    @Override
    public boolean matches(final String host) {
        return host.toLowerCase(Locale.ROOT).endsWith(domainName);
    }
}

private static class IPAddressMatcher implements HostMatcher {
    private final NetworkAddress address;

    IPAddressMatcher(final NetworkAddress address) {
        this.address = address;
    }

    @Override
    public boolean matches(final String host) {
final NetworkAddress hostAddress = NetworkAddress.parse(host);
return hostAddress != null && address.address == (hostAddress.address & address.mask);
}

private static class NetworkAddress {

final int address;
final int mask;

static NetworkAddress parse(final String adrSpec) {
if (null != adrSpec) {
    final Matcher nameMatcher = IP_MASK_PATTERN.matcher(adrSpec);
    if (nameMatcher.matches()) {
        try {
            final int i1 = toInt(nameMatcher.group(1), 255);
            final int i2 = toInt(nameMatcher.group(2), 255);
            final int i3 = toInt(nameMatcher.group(3), 255);
            final int i4 = toInt(nameMatcher.group(4), 255);
            final int ip = i1 << 24 | i2 << 16 | i3 << 8 | i4;

            int mask = toInt(nameMatcher.group(6), 32);
            mask = (mask == 32) ? -1 : -1 - (-1 >>> mask);

            return new NetworkAddress(ip, mask);
        } catch (final NumberFormatException nfe) {
            // not expected after the pattern match !
        }
    }
}

return null;
}

private static int toInt(final String value, final int max) {
if (value == null || value.isEmpty()) {
    return max;
}

int number = Integer.parseInt(value);
if (number > max) {
    number = max;
}

return number;
}
package org.apache.http.impl.client.cache;

import java.io.IOException;
import java.util.ArrayList;
import java.util.Date;
import java.util.List;
import org.apache.http.Header;
import org.apache.http.HeaderElement;
import org.apache.http.HttpRequest;

NetworkAddress(final int address, final int mask) {
    this.address = address;
    this.mask = mask;
}

/*
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 */

package org.apache.http.impl.client.cache;

import java.io.IOException;
import java.util.ArrayList;
import java.util.Date;
import java.util.List;
import org.apache.http.Header;
import org.apache.http.HeaderElement;
import org.apache.http.HttpRequest;

NetworkAddress(final int address, final int mask) {
    this.address = address;
    this.mask = mask;
}

}
import org.apache.http.HttpStatus;
import org.apache.http.annotation.Immutable;
import org.apache.http.client.utils.DateUtils;
import org.apache.http.message.BasicHeader;
import org.apache.http.protocol.HTTP;

/**<br/> * @since 4.1<br/> */
@Immutable
class ResponseProtocolCompliance {

    private static final String UNEXPECTED_100_CONTINUE = "The incoming request did not contain a " + "100-continue header, but the response was a Status 100, continue.";
    private static final String UNEXPECTED_PARTIAL_CONTENT = "partial content was returned for a request that did not ask for it";

    /**<br/> * When we get a response from a down stream server (Origin Server) we attempt to see if it is HTTP 1.1 Compliant and if not, attempt to<br/> * make it so.<br/> *<br/> * @param request The [link HttpRequest] that generated an origin hit and response<br/> * @param response The [link HttpResponse] from the origin server<br/> * @throws IOException Bad things happened<br/> */
    public void ensureProtocolCompliance(final HttpRequestWrapper request, final HttpResponse response) throws IOException {
        if (backendResponseMustNotHaveBody(request, response)) {
            consumeBody(response);
            response.setEntity(null);
        }
        requestDidNotExpect100ContinueButResponseIsOne(request, response);
        transferEncodingIsNotReturnedTo1_0Client(request, response);
        ensurePartialContentIsNotSentToAClientThatDidNotRequestIt(request, response);
        ensure200ForOPTIONSRequestWithNoBodyHasContentLengthZero(request, response);
        ensure206ContainsDateHeader(response);
        ensure304DoesNotContainExtraEntityHeaders(response);
    }
}
identityIsNotUsedInContentEncoding(response);

warningsWithNonMatchingWarnDatesAreRemoved(response);
}

private void consumeBody(final HttpResponse response) throws IOException {
    final HttpEntity body = response.getEntity();
    if (body != null) {
        IOUtils.consume(body);
    }
}

private void warningsWithNonMatchingWarnDatesAreRemoved(final HttpResponse response) {
    final Date responseDate = DateUtils.parseDate(response.getFirstHeader(HTTP.DATE_HEADER).getValue());
    if (responseDate == null) {
        return;
    }
    final Header[] warningHeaders = response.getHeaders(HeaderConstants.WARNING);
    if (warningHeaders == null || warningHeaders.length == 0) {
        return;
    }
    final List<Header> newWarningHeaders = new ArrayList<Header>();
    boolean modified = false;
    for (final Header h : warningHeaders) {
        for (final WarningValue wv : WarningValue.getWarningValues(h)) {
            final Date warnDate = wv.getWarnDate();
            if (warnDate == null || warnDate.equals(responseDate)) {
                newWarningHeaders.add(new BasicHeader(HeaderConstants.WARNING, wv.toString()));
            } else {
                modified = true;
            }
        }
    }
    if (modified) {
        response.removeHeaders(HeaderConstants.WARNING);
        for (final Header h : newWarningHeaders) {
            response.addHeader(h);
        }
    }
}

private void identityIsNotUsedInContentEncoding(final HttpResponse response) {
    final Header[] hdrs = response.getHeaders(HTTP.CONTENT_ENCODING);
if (hdrs == null || hdrs.length == 0) {
    return;
}
final List<Header> newHeaders = new ArrayList<Header>();
boolean modified = false;
for (final Header h : hdrs) {
    final StringBuilder buf = new StringBuilder();
    boolean first = true;
    for (final HeaderElement elt : h.getElements()) {
        if ("identity").equalsIgnoreCase(elt.getName()) {  
            modified = true;
        } else {  
            if (!first) {
                buf.append(",");
            }
            buf.append(elt.toString());
            first = false;
        }
    }
    final String newHeaderValue = buf.toString();
    if (!"".equals(newHeaderValue)) {
        newHeaders.add(new BasicHeader(HTTP.CONTENT_ENCODING, newHeaderValue));
    }
}
if (!modified) {
    return;
}
response.removeHeaders(HTTP.CONTENT_ENCODING);
for (final Header h : newHeaders) {
    response.addHeader(h);
}
}

private void ensure206ContainsDateHeader(final HttpResponse response) {
    if (response.getFirstHeader(HTTP.DATE_HEADER) == null) {
        response.addHeader(HTTP.DATE_HEADER, DateUtils.formatDate(new Date()));
    }
}

private void ensurePartialContentIsNotSentToAClientThatDidNotRequestIt(final HttpRequest request,
    final HttpResponse response) throws IOException {
    if (request.getFirstHeader(HeaderConstants.RANGE) != null
        || response.getStatusLine().getStatusCode() != HttpStatus.SC_PARTIAL_CONTENT) {
        return;
    }
    consumeBody(response);
}

private void ensurePartialContentIsNotSentToAClientThatDidNotRequestIt(final HttpRequest request,
    final HttpResponse response) throws IOException {
    if (request.getFirstHeader(HeaderConstants.RANGE) != null
        || response.getStatusLine().getStatusCode() != HttpStatus.SC_PARTIALCONTENT) {
        return;
    }
    consumeBody(response);
throw new ClientProtocolException(UNEXPECTED_PARTIAL_CONTENT);
}

private void ensure200ForOPTIONSRequestWithNoBodyHasContentLengthZero(final HttpRequest request,
    final HttpResponse response) {
if (!request.getRequestLine().getMethod().equalsIgnoreCase(HeaderConstants.OPTIONS_METHOD)) {
    return;
}

if (response.getStatusLine().getStatusCode() != HttpStatus.SC_OK) {
    return;
}

if (response.getFirstHeader(HTTP.CONTENT_LEN) == null) {
    response.addHeader(HTTP.CONTENT_LEN, "0");
}
}

private void ensure304DoesNotContainExtraEntityHeaders(final HttpResponse response) {
    final String[] disallowedEntityHeaders = {
        HeaderConstants.ALLOW, HTTP.CONTENT_ENCODING,
        "Content-Language", HTTP.CONTENT_LEN, "Content-MD5",
        "Content-Range", HTTP.CONTENT_TYPE, HeaderConstants.LAST_MODIFIED
    };
    if (response.getStatusLine().getStatusCode() == HttpStatus.SC_NOT_MODIFIED) {
        for (final String hdr : disallowedEntityHeaders) {
            response.removeHeaders(hdr);
        }
    }
}

private boolean backendResponseMustNotHaveBody(final HttpRequest request, final HttpResponse backendResponse) {
    return HeaderConstants.HEAD_METHOD.equals(request.getRequestLine().getMethod())
        || backendResponse.getStatusLine().getStatusCode() == HttpStatus.SC_NO_CONTENT
        || backendResponse.getStatusLine().getStatusCode() == HttpStatus.SC_RESET_CONTENT
        || backendResponse.getStatusLine().getStatusCode() == HttpStatus.SC_NOT_MODIFIED;
}

private void requestDidNotExpect100ContinueButResponseIsOne(final HttpRequestWrapper request,
    final HttpResponse response) throws IOException {
if (response.getStatusLine().getStatusCode() != HttpStatus.SC_CONTINUE) {
    return;
}

final HttpRequest originalRequest = request.getOriginal();
if (originalRequest instanceof HttpEntityEnclosingRequest) {
    if (((HttpEntityEnclosingRequest)originalRequest).expectContinue()) {
        return;
    }
}

private void transferEncodingIsNotReturnedTo1_0Client(RestRequest request, final HttpResponse response) {
    final HttpRequest originalRequest = request.getOriginal();
    if (originalRequest.getProtocolVersion().compareToVersion(HttpVersion.HTTP_1_1) >= 0) {
        return;
    }

    removeResponseTransferEncoding(response);
}

private void removeResponseTransferEncoding(final HttpResponse response) {
    response.removeHeaders("TE");
    response.removeHeaders(HTTP.TRANSFER_ENCODING);
}

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* */
package org.apache.http.impl.client.cache;

import java.util.ArrayList;
import java.util.Arrays;
import java.util.List;
import org.apache.http.Header;
import org.apache.http.HeaderElement;
import org.apache.http.HttpRequest;
import org.apache.http.HttpStatus;
import org.apache.http.annotation.Immutable;
import org.apache.http.entity.ContentType;
import org.apache.http.message.BasicHeader;
import org.apache.http.message.BasicStatusLine;
import org.apache.http.protocol.HTTP;

/**
 * @since 4.1
 */
@Immutable
class RequestProtocolCompliance {
    private final boolean weakETagOnPutDeleteAllowed;

    public RequestProtocolCompliance() {
        super();
        this.weakETagOnPutDeleteAllowed = false;
    }

    public RequestProtocolCompliance(final boolean weakETagOnPutDeleteAllowed) {
        super();
        this.weakETagOnPutDeleteAllowed = weakETagOnPutDeleteAllowed;
    }

    private static final List<String> disallowedWithNoCache =
        Arrays.asList(HeaderConstants.CACHE_CONTROL_MIN_FRESH,
                      HeaderConstants.CACHE_CONTROL_MAX_STALE, HeaderConstants.CACHE_CONTROL_MAX_AGE);

    /**
     * Test to see if the {@link HttpRequest} is HTTP1.1 compliant or not
     */

    // Implement methods related to protocol compliance
}

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* and if not, we can not continue.
*  
* @param request the HttpRequest Object
* @return list of {@link RequestProtocolError}
*/

public List<RequestProtocolError> requestIsFatallyNonCompliant(final HttpRequest request) {
    final List<RequestProtocolError> theErrors = new ArrayList<RequestProtocolError>();

    RequestProtocolError anError = requestHasWeakETagAndRange(request);
    if (anError != null) {
        theErrors.add(anError);
    }

    if (!weakETagOnPutDeleteAllowed) {
        anError = requestHasWeekETagForPUTorDELETEIfMatch(request);
        if (anError != null) {
            theErrors.add(anError);
        }
    }

    anError = requestContainsNoCacheDirectiveWithFieldName(request);
    if (anError != null) {
        theErrors.add(anError);
    }

    return theErrors;
}

/**
* If the HttpRequest is non-compliant but 'fixable' we go ahead and
* fix the request here.
*  
* @param request the request to check for compliance
* @throws ClientProtocolException when we have trouble making the request compliant
*/

public void makeRequestCompliant(final HttpRequestWrapper request) throws ClientProtocolException {

    if (requestMustNotHaveEntity(request)) {
        ((HttpEntityEnclosingRequest) request).setEntity(null);
    }

    verifyRequestWithExpectContinueFlagHas100continueHeader(request);
    verifyOPTIONSRequestWithBodyHasContentType(request);
    decrementOPTIONSMaxForwardsIfGreaterThen0(request);
    stripOtherFreshnessDirectivesWithNoCache(request);

    if (requestVersionIsTooLow(request)) {<refine>
private void stripOtherFreshnessDirectivesWithNoCache(final HttpRequest request) {
    final List<HeaderElement> outElts = new ArrayList<HeaderElement>();
    boolean shouldStrip = false;
    for(final Header h : request.getHeaders(HeaderConstants.CACHE_CONTROL)) {
        for(final HeaderElement elt : h.getElements()) {
            if (!disallowedWithNoCache.contains(elt.getName())) {
                outElts.add(elt);
            }
            if (HeaderConstants.CACHE_CONTROL_NO_CACHE.equals(elt.getName())) {
                shouldStrip = true;
            }
        }
    }
    if (!shouldStrip) {
        return;
    }
    request.removeHeaders(HeaderConstants.CACHE_CONTROL);
    request.setHeader(HeaderConstants.CACHE_CONTROL, buildHeaderFromElements(outElts));
}

private String buildHeaderFromElements(final List<HeaderElement> outElts) {
    final StringBuilder newHdr = new StringBuilder("");
    boolean first = true;
    for(final HeaderElement elt : outElts) {
        if (!first) {
            newHdr.append(", ");
        } else {
            first = false;
        }
        newHdr.append(elt.toString());
    }
    return newHdr.toString();
}

private boolean requestMustNotHaveEntity(final HttpRequest request) {
    return HeaderConstants.TRACE_METHOD.equals(request.getRequestLine().getMethod())
        && request instanceof HttpEntityEnclosingRequest;
}

private void decrementOPTIONSMaxForwardsIfGreaterThen0(final HttpRequest request) {
    if (!HeaderConstants.OPTIONS_METHOD.equals(request.getRequestLine().getMethod())) {
        return;
    }
}
final Header maxForwards = request.getFirstHeader(HeaderConstants.MAX_FORWARDS);
if (maxForwards == null) {
    return;
}

request.removeHeaders(HeaderConstants.MAX_FORWARDS);
final int currentMaxForwards = Integer.parseInt(maxForwards.getValue());

request.setHeader(HeaderConstants.MAX_FORWARDS, Integer.toString(currentMaxForwards - 1));

private void verifyOPTIONSRequestWithBodyHasContentType(final HttpRequest request) {
    if (!HeaderConstants.OPTIONS_METHOD.equals(request.getRequestLine().getMethod())) {
        return;
    }
    if (!(request instanceof HttpEntityEnclosingRequest)) {
        return;
    }
    addContentTypeHeaderIfMissing((HttpEntityEnclosingRequest) request);
}

private void addContentTypeHeaderIfMissing(final HttpEntityEnclosingRequest request) {
    if (request.getEntity().getContentType() == null) {
        ((AbstractHttpEntity) request.getEntity()).setContentType(
            ContentType.APPLICATION_OCTET_STREAM.getMimeType());
    }
}

private void verifyRequestWithExpectContinueFlagHas100continueHeader(final HttpRequest request) {
    if (request instanceof HttpEntityEnclosingRequest) {
        if (((HttpEntityEnclosingRequest) request).expectContinue() && ((HttpEntityEnclosingRequest) request).getEntity() != null) {
            add100ContinueHeaderIfMissing(request);
        } else {
            remove100ContinueHeaderIfExists(request);
        }
    } else {
        remove100ContinueHeaderIfExists(request);
    }
}

private void remove100ContinueHeaderIfExists(final HttpRequest request) {
    boolean hasHeader = false;
    }}
final Header[] expectHeaders = request.getHeaders(HTTP.EXPECT_DIRECTIVE);
List<HeaderElement> expectElementsThatAreNot100Continue = new ArrayList<HeaderElement>();

for (final Header h : expectHeaders) {
    for (final HeaderElement elt : h.getElements()) {
        if (!HTTP.EXPECT_CONTINUE.equalsIgnoreCase(elt.getName())) {
            expectElementsThatAreNot100Continue.add(elt);
        } else {
            hasHeader = true;
        }
    }
}

if (hasHeader) {
    request.removeHeader(h);
    for (final HeaderElement elt : expectElementsThatAreNot100Continue) {
        final BasicHeader newHeader = new BasicHeader(HTTP.EXPECT_DIRECTIVE, elt.getName());
        request.addHeader(newHeader);
    }
    return;
} else {
    expectElementsThatAreNot100Continue = new ArrayList<HeaderElement>();
}
}

private void add100ContinueHeaderIfMissing(final HttpRequest request) {
    boolean hasHeader = false;

    for (final Header h : request.getHeaders(HTTP.EXPECT_DIRECTIVE)) {
        for (final HeaderElement elt : h.getElements()) {
            if (HTTP.EXPECT_CONTINUE.equalsIgnoreCase(elt.getName())) {
                hasHeader = true;
            } else {
                continue;
            }
        }
    }

    if (!hasHeader) {
        request.addHeader(HTTP.EXPECT_DIRECTIVE, HTTP.EXPECT_CONTINUE);
    }
}

protected boolean requestMinorVersionIsTooHighMajorVersionsMatch(final HttpRequest request) {
    final ProtocolVersion requestProtocol = request.getProtocolVersion();
    if (requestProtocol.getMajor() != HttpVersion.HTTP_1_1.getMajor()) {
        return false;
    }

    if (requestProtocol.getMinor() > HttpVersion.HTTP_1_1.getMinor()) {
protected boolean requestVersionIsTooLow(final HttpRequest request) {
    return request.getProtocolVersion().compareToVersion(HttpVersion.HTTP_1_1) < 0;
}

/**
 * Extract error information about the [link HttpRequest] telling the 'caller'
 * that a problem occured.
 *
 * @param errorCheck What type of error should I get
 * @return The [link HttpResponse] that is the error generated
 */
public HttpResponse getErrorForRequest(final RequestProtocolError errorCheck) {
    switch (errorCheck) {
    case BODY_BUT_NO_LENGTH_ERROR:
        return new BasicHttpResponse(new BasicStatusLine(HttpVersion.HTTP_1_1,
            HttpStatus.SC_LENGTH_REQUIRED, ""));

    case WEAK_ETAG_AND_RANGE_ERROR:
        return new BasicHttpResponse(new BasicStatusLine(HttpVersion.HTTP_1_1,
            HttpStatus.SC_BAD_REQUEST, "Weak eTag not compatible with byte range");

    case WEAK_ETAG_ON_PUTDELETE_METHOD_ERROR:
        return new BasicHttpResponse(new BasicStatusLine(HttpVersion.HTTP_1_1,
            HttpStatus.SC_BAD_REQUEST, "Weak eTag not compatible with PUT or DELETE requests");

    case NO_CACHE_DIRECTIVE_WITH_FIELD_NAME:
        return new BasicHttpResponse(new BasicStatusLine(HttpVersion.HTTP_1_1,
            HttpStatus.SC_BAD_REQUEST, "No-Cache directive MUST NOT include a field name");

    default:
        throw new IllegalStateException("The request was compliant, therefore no error can be generated for it.");
    }
}

private RequestProtocolError requestHasWeakETagAndRange(final HttpRequest request) {
    final String method = request.getRequestLine().getMethod();
    if (!HeaderConstants.GET_METHOD.equals(method)) {
        return true;
    }
    return false;
}
return null;
}

final Header range = request.getFirstHeader(HeaderConstants.RANGE);
if (range == null) {
    return null;
}

final Header ifRange = request.getFirstHeader(HeaderConstants.IF_RANGE);
if (ifRange == null) {
    return null;
}

final String val = ifRange.getValue();
if (val.startsWith("W/")) {
    return RequestProtocolError.WEAK_ETAG_AND_RANGE_ERROR;
}

return null;
}

private RequestProtocolError requestHasWeakETagForPUTOrDELETEIfMatch(final HttpRequest request) {
    // TODO: Should these be looking at all the headers marked as If-Match/If-None-Match?

    final String method = request.getRequestLine().getMethod();
    if (!(HeaderConstants.PUT_METHOD.equals(method) || HeaderConstants.DELETE_METHOD
            .equals(method))) {
        return null;
    }

    final Header ifMatch = request.getFirstHeader(HeaderConstants.IF_MATCH);
    if (ifMatch != null) {
        final String val = ifMatch.getValue();
        if (val.startsWith("W/")) {
            return RequestProtocolError.WEAK_ETAG_ON_PUTDELETE_METHOD_ERROR;
        }
    } else {
        final Header ifNoneMatch = request.getFirstHeader(HeaderConstants.IF_NONE_MATCH);
        if (ifNoneMatch == null) {
            return null;
        }

        final String val2 = ifNoneMatch.getValue();
        if (val2.startsWith("W/")) {
            return RequestProtocolError.WEAK_ETAG_ON_PUTDELETE_METHOD_ERROR;
        }
    }
}

final String val2 = ifNoneMatch.getValue();
if (val2.startsWith("W/")) {
    return RequestProtocolError.WEAK_ETAG_ON_PUTDELETE_METHOD_ERROR;
}
}
private RequestProtocolError requestContainsNoCacheDirectiveWithFieldName(final HttpRequest request) {
    for (final Header h : request.getHeaders(HeaderConstants.CACHE_CONTROL)) {
        for (final HeaderElement elt : h.getElements()) {
            if (HeaderConstants.CACHE_CONTROL_NO_CACHE.equalsIgnoreCase(elt.getName())
                && elt.getValue() != null) {
                return RequestProtocolError.NO_CACHE_DIRECTIVE_WITH_FIELD_NAME;
            }
        }
    }
    return null;
}

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*/
package org.apache.http.impl.client.cache.memcached;

import java.io.ByteArrayInputStream;
import java.io.ByteArrayOutputStream;
import java.io.IOException;
import java.io.ObjectInputStream;
import java.io.ObjectOutputStream;

/**
 * Default implementation of {@link MemcachedCacheEntry}. This implementation
 * simply uses Java serialization to serialize the storage key followed by
 * the {@link HttpCacheEntry} into a byte array.
 */
public class MemcachedCacheEntryImpl implements MemcachedCacheEntry {

    private String key;
    private HttpCacheEntry httpCacheEntry;

    public MemcachedCacheEntryImpl(final String key, final HttpCacheEntry httpCacheEntry) {
        this.key = key;
        this.httpCacheEntry = httpCacheEntry;
    }

    public MemcachedCacheEntryImpl() {
    }

    /* (non-Javadoc)
     * @see org.apache.http.impl.client.cache.memcached.MemcachedCacheEntry#toByteArray()
     */
    @Override
    synchronized public byte[] toByteArray() {
        final ByteArrayOutputStream bos = new ByteArrayOutputStream();
        ObjectOutputStream oos;
        try {
            oos = new ObjectOutputStream(bos);
            oos.writeObject(this.key);
            oos.writeObject(this.httpCacheEntry);
            oos.close();
        } catch (final IOException ioe) {
            throw new MemcachedSerializationException(ioe);
        }
        return bos.toByteArray();
    }

    /* (non-Javadoc)
     * @see org.apache.http.impl.client.cache.memcached.MemcachedCacheEntry#getKey()
     */
    @Override
    public synchronized String getStorageKey() {
        return key;
    }

    /* (non-Javadoc)
     * @see org.apache.http.impl.client.cache.memcached.MemcachedCacheEntry#toByteArray()
     */
    @Override
    public synchronized byte[] toByteArray() {
        final ByteArrayOutputStream bos = new ByteArrayOutputStream();
        ObjectOutputStream oos;
        try {
            oos = new ObjectOutputStream(bos);
            oos.writeObject(this.key);
            oos.writeObject(this.httpCacheEntry);
            oos.close();
        } catch (final IOException ioe) {
            throw new MemcachedSerializationException(ioe);
        }
        return bos.toByteArray();
    }

    /* (non-Javadoc)
     * @see org.apache.http.impl.client.cache.memcached.MemcachedCacheEntry#getKey()
     */
    @Override
    public synchronized String getStorageKey() {
        return key;
    }
* @see org.apache.http.impl.client.cache.memcached.MemcachedCacheEntry#getHttpCacheEntry() */

@Override
public synchronized HttpCacheEntry getHttpCacheEntry() {
    return httpCacheEntry;
}

/* (non-Javadoc)
* @see org.apache.http.impl.client.cache.memcached.MemcachedCacheEntry#set(byte[]) */

@Override
synchronized public void set(final byte[] bytes) {
    final ByteArrayInputStream bis = new ByteArrayInputStream(bytes);
    ObjectInputStream ois;
    String s;
    HttpCacheEntry entry;
    try {
        ois = new ObjectInputStream(bis);
        s = (String)ois.readObject();
        entry = (HttpCacheEntry)ois.readObject();
        ois.close();
        bis.close();
    } catch (final IOException ioe) {
        throw new MemcachedSerializationException(ioe);
    } catch (final ClassNotFoundException cnfe) {
        throw new MemcachedSerializationException(cnfe);
    }
    this.key = s;
    this.httpCacheEntry = entry;
}

*/

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package org.apache.http.impl.client.cache.memcached;


/**
 * Default implementation of {@link MemcachedCacheEntryFactory}.
 */
public class MemcachedCacheEntryFactoryImpl implements MemcachedCacheEntryFactory {

    @Override
    public MemcachedCacheEntry getMemcachedCacheEntry(final String key, final HttpCacheEntry entry) {
        return new MemcachedCacheEntryImpl(key, entry);
    }

    @Override
    public MemcachedCacheEntry getUnsetCacheEntry() {
        return new MemcachedCacheEntryImpl(null, null);
    }
}

package org.apache.http.impl.client.cache;

import static org.junit.Assert.assertEquals;
import static org.junit.Assert.assertNull;
import static org.junit.Assert.assertTrue;
import java.util.Arrays;
import org.apache.http.HttpRequest;
import org.apache.http.message.BasicHttpRequest;
import org.junit.Before;
import org.junit.Test;
public class TestRequestProtocolCompliance {
    private RequestProtocolCompliance impl;
    private HttpRequest req;

    @Before
    public void setUp() {
        req = HttpTestUtils.makeDefaultRequest();
        impl = new RequestProtocolCompliance(false);
    }

    @Test
    public void testRequestWithWeakETagAndRange() throws Exception {
        req.setHeader("Range", "bytes=0-499");
        req.setHeader("If-Range", "W/""weak"");
        assertEquals(1, impl.requestIsFatallyNonCompliant(req).size());
    }

    @Test
    public void testRequestWithWeekETagForPUTOrDELETEIfMatch() throws Exception {
        req = new HttpPut("http://example.com/");
        req.setHeader("If-Match", "W/""weak"");
        assertEquals(1, impl.requestIsFatallyNonCompliant(req).size());
    }
}
assertEquals(1, impl.requestIsFatallyNonCompliant(req).size());
}

@Test
public void testRequestWithWeekETagForPUTOrDELETEIfMatchAllowed() throws Exception {
    req = new HttpPut("http://example.com/");
    req.setHeader("If-Match", "W/"weak\"");
    impl = new RequestProtocolCompliance(true);
    assertEquals(Arrays.asList(), impl.requestIsFatallyNonCompliant(req));
}

@Test
public void testRequestContainsNoCacheDirectiveWithFieldName() throws Exception {
    req.setHeader("Cache-Control", "no-cache=false");
    assertEquals(1, impl.requestIsFatallyNonCompliant(req).size());
}

@Test
public void doesNotModifyACompliantRequest() throws Exception {
    final HttpRequestWrapper wrapper = HttpRequestWrapper.wrap(req);
    impl.makeRequestCompliant(wrapper);
    assertTrue(HttpTestUtils.equivalent(req, wrapper));
}

@Test
public void removesEntityFromTRACERequest() throws Exception {
    final HttpEntityEnclosingRequest reqst =
        new BasicHttpEntityEnclosingRequest("TRACE", "/", HttpVersion.HTTP_1_1);
    reqst.setEntity(HttpTestUtils.makeBody(50));
    final HttpRequestWrapper wrapper = HttpRequestWrapper.wrap(reqst);
    impl.makeRequestCompliant(wrapper);
    if (wrapper instanceof HttpEntityEnclosingRequest) {
        assertNull(((HttpEntityEnclosingRequest) wrapper).getEntity());
    }
}

@Test
public void upgrades1_0RequestTo1_1() throws Exception {
    req = new BasicHttpRequest("GET", "/", HttpVersion.HTTP_1_0);
    final HttpRequestWrapper wrapper = HttpRequestWrapper.wrap(req);
    impl.makeRequestCompliant(wrapper);
    assertEquals(HttpVersion.HTTP_1_1, wrapper.getProtocolVersion());
}

@Test
public void downgrades1_2RequestTo1_1() throws Exception {
    final ProtocolVersion HTTP_1_2 = new ProtocolVersion("HTTP", 1, 2);
    req = new BasicHttpRequest("GET", "/", HTTP_1_2);
final HttpRequestWrapper wrapper = HttpRequestWrapper.wrap(req);
impl.makeRequestCompliant(wrapper);
assertEquals(HttpVersion.HTTP_1_1, wrapper.getProtocolVersion());
}

@Test
public void stripsMinFreshFromRequestIfNoCachePresent()
    throws Exception {
    req.setHeader("Cache-Control", "no-cache, min-fresh=10");
    final HttpRequestWrapper wrapper = HttpRequestWrapper.wrap(req);
    impl.makeRequestCompliant(wrapper);
    assertEquals("no-cache",
        wrapper.getFirstHeader("Cache-Control").getValue());
}

@Test
public void stripsMaxFreshFromRequestIfNoCachePresent()
    throws Exception {
    req.setHeader("Cache-Control", "no-cache, max-stale=10");
    final HttpRequestWrapper wrapper = HttpRequestWrapper.wrap(req);
    impl.makeRequestCompliant(wrapper);
    assertEquals("no-cache",
        wrapper.getFirstHeader("Cache-Control").getValue());
}

@Test
public void stripsMaxAgeFromRequestIfNoCachePresent()
    throws Exception {
    req.setHeader("Cache-Control", "no-cache, max-age=10");
    final HttpRequestWrapper wrapper = HttpRequestWrapper.wrap(req);
    impl.makeRequestCompliant(wrapper);
    assertEquals("no-cache",
        wrapper.getFirstHeader("Cache-Control").getValue());
}

@Test
public void doesNotStripMinFreshFromRequestWithoutNoCache()
    throws Exception {
    req.setHeader("Cache-Control", "min-fresh=10");
    final HttpRequestWrapper wrapper = HttpRequestWrapper.wrap(req);
    impl.makeRequestCompliant(wrapper);
    assertEquals("min-fresh=10",
        wrapper.getFirstHeader("Cache-Control").getValue());
}

@Test
public void correctlyStripsMinFreshFromMiddleIfNoCache()
    throws Exception {
req.setHeader("Cache-Control", "no-cache,min-fresh=10,no-store");
final HttpRequestWrapper wrapper = HttpRequestWrapper.wrap(req);
impl.makeRequestCompliant(wrapper);
assertEquals("no-cache,no-store",
    wrapper.getFirstHeader("Cache-Control").getValue());
}*/

package org.apache.http.impl.client.cache;

import static org.junit.Assert.assertEquals;
import static org.junit.Assert.assertFalse;
import static org.junit.Assert.assertTrue;
import java.io.ByteArrayInputStream;
import java.util.Date;
import org.apache.http.Header;
import org.apache.http.HttpStatus;

import static org.junit.Assert.assertEquals;
import static org.junit.Assert.assertFalse;
import static org.junit.Assert.assertTrue;
import java.io.ByteArrayInputStream;
import java.util.Date;
import org.apache.http.Header;
import org.apache.http.HttpStatus;

import static org.junit.Assert.assertEquals;
import static org.junit.Assert.assertFalse;
import static org.junit.Assert.assertTrue;
import java.io.ByteArrayInputStream;
import java.util.Date;
import org.apache.http.Header;
import org.apache.http.HttpStatus;
import org.apache.http.client.utils.DateUtils;
import org.apache.http.message.BasicHttpRequest;
import org.junit.Test;

/**
 * A suite of acceptance tests for compliance with RFC5861, which
 * describes the stale-if-error and stale-while-revalidate
 * Cache-Control extensions.
 */

public class TestRFC5861Compliance extends AbstractProtocolTest {

/*
 * "The stale-if-error Cache-Control extension indicates that when an
 * error is encountered, a cached stale response MAY be used to satisfy
 * the request, regardless of other freshness information. When used as a
 * request Cache-Control extension, its scope of application is the request
 * it appears in; when used as a response Cache-Control extension, its
 * scope is any request applicable to the cached response in which it
 * occurs. Its value indicates the upper limit to staleness; when the cached
 * response is more stale than the indicated amount, the cached response
 * SHOULD NOT be used to satisfy the request, absent other information.
 * In this context, an error is any situation that would result in a
 * 500, 502, 503, or 504 HTTP response status code being returned."
 */


@Test
public void testStaleIfErrorInResponseIsTrueReturnsStaleEntryWithWarning()
    throws Exception{
    final Date tenSecondsAgo = new Date(new Date().getTime() - 10 * 1000L);
    final HttpRequestWrapper req1 = HttpRequestWrapper.wrap(HttpTestUtils.makeDefaultRequest());
    final HttpResponse resp1 = HttpTestUtils.make200Response(tenSecondsAgo, "public, max-age=5, stale-if-error=60");
    backendExpectsAnyRequestAndReturn(resp1);

    final HttpRequestWrapper req2 = HttpRequestWrapper.wrap(HttpTestUtils.makeDefaultRequest());
    final HttpResponse resp2 = HttpTestUtils.make500Response();
    backendExpectsAnyRequestAndReturn(resp2);

    replayMocks();
    impl.execute(route, req1, context, null);
    final HttpResponse result = impl.execute(route, req2, context, null);
    verifyMocks();
}
HttpTestUtils.assert110WarningFound(result);
}

@Test
public void testConsumesErrorResponseWhenServingStale()
    throws Exception{
    final Date tenSecondsAgo = new Date(new Date().getTime() - 10 * 1000L);
    final HttpRequestWrapper req1 = HttpTestUtils.wrap(HttpTestUtils.makeDefaultRequest());
    final HttpResponse resp1 = HttpTestUtils.make200Response(tenSecondsAgo,
                  "public, max-age=5, stale-if-error=60");

    backendExpectsAnyRequestAndReturn(resp1);

    final HttpRequestWrapper req2 = HttpTestUtils.wrap(HttpTestUtils.makeDefaultRequest());
    final HttpResponse resp2 = HttpTestUtils.make500Response();
    final byte[] body101 = HttpTestUtils.getRandomBytes(101);
    final ByteArrayInputStream buf = new ByteArrayInputStream(body101);
    final ConsumableInputStream cis = new ConsumableInputStream(buf);
    final HttpEntity entity = new InputStreamEntity(cis, 101);
    resp2.setEntity(entity);

    backendExpectsAnyRequestAndReturn(resp2);

    replayMocks();
    impl.execute(route, req1, context, null);
    impl.execute(route, req2, context, null);
    verifyMocks();

    assertTrue(cis.wasClosed());
}

@Test
public void testStaleIfErrorInResponseYieldsToMustRevalidate()
    throws Exception{
    final Date tenSecondsAgo = new Date(new Date().getTime() - 10 * 1000L);
    final HttpRequestWrapper req1 = HttpTestUtils.wrap(HttpTestUtils.makeDefaultRequest());
    final HttpResponse resp1 = HttpTestUtils.make200Response(tenSecondsAgo,
                  "public, max-age=5, stale-if-error=60, must-revalidate");

    backendExpectsAnyRequestAndReturn(resp1);

    final HttpRequestWrapper req2 = HttpTestUtils.wrap(HttpTestUtils.makeDefaultRequest());
    final HttpResponse resp2 = HttpTestUtils.make500Response();

    backendExpectsAnyRequestAndReturn(resp2);

    replayMocks();
    impl.execute(route, req1, context, null);
final HttpResponse result = impl.execute(route, req2, context, null);
verifyMocks();

assertTrue(HttpStatus.SC_OK != result.getStatusLine().getStatusCode());
}

@Test
public void testStaleIfErrorInResponseYieldsToProxyRevalidateForSharedCache()
    throws Exception{
    assertTrue(config.isSharedCache());
    final Date tenSecondsAgo = new Date(new Date().getTime() - 10 * 1000L);
    final HttpRequestWrapper req1 = HttpRequestWrapper.wrap(HttpTestUtils.makeDefaultRequest());
    final HttpResponse resp1 = HttpTestUtils.make200Response(tenSecondsAgo,
        "public, max-age=5, stale-if-error=60, proxy-revalidate");

    backendExpectsAnyRequestAndReturn(resp1);

    final HttpRequestWrapper req2 = HttpRequestWrapper.wrap(HttpTestUtils.makeDefaultRequest());
    final HttpResponse resp2 = HttpTestUtils.make500Response();

    backendExpectsAnyRequestAndReturn(resp2);

    replayMocks();
    impl.execute(route, req1, context, null);
    final HttpResponse result = impl.execute(route, req2, context, null);
    verifyMocks();

    assertTrue(HttpStatus.SC_OK != result.getStatusLine().getStatusCode());
}

@Test
public void testStaleIfErrorInResponseNeedNotYieldToProxyRevalidateForPrivateCache()
    throws Exception{
    final CacheConfig configUnshared = CacheConfig.custom()
        .setSharedCache(false).build();
    impl = new CachingExec(mockBackend, new BasicHttpCache(configUnshared), configUnshared);

    final Date tenSecondsAgo = new Date(new Date().getTime() - 10 * 1000L);
    final HttpRequestWrapper req1 = HttpRequestWrapper.wrap(HttpTestUtils.makeDefaultRequest());
    final HttpResponse resp1 = HttpTestUtils.make200Response(tenSecondsAgo,
        "public, max-age=5, stale-if-error=60, proxy-revalidate");

    backendExpectsAnyRequestAndReturn(resp1);

    final HttpRequestWrapper req2 = HttpRequestWrapper.wrap(HttpTestUtils.makeDefaultRequest());
    final HttpResponse resp2 = HttpTestUtils.make500Response();

    backendExpectsAnyRequestAndReturn(resp2);
replayMocks();
impl.execute(route, req1, context, null);
final HttpResponse result = impl.execute(route, req2, context, null);
verifyMocks();

HttpTestUtils.assert110WarningFound(result);
}

@Test
public void testStaleIfErrorInResponseYieldsToExplicitFreshnessRequest()
    throws Exception{
    final Date tenSecondsAgo = new Date(new Date().getTime() - 10 * 1000L);
    final HttpRequestWrapper req1 = HttpRequestWrapper.wrap(HttpTestUtils.makeDefaultRequest());
    final HttpResponse resp1 = HttpTestUtils.make200Response(tenSecondsAgo,
        "public, max-age=5, stale-if-error=60");

    backendExpectsAnyRequestAndReturn(resp1);

    final HttpRequestWrapper req2 = HttpRequestWrapper.wrap(HttpTestUtils.makeDefaultRequest());
    req2.setHeader("Cache-Control", "min-fresh=2");
    final HttpResponse resp2 = HttpTestUtils.make500Response();

    backendExpectsAnyRequestAndReturn(resp2);

    replayMocks();
    impl.execute(route, req1, context, null);
    final HttpResponse result = impl.execute(route, req2, context, null);
    verifyMocks();

    assertTrue(HttpStatus.SC_OK != result.getStatusLine().getStatusCode());
}

@Test
public void testStaleIfErrorInRequestIsTrueReturnsStaleEntryWithWarning()
    throws Exception{
    final Date tenSecondsAgo = new Date(new Date().getTime() - 10 * 1000L);
    final HttpRequestWrapper req1 = HttpRequestWrapper.wrap(HttpTestUtils.makeDefaultRequest());
    final HttpResponse resp1 = HttpTestUtils.make200Response(tenSecondsAgo,
        "public, max-age=5");

    backendExpectsAnyRequestAndReturn(resp1);

    final HttpRequestWrapper req2 = HttpRequestWrapper.wrap(HttpTestUtils.makeDefaultRequest());
    req2.setHeader("Cache-Control", "public, stale-if-error=60");
    final HttpResponse resp2 = HttpTestUtils.make500Response();

    backendExpectsAnyRequestAndReturn(resp2);
replayMocks();
impl.execute(route, req1, context, null);
final HttpResponse result = impl.execute(route, req2, context, null);
verifyMocks();

HttpTestUtils.assert110WarningFound(result);
}

@Test
public void testStaleIfErrorInRequestIsTrueReturnsStaleNonRevalidatableEntryWithWarning() throws Exception {
    final Date tenSecondsAgo = new Date(new Date().getTime() - 10 * 1000L);
    final HttpRequestWrapper req1 = HttpRequestWrapper.wrap(HttpTestUtils.makeDefaultRequest());
    final HttpResponse resp1 = HttpTestUtils.make200Response();
    resp1.setHeader("Date", DateUtils.formatDate(tenSecondsAgo));
    resp1.setHeader("Cache-Control", "public, max-age=5");

    backendExpectsAnyRequestAndReturn(resp1);

    final HttpRequestWrapper req2 = HttpRequestWrapper.wrap(HttpTestUtils.makeDefaultRequest());
    req2.setHeader("Cache-Control", "public, stale-if-error=60");
    final HttpResponse resp2 = HttpTestUtils.make500Response();

    backendExpectsAnyRequestAndReturn(resp2);

    replayMocks();
    impl.execute(route, req1, context, null);
    final HttpResponse result = impl.execute(route, req2, context, null);
    verifyMocks();

    HttpTestUtils.assert110WarningFound(result);
}

@Test
public void testStaleIfErrorInResponseIsFalseReturnsError() throws Exception{
    final Date now = new Date();
    final Date tenSecondsAgo = new Date(now.getTime() - 10 * 1000L);
    final HttpRequestWrapper req1 = HttpRequestWrapper.wrap(HttpTestUtils.makeDefaultRequest());
    final HttpResponse resp1 = HttpTestUtils.make200Response(tenSecondsAgo,
        "public, max-age=5, stale-if-error=2");

    backendExpectsAnyRequestAndReturn(resp1);

    final HttpRequestWrapper req2 = HttpRequestWrapper.wrap(HttpTestUtils.makeDefaultRequest());
    final HttpResponse resp2 = HttpTestUtils.make500Response();

backendExpectsAnyRequestAndReturn(resp2);
replayMocks();
impl.execute(route, req1, context, null);
final HttpResponse result = impl.execute(route, req2, context, null);
verifyMocks();

assertEquals(HttpStatus.SC_INTERNAL_SERVER_ERROR,
            result.getStatusLine().getStatusCode());
}

@Test
public void testStaleIfErrorInRequestIsFalseReturnsError()
        throws Exception{
    final Date now = new Date();
    final Date tenSecondsAgo = new Date(now.getTime() - 10 * 1000L);
    final HttpRequestWrapper req1 = HttpRequestWrapper.wrap(HttpTestUtils.makeDefaultRequest());
    final HttpResponse resp1 = HttpTestUtils.make200Response(tenSecondsAgo,
                                    "public, max-age=5");

    backendExpectsAnyRequestAndReturn(resp1);

    final HttpRequestWrapper req2 = HttpRequestWrapper.wrap(HttpTestUtils.makeDefaultRequest());
    req2.setHeader("Cache-Control","stale-if-error=2");
    final HttpResponse resp2 = HttpTestUtils.make500Response();

    backendExpectsAnyRequestAndReturn(resp2);

    replayMocks();
    impl.execute(route, req1, context, null);
    final HttpResponse result = impl.execute(route, req2, context, null);
    verifyMocks();

    assertEquals(HttpStatus.SC_INTERNAL_SERVER_ERROR,
            result.getStatusLine().getStatusCode());
}

/*@Test*/
public void testStaleWhileRevalidateReturnsStaleEntryWithWarning()
        throws Exception {
    final Date now = new Date();
    final Date tenSecondsAgo = new Date(now.getTime() - 10 * 1000L);
    final HttpRequestWrapper req1 = HttpRequestWrapper.wrap(HttpTestUtils.makeDefaultRequest());
    final HttpResponse resp1 = HttpTestUtils.make200Response(tenSecondsAgo,
                                    "public, max-age=5");

    backendExpectsAnyRequestAndReturn(resp1);

    final HttpRequestWrapper req2 = HttpRequestWrapper.wrap(HttpTestUtils.makeDefaultRequest());
    req2.setHeader("Cache-Control","stale-while-revalidate");
    final HttpResponse resp2 = HttpTestUtils.make500Response();

    backendExpectsAnyRequestAndReturn(resp2);

    replayMocks();
    impl.execute(route, req1, context, null);
    final HttpResponse result = impl.execute(route, req2, context, null);
    verifyMocks();

    assertEquals(HttpStatus.SC_INTERNAL_SERVER_ERROR,
            result.getStatusLine().getStatusCode());
}

/*@Test*/
public void testStaleWhileRevalidateContainsWarningForStaleEntry() {
    final Date now = new Date();
    final Date tenSecondsAgo = new Date(now.getTime() - 10 * 1000L);
    final HttpRequestWrapper req1 = HttpRequestWrapper.wrap(HttpTestUtils.makeDefaultRequest());
    final HttpResponse resp1 = HttpTestUtils.make200Response(tenSecondsAgo,
                                    "public, max-age=5");

    backendExpectsAnyRequestAndReturn(resp1);

    final HttpRequestWrapper req2 = HttpRequestWrapper.wrap(HttpTestUtils.makeDefaultRequest());
    req2.setHeader("Cache-Control","stale-while-revalidate");
    final HttpResponse resp2 = HttpTestUtils.make500Response();

    backendExpectsAnyRequestAndReturn(resp2);

    replayMocks();
    impl.execute(route, req1, context, null);
    final HttpResponse result = impl.execute(route, req2, context, null);
    verifyMocks();

    assertEquals(HttpStatus.SC_INTERNAL_SERVER_ERROR,
            result.getStatusLine().getStatusCode());
}

/*@Test*/
public void testStaleWhileRevalidateReturnsStaleEntryWithWarning() {
    final Date now = new Date();
    final Date tenSecondsAgo = new Date(now.getTime() - 10 * 1000L);
    final HttpRequestWrapper req1 = HttpRequestWrapper.wrap(HttpTestUtils.makeDefaultRequest());
    final HttpResponse resp1 = HttpTestUtils.make200Response(tenSecondsAgo,
                                    "public, max-age=5");

    backendExpectsAnyRequestAndReturn(resp1);

    final HttpRequestWrapper req2 = HttpRequestWrapper.wrap(HttpTestUtils.makeDefaultRequest());
    req2.setHeader("Cache-Control","stale-while-revalidate");
    final HttpResponse resp2 = HttpTestUtils.make500Response();

    backendExpectsAnyRequestAndReturn(resp2);

    replayMocks();
    impl.execute(route, req1, context, null);
    final HttpResponse result = impl.execute(route, req2, context, null);
    verifyMocks();

    assertEquals(HttpStatus.SC_INTERNAL_SERVER_ERROR,
            result.getStatusLine().getStatusCode());
}

/*@Test*/
public void testStaleWhileRevalidateContainsWarningForStaleEntry() {
    final Date now = new Date();
    final Date tenSecondsAgo = new Date(now.getTime() - 10 * 1000L);
    final HttpRequestWrapper req1 = HttpRequestWrapper.wrap(HttpTestUtils.makeDefaultRequest());
    final HttpResponse resp1 = HttpTestUtils.make200Response(tenSecondsAgo,
                                    "public, max-age=5");

    backendExpectsAnyRequestAndReturn(resp1);

    final HttpRequestWrapper req2 = HttpRequestWrapper.wrap(HttpTestUtils.makeDefaultRequest());
    req2.setHeader("Cache-Control","stale-while-revalidate");
    final HttpResponse resp2 = HttpTestUtils.make500Response();

    backendExpectsAnyRequestAndReturn(resp2);

    replayMocks();
    impl.execute(route, req1, context, null);
    final HttpResponse result = impl.execute(route, req2, context, null);
    verifyMocks();

    assertEquals(HttpStatus.SC_INTERNAL_SERVER_ERROR,
            result.getStatusLine().getStatusCode());
}
config = CacheConfig.custom()
    .setMaxCacheEntries(MAX_ENTRIES)
    .setMaxObjectSize(MAX_BYTES)
    .setAsynchronousWorkersMax(1)
    .build();

impl = new CachingExec(mockBackend, cache, config, new AsynchronousValidator(config));

final HttpRequestWrapper req1 = HttpRequestWrapper.wrap(
    new BasicHttpRequest("GET", "/", HttpVersion.HTTP_1_1));
final HttpResponse resp1 = HttpTestUtils.make200Response();
final Date now = new Date();
final Date tenSecondsAgo = new Date(now.getTime() - 10 * 1000L);
resp1.setHeader("Cache-Control", "public, max-age=5, stale-while-revalidate=15");
resp1.setHeader("ETag","etag");
resp1.setHeader("Date", DateUtils.formatDate(tenSecondsAgo));

backendExpectsAnyRequestAndReturn(resp1).times(1,2);

final HttpRequestWrapper req2 = HttpRequestWrapper.wrap(
    new BasicHttpRequest("GET", "/", HttpVersion.HTTP_1_1));

replayMocks();
impl.execute(route, req1, context, null);
final HttpResponse result = impl.execute(route, req2, context, null);
verifyMocks();

assertEquals(HttpStatus.SC_OK, result.getStatusLine().getStatusCode());
boolean warning110Found = false;
for(final Header h : result.getHeaders("Warning")) {
    for(final WarningValue wv : WarningValue.getWarningValues(h)) {
        if (wv.getWarnCode() == 110) {
            warning110Found = true;
            break;
        }
    }
}
assertTrue(warning110Found);

@Test
public void testHTTPCLIENT1470() {
    impl = new CachingExec(mockBackend, cache, null, new AsynchronousValidator(config));
}

@Test
public void testStaleWhileRevalidateReturnsStaleNonRevalidatableEntryWithWarning()throws Exception {

}
config = CacheConfig.custom().setMaxCacheEntries(MAX_ENTRIES).setMaxObjectSize(MAX_BYTES)
    .setAsynchronousWorkersMax(1).build();

impl = new CachingExec(mockBackend, cache, config, new AsynchronousValidator(config));

final HttpRequestWrapper req1 = HttpRequestWrapper.wrap(new BasicHttpRequest("GET", "/", HttpVersion.HTTP_1_1));
final HttpResponse resp1 = HttpTestUtils.make200Response();
final Date now = new Date();
final Date tenSecondsAgo = new Date(now.getTime() - 10 * 1000L);
resp1.setHeader("Cache-Control", "public, max-age=5, stale-while-revalidate=15");
resp1.setHeader("Date", DateUtils.formatDate(tenSecondsAgo));
backendExpectsAnyRequestAndReturn(resp1).times(1, 2);

final HttpRequestWrapper req2 = HttpRequestWrapper.wrap(new BasicHttpRequest("GET", "/", HttpVersion.HTTP_1_1));
replayMocks();
impl.execute(route, req1, context, null);
final HttpResponse result = impl.execute(route, req2, context, null);
verifyMocks();

assertEquals(HttpStatus.SC_OK, result.getStatusLine().getStatusCode());
boolean warning110Found = false;
for (final Header h : result.getHeaders("Warning")) {
    for (final WarningValue wv : WarningValue.getWarningValues(h)) {
        if (wv.getWarnCode() == 110) {
            warning110Found = true;
            break;
        }
    }
}
assertTrue(warning110Found);

@Test
public void testCanAlsoServeStale304sWhileRevalidating() throws Exception {
    config = CacheConfig.custom()
        .setMaxCacheEntries(MAX_ENTRIES)
        .setMaxObjectSize(MAX_BYTES)
        .setAsynchronousWorkersMax(1)
        .setSharedCache(false)
        .build();
    impl = new CachingExec(mockBackend, cache, config, new AsynchronousValidator(config));
final HttpRequestWrapper req1 = HttpRequestWrapper.wrap(
    new BasicHttpRequest("GET", "/", HttpVersion.HTTP_1_1));
final HttpResponse resp1 = HttpTestUtils.make200Response();
final Date now = new Date();
final Date tenSecondsAgo = new Date(now.getTime() - 10 * 1000L);
resp1.setHeader("Cache-Control", "private, stale-while-revalidate=15");
resp1.setHeader("ETag","etag");
resp1.setHeader("Date", DateUtils.formatDate(tenSecondsAgo));

backendExpectsAnyRequestAndReturn(resp1).times(1,2);

final HttpRequestWrapper req2 = HttpRequestWrapper.wrap(
    new BasicHttpRequest("GET", "/", HttpVersion.HTTP_1_1));
req2.setHeader("If-None-Match","etag");
replayMocks();
impl.execute(route, req1, context, null);
final HttpResponse result = impl.execute(route, req2, context, null);
verifyMocks();

assertEquals(HttpStatus.SC_NOT_MODIFIED, result.getStatusLine().getStatusCode());
boolean warning110Found = false;
for(final Header h : result.getHeaders("Warning")) {
    for(final WarningValue wv : WarningValue.getWarningValues(h)) {
        if (wv.getWarnCode() == 110) {
            warning110Found = true;
            break;
        }
    }
}
assertTrue(warning110Found);

@Test
public void testStaleWhileRevalidateYieldsToMustRevalidate() throws Exception {

    final Date now = new Date();
    final Date tenSecondsAgo = new Date(now.getTime() - 10 * 1000L);

    config = CacheConfig.custom()
        .setMaxCacheEntries(MAX_ENTRIES)
        .setMaxObjectSize(MAX_BYTES)
        .setAsynchronousWorkersMax(1)
        .build();
    impl = new CachingExec(mockBackend, cache, config);

    final HttpRequestWrapper req1 = HttpRequestWrapper.wrap(
        new BasicHttpRequest("GET", "/", HttpVersion.HTTP_1_1));
    final HttpResponse resp1 = HttpTestUtils.make200Response();
    final Date now = new Date();
    final Date tenSecondsAgo = new Date(now.getTime() - 10 * 1000L);
    resp1.setHeader("Cache-Control", "private, stale-while-revalidate=15");
    resp1.setHeader("ETag","etag");
    resp1.setHeader("Date", DateUtils.formatDate(tenSecondsAgo));

    backendExpectsAnyRequestAndReturn(resp1).times(1,2);

    final HttpRequestWrapper req2 = HttpRequestWrapper.wrap(
        new BasicHttpRequest("GET", "/", HttpVersion.HTTP_1_1));
    req2.setHeader("If-None-Match","etag");
    replayMocks();
    impl.execute(route, req1, context, null);
    final HttpResponse result = impl.execute(route, req2, context, null);
    verifyMocks();

    assertEquals(HttpStatus.SC_NOT_MODIFIED, result.getStatusLine().getStatusCode());
    boolean warning110Found = false;
    for(final Header h : result.getHeaders("Warning")) {
        for(final WarningValue wv : WarningValue.getWarningValues(h)) {
            if (wv.getWarnCode() == 110) {
                warning110Found = true;
                break;
            }
        }
    }
    assertTrue(warning110Found);
}
final HttpRequestWrapper req1 = HttpRequestWrapper.wrap(
    new BasicHttpRequest("GET", "/", HttpVersion.HTTP_1_1));
final HttpResponse resp1 = HttpTestUtils.make200Response();
resp1.setHeader("Cache-Control", "public, max-age=5, stale-while-revalidate=15, must-revalidate");
resp1.setHeader("ETag","etag");
resp1.setHeader("Date", DateUtils.formatDate(tenSecondsAgo));

backendExpectsAnyRequestAndReturn(resp1);

final HttpRequestWrapper req2 = HttpRequestWrapper.wrap(
    new BasicHttpRequest("GET", "/", HttpVersion.HTTP_1_1));
final HttpResponse resp2 = HttpTestUtils.make200Response();
resp2.setHeader("Cache-Control", "public, max-age=5, stale-while-revalidate=15, must-revalidate");
resp2.setHeader("ETag","etag");
resp2.setHeader("Date", DateUtils.formatDate(now));

backendExpectsAnyRequestAndReturn(resp2);

replayMocks();
impl.execute(route, req1, context, null);
final HttpResponse result = impl.execute(route, req2, context, null);
verifyMocks();

assertEquals(HttpStatus.SC_OK, result.getStatusLine().getStatusCode());
boolean warning110Found = false;
for(final Header h : result.getHeaders("Warning")) {
    for(final WarningValue wv : WarningValue.getWarningValues(h)) {
        if (wv.getWarnCode() == 110) {
            warning110Found = true;
            break;
        }
    }
}
assertFalse(warning110Found);

@Test
public void testStaleWhileRevalidateYieldsToProxyRevalidateForSharedCache()
    throws Exception {

    final Date now = new Date();
    final Date tenSecondsAgo = new Date(now.getTime() - 10 * 1000L);

    config = CacheConfig.custom()
        .setMaxCacheEntries(MAX_ENTRIES)
        .setMaxObjectSize(MAX_BYTES)
        .setAsynchronousWorkersMax(1)
        .setSharedCache(true)
impl = new CachingExec(mockBackend, cache, config);

final HttpRequestWrapper req1 = HttpRequestWrapper.wrap(
    new BasicHttpRequest("GET", "/", HttpVersion.HTTP_1_1));
final HttpResponse resp1 = HttpTestUtils.make200Response();
resp1.setHeader("Cache-Control", "public, max-age=5, stale-while-revalidate=15, proxy-revalidate");
resp1.setHeader("ETag",""etag"""");
resp1.setHeader("Date", DateUtils.formatDate(tenSecondsAgo));

backendExpectsAnyRequestAndReturn(resp1);

final HttpRequestWrapper req2 = HttpRequestWrapper.wrap(
    new BasicHttpRequest("GET", "/", HttpVersion.HTTP_1_1));
final HttpResponse resp2 = HttpTestUtils.make200Response();
resp2.setHeader("Cache-Control", "public, max-age=5, stale-while-revalidate=15, proxy-revalidate");
resp2.setHeader("ETag",""etag"""");
resp2.setHeader("Date", DateUtils.formatDate(now));

backendExpectsAnyRequestAndReturn(resp2);

replayMocks();
impl.execute(route, req1, context, null);
final HttpResponse result = impl.execute(route, req2, context, null);
verifyMocks();

assertEquals(HttpStatus.SC_OK, result.getStatusLine().getStatusCode());
boolean warning110Found = false;
for(final Header h : result.getHeaders("Warning")) {
    for(final WarningValue wv : WarningValue.getWarningValues(h)) {
        if (wv.getWarnCode() == 110) {
            warning110Found = true;
            break;
        }
    }
}
assertFalse(warning110Found);

@Test
public void testStaleWhileRevalidateYieldsToExplicitFreshnessRequest() throws Exception {
    final Date now = new Date();
    final Date tenSecondsAgo = new Date(now.getTime() - 10 * 1000L);

    config = CacheConfig.custom()
            .setMaxCacheEntries(MAX_ENTRIES)
impl = new CachingExec(mockBackend, cache, config);

final HttpRequestWrapper req1 = HttpRequestWrapper.wrap(
    new BasicHttpRequest("GET", "/", HttpVersion.HTTP_1_1));
final HttpResponse resp1 = HttpTestUtils.make200Response();
resp1.setHeader("Cache-Control", "public, max-age=5, stale-while-revalidate=15");
resp1.setHeader("ETag","etag");
resp1.setHeader("Date", DateUtils.formatDate(tenSecondsAgo));

backendExpectsAnyRequestAndReturn(resp1);

final HttpRequestWrapper req2 = HttpRequestWrapper.wrap(
    new BasicHttpRequest("GET", "/", HttpVersion.HTTP_1_1));
req2.setHeader("Cache-Control","min-fresh=2");
final HttpResponse resp2 = HttpTestUtils.make200Response();
resp2.setHeader("Cache-Control", "public, max-age=5, stale-while-revalidate=15");
resp2.setHeader("ETag","etag");
resp2.setHeader("Date", DateUtils.formatDate(now));

backendExpectsAnyRequestAndReturn(resp2);
	ereplayMocks();
impl.execute(route, req1, context, null);
final HttpResponse result = impl.execute(route, req2, context, null);
verifyMocks();

assertEquals(HttpStatus.SC_OK, result.getStatusLine().getStatusCode());
boolean warning110Found = false;
for(final Header h : result.getHeaders("Warning")) {
    for(final WarningValue wv : WarningValue.getWarningValues(h)) {
        if (wv.getWarnCode() == 110) {
            warning110Found = true;
            break;
        }
    }
}
assertFalse(warning110Found);

*/

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import java.io.IOException;
import java.util.HashMap;
import java.util.Map;

class SimpleHttpCacheStorage implements HttpCacheStorage {

    public final Map<String,HttpCacheEntry> map;

    public SimpleHttpCacheStorage() {
        map = new HashMap<String,HttpCacheEntry>();
    }

    @Override
    public void putEntry(final String key, final HttpCacheEntry entry) throws IOException {
        map.put(key, entry);
    }

    @Override
    public HttpCacheEntry getEntry(final String key) throws IOException {
        return map.get(key);
    }
}
@Override
public void removeEntry(final String key) throws IOException {
    map.remove(key);
}

@Override
public void updateEntry(final String key, final HttpCacheUpdateCallback callback)
    throws IOException {
    final HttpCacheEntry v1 = map.get(key);
    final HttpCacheEntry v2 = callback.update(v1);
    map.put(key, v2);
}

package org.apache.http.impl.client.cache;

import static junit.framework.TestCase.assertNull;
import static junit.framework.TestCase.assertTrue;
import java.io.ByteArrayInputStream;

import static java.io.ByteArrayInputStream;
import java.util.Date;
import org.apache.http.HttpStatus;
import org.apache.http.HttpStatus;
import org.apache.http.client.methods.HttpHead;
import org.apache.http.client.utils.DateUtils;
import org.junit.Before;
import org.junit.Test;
public class TestResponseProtocolCompliance {

    private ResponseProtocolCompliance impl;

    @Before
    public void setUp() {
        impl = new ResponseProtocolCompliance();
    }

    private static class Flag {
        public boolean set;
    }

    private void setMinimalResponseHeaders(final HttpResponse resp) {
        resp.setHeader("Date", DateUtils.formatDate(new Date()));
        resp.setHeader("Server", "MyServer/1.0");
    }

    private ByteArrayInputStream makeTrackableBody(final int nbytes, final Flag closed) {
        final byte[] buf = HttpTestUtils.getRandomBytes(nbytes);
        final ByteArrayInputStream bais = new ByteArrayInputStream(buf) {
            @Override
            public void close() {
                closed.set = true;
            }
        };
        return bais;
    }
private HttpResponse makePartialResponse(final int nbytes) {
    final HttpResponse resp = new BasicHttpResponse(HttpVersion.HTTP_1_1, HttpStatus.SC_PARTIAL_CONTENT, "Partial Content");
    setMinimalResponseHeaders(resp);
    resp.setHeader("Content-Length", "" + nbytes);
    resp.setHeader("Content-Range", "0-127/256");
    return resp;
}

@Test
public void consumesBodyIfOriginSendsOneInResponseToHEAD() throws Exception {
    final HttpRequestWrapper wrapper = HttpRequestWrapper.wrap(new HttpHead("http://foo.example.com/"));
    final int nbytes = 128;
    final HttpResponse resp = new BasicHttpResponse(HttpVersion.HTTP_1_1, HttpStatus.SC_OK, "OK");
    setMinimalResponseHeaders(resp);
    resp.setHeader("Content-Length", "" + nbytes);

    final Flag closed = new Flag();
    final ByteArrayInputStream bais = makeTrackableBody(nbytes, closed);
    resp.setEntity(new InputStreamEntity(bais, -1));

    impl.ensureProtocolCompliance(wrapper, resp);
    assertNull(resp.getEntity());
    assertTrue(closed.set || bais.read() == -1);
}

@Test(expected=ClientProtocolException.class)
public void throwsExceptionIfOriginReturnsPartialResponseWhenNotRequested() throws Exception {
    final HttpRequestWrapper wrapper = HttpRequestWrapper.wrap(new HttpGet("http://foo.example.com/"));
    final int nbytes = 128;
    final HttpResponse resp = makePartialResponse(nbytes);
    resp.setEntity(HttpTestUtils.makeBody(nbytes));

    impl.ensureProtocolCompliance(wrapper, resp);
}

@Test
public void consumesPartialContentFromOriginEvenIfNotRequested() throws Exception {
    final HttpRequestWrapper wrapper = HttpRequestWrapper.wrap(new HttpGet("http://foo.example.com/"));
    final int nbytes = 128;
    final HttpResponse resp = makePartialResponse(nbytes);

    final Flag closed = new Flag();
    final ByteArrayInputStream bais = makeTrackableBody(nbytes, closed);
    resp.setEntity(new InputStreamEntity(bais, -1));

    try {
        impl.ensureProtocolCompliance(wrapper, resp);
    }
@Test
public void consumesBodyOf100ContinueResponseIfItArrives() throws Exception {
    final HttpEntityEnclosingRequest req = new BasicHttpEntityEnclosingRequest("POST", "/",
        HttpVersion.HTTP_1_1);
    final int nbytes = 128;
    req.setHeader("Content-Length","" + nbytes);
    req.setHeader("Content-Type", "application/octet-stream");
    final HttpEntity postBody = new ByteArrayEntity(HttpTestUtils.getRandomBytes(nbytes));
    req.setEntity(postBody);
    final HttpRequestWrapper wrapper = HttpRequestWrapper.wrap(req);
    final HttpResponse resp = new BasicHttpResponse(HttpVersion.HTTP_1_1, HttpStatus.SC_CONTINUE,
        "Continue");
    final Flag closed = new Flag();
    final ByteArrayInputStream bais = makeTrackableBody(nbytes, closed);
    resp.setEntity(new InputStreamEntity(bais, -1));
    try {
        impl.ensureProtocolCompliance(wrapper, resp);
    } catch (final ClientProtocolException expected) {
    }
    assertTrue(closed.set || bais.read() == -1);
}

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*/
import static org.junit.Assert.assertNotNull;
import static org.junit.Assert.assertSame;

import org.junit.Test;

public class TestMemcachedCacheEntryFactoryImpl {

    @Test
    public void createsMemcachedCacheEntryImpls() {
        final String key = "key";
        final HttpCacheEntry entry = HttpTestUtils.makeCacheEntry();
        final MemcachedCacheEntryFactoryImpl impl = new MemcachedCacheEntryFactoryImpl();
        final MemcachedCacheEntry result = impl.getMemcachedCacheEntry(key, entry);
        assertNotNull(result);
        assertSame(key, result.getStorageKey());
        assertSame(entry, result.getHttpCacheEntry());
    }
}

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*/
import static org.junit.Assert.assertEquals;
import static org.junit.Assert.assertNotNull;
import static org.junit.Assert.assertNull;
import static org.junit.Assert.assertTrue;
import java.io.ByteArrayOutputStream;
import java.io.IOException;
import org.junit.Before;
import org.junit.Test;

public class TestMemcachedCacheEntryImpl {

    private MemcachedCacheEntryImpl impl;
    private HttpCacheEntry entry;

    @Before
    public void setUp() {
        entry = HttpTestUtils.makeCacheEntry();
        impl = new MemcachedCacheEntryImpl("foo", entry);
    }

    @Test
    public void canBeCreatedEmpty() {  
        impl = new MemcachedCacheEntryImpl();
        assertNull(impl.getStorageKey());
        assertNull(impl.getHttpCacheEntry());
    }

    @Test
    public void canBeSerialized() {
        final byte[] bytes = impl.toByteArray();
        assertNotNull(bytes);
    }
}
assertTrue(bytes.length > 0);

@Test
public void knowsItsCacheKey() {
    assertEquals("foo", impl.getStorageKey());
}

@Test
public void knowsItsCacheEntry() {
    assertEquals(entry, impl.getHttpCacheEntry());
}

@Test
public void canBeReconstitutedFromByteArray() throws Exception {
    final String key = impl.getStorageKey();
    final HttpCacheEntry entry1 = impl.getHttpCacheEntry();
    final byte[] bytes = impl.toByteArray();
    impl = new MemcachedCacheEntryImpl();
    impl.set(bytes);

    assertEquals(key, impl.getStorageKey());
    assertEquals(entry1, impl.getHttpCacheEntry());
}

@Test(expected=MemcachedSerializationException.class)
public void cannotReconstituteFromGarbage() {
    impl = new MemcachedCacheEntryImpl();
    final byte[] bytes = HttpTestUtils.getRandomBytes(128);
    impl.set(bytes);
}

private void assertEquivalent(final HttpCacheEntry entry,
                               final HttpCacheEntry resultEntry) throws IOException {
    /* Ugh. Implementing HttpCacheEntry#equals is problematic
     * due to the Resource response body (may cause unexpected
     * I/O to users). Checking that two entries
     * serialize to the same bytes seems simpler, on the whole,
     * (while still making for a somewhat yucky test). At
     * least we encapsulate it off here in its own method so
     * the test that uses it remains clear.
     */
    final DefaultHttpCacheEntrySerializer ser = new DefaultHttpCacheEntrySerializer();
    final ByteArrayOutputStream bos1 = new ByteArrayOutputStream();
    ser.writeTo(entry, bos1);
    final byte[] bytes1 = bos1.toByteArray();
    final ByteArrayOutputStream bos2 = new ByteArrayOutputStream();
    ser.writeTo(resultEntry, bos2);
    ...
final byte[] bytes2 = bos2.toByteArray();
assertEquals(bytes1.length, bytes2.length);
for(int i = 0; i < bytes1.length; i++) {
    assertEquals(bytes1[i], bytes2[i]);
}

1.28 apache-log4j-extras 1.2.17

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1.29 apache-mime4j 0.6

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1.46 attr 2.4.46 :12.el7

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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.

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e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

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.

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From spcecdt@armory.com Wed May 10 10:21:11 1995
Flags: 10
Return-Path: spcecdt@armory.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP
(8.6.10+cwru/CWRU-2.1-ins)
id KAA22876; Wed, 10 May 1995 10:21:10 -0400 (from spcecdt@armory.com for <chet@odin.INS.CWRU.Edu>)
Received: from deepthought.armory.com (mmdf@deepthought.armory.com [192.122.209.42]) by po.cwru.edu with
SMTP (8.6.10+cwru/CWRU-2.3)
id BAA16354; Wed, 10 May 1995 01:33:22 -0400 (from spcecdt@armory.com for <chet@po.cwru.edu>)
From: John DuBois <spcecdt@armory.com>
Date: Tue, 9 May 1995 22:33:12 -0700
In-Reply-To: Chet Ramey <chet@odin.ins.cwru.edu>
"ksh scripts" (May 9, 1:36pm)
X-Www: http://www.armory.com/~spcecdt/
X-Mailer: Mail User's Shell (7.2.5 10/14/92)
To: chet@po.cwru.edu
Subject: Re: ksh scripts
Message-ID: <9505092233.aa13001@deepthought.armory.com>

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

John

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

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

78EE117C99-1483450 Open Source Used in Identity Services Engine 2.4 489
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

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

That's great!

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

-------

From friedman@cli.com Thu May 25 12:19:06 1995
Flags: 10
>Hi. I snagged some of your bash functions from your home directory on
>the FSF machines (naughty, I know), and I was wondering if you'd let
>me distribute them with bash-2.0. Thanks.

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

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

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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 of tile (0, 0). */
protected int tileGridXOffset = 0;

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

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

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

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

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

public SimpleRenderedImage() {}

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

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

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

/**
 * Returns the Y coordinate of the row immediately below the

public final int getMaxY() {
    return getMinY() + getHeight();
}

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

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

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

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

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

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

/** Returns the Y coordinate of the upper-left pixel of tile (0, 0). */
public int getTileGridYOffset() {
    return tileGridYOffset;
}
/**
 * Returns the horizontal index of the leftmost column of tiles.
 * getMinTileX() is implemented in terms of getMinX()
 * and so does not need to be implemented by subclasses.
 */
public int getMinTileX() {
    return XToTileX(getMinX());
}

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

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

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

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

/**
 * Returns the number of tiles along the tile grid in the vertical
* direction. `getMaxYTiles()` is implemented in terms
* of `getMinTileY()` and `getMaxTileY()` and so does not need to be
* implemented by subclasses.
*/
public int getMaxYTiles() {
    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, &lt;code&gt;null&lt;/code&gt; will be returned.
 *
 * @param name the name of the property to get, as a
 * &lt;code&gt;String&lt;/code&gt;.
 * @return a reference to the property
 * &lt;code&gt;Object&lt;/code&gt;, or the value &lt;code&gt;null&lt;/code&gt;
 */
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 &lt;code&gt;String&lt;/code&gt;s representing valid
 * property names.
 */
public String[] getPropertyNames() {
    String[] names = new String[properties.size()];
    int index = 0;
    Enumeration e = properties.keys();
    while (e.hasMoreElements()) {
        String name = (String)e.nextElement();
        names[index++] = name;
    }
properties.keySet().toArray( names );
return names;
}

/**
 * Returns an array of <code>String</code>s recognized as names by
 * this property source that begin with the supplied prefix. If
 * no property names match, <code>null</code> will be returned.
 * The comparison is done in a case-independent manner.
 * <p> The default implementation calls
 * <code>getPropertyNames()</code> and searches the list of names
 * for matches.
 * @return an array of <code>String</code>s giving the valid
 * property names (can be null).
 */
public String[] getPropertyNames(String prefix) {
    String[] propertyNames = getPropertyNames();
    if (propertyNames == null) {
        return null;
    }
    prefix = prefix.toLowerCase();
    List names = new ArrayList();
    for (int i = 0; i < propertyNames.length; i++) {
        if (propertyNames[i].startsWith(prefix)) {
            names.add(propertyNames[i]);
        }
    }
    if (names.size() == 0) {
        return null;
    }
    // Copy the strings from the Vector over to a String array.
    String[] prefixNames = new String[names.size()];
    int count = 0;
    for (Iterator it = names.iterator(); it.hasNext(); ) { // todo xx.toArray()
        prefixNames[count++] = (String)it.next();
    }
    names.toArray( prefixNames );
    return prefixNames;
}
/**
 * Converts a pixel's X coordinate into a horizontal tile index
 * relative to a given tile grid layout specified by its X offset
 * and tile width.
 */

public static int XToTileX(int x, int tileGridXOffset, int tileWidth) {
    x -= tileGridXOffset;
    if (x < 0) {
        x += 1 - tileWidth; // Force round to -infinity
    }
    return x/tileWidth;
}

/**
 * Converts a pixel's Y coordinate into a vertical tile index
 * relative to a given tile grid layout specified by its Y offset
 * and tile height.
 */

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

    return dest;
}
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package org.apache.batik.ext.awt.image.codec.util;

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

/**
* A partial implementation of the ImageEncoder interface useful for subclassing.
*<p><b> This class is not a committed part of the JAI API. It may be removed or changed in future releases of JAI.</b></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 JPEGEncodeParam.
 */
public void setParam(ImageEncodeParam param) {
    this.param = param;
}

/** Returns the OutputStream associated with this ImageEncoder. */
public OutputStream getOutputStream() {
    return output;
}

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

/**
 * Encodes a RenderedImage and writes the output to the
 * OutputStream associated with this ImageEncoder.
 */
public abstract void encode(RenderedImage im) throws IOException;
}
/*
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*/
package org.apache.batik.ext.awt.image.codec.util;

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

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

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

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

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

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

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

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

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

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

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

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

/**
 * Returns a <code>RenderedImage</code> that contains the decoded
 * contents of the <code>SeekableStream</code> associated
 * with this <code>ImageDecoder</code>.
 * The given page of a multi-page image is decoded. If
 * the page does not exist, an IOException will be thrown.
 */
public RenderedImage decodeAsRenderedImage(int page) throws IOException {
    RenderedImage im = decodeAsRenderedImage(page);
    return im.getData();
}
public RenderedImage decodeAsRenderedImage() throws IOException {
    return decodeAsRenderedImage(0);
}

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

public abstract RenderedImage decodeAsRenderedImage(int page)
    throws IOException;

1.67 batik-util 1.7
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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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

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

  Author: Julio Merino <jmmv@NetBSD.org>

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

  Author: Julio Merino <jmmv84@gmail.com>

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

  Author: Julio Merino <jmmv84@gmail.com>

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vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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* configure.ac, Makefile.am: The original versions were derived from the
  ones in the XML Catalog Manager project, version 2.2.

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

* atf-c/ui.c: The format_paragraph and format_text functions were
derived form the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5cf2bb5b6.

  Author: Julio Merino <jmmv@NetBSD.org>
* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
These files were derived from the file_handle, systembuf, pipe and pistream
classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

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

Author: Julio Merino <jmmv84@gmail.com>

===========================================================================
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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Author: Julio Merino <jmmv@NetBSD.org>

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These files were derived from the file_handle, systembuf, pipe and pistream
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Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk,
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They were later adapted to be part of Boost.Process and, during that
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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.

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permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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

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

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

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

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

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

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

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That's all there is to it!
(This file is under construction.).*- text -*.

If you've contributed to gas and your name isn't listed here, it is not meant as a slight. I just don't know about it. Email me, nickc@redhat.com and I'll correct the situation.

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

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

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

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

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

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

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

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

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

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.
Support for the HP9000/300 was contributed by Glenn Engel of HP.

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

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

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

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

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

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

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

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

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

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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@mitiame.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(agi@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 Wed, 17 July 2002, 19:27:00 +0400.

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### 1.89 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).
- Have a plugin and want it listed? Open a Pull Request at [chaijs/chai-docs:plugin.js](https://github.com/chaijs/chai-docs/blob/master/plugins.js#L1-L12).
- 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.

### Contributors

repo age: 2 years, 11 months
active : 189 days
commits : 792
files : 57
authors :

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1.119 commons-beanutils 1.9.2

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<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">

<link rel="apple-touch-icon" sizes="57x57" href="/favicons/apple-touch-icon-57x57.png">
<link rel="apple-touch-icon" sizes="60x60" href="/favicons/apple-touch-icon-60x60.png">
<link rel="apple-touch-icon" sizes="72x72" href="/favicons/apple-touch-icon-72x72.png">
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<link rel="apple-touch-icon" sizes="120x120" href="/favicons/apple-touch-icon-120x120.png">
<link rel="apple-touch-icon" sizes="144x144" href="/favicons/apple-touch-icon-144x144.png">
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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">

</ul>

</div>

</div>

</nav>

</header>

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

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.

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Public License instead of this License. But first, please read

1.150 cracklib 2.9.0 :11.el7
1.150.1 Available under license :

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

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

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16
Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly
and see if he wants to relicense his code as LGPL... but at this point,
it was enough to just get it consistent and documented as to what it was
released under. This wasn't actually a license change, just a
clarification of the licensing that was already in place.=20

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

>=20
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing
> libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

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

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

the original license (before moving to sourceforge -- aka, 2.7) was not=20
GPL-2 ... it was a modified artistic license ... i 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=
eir=20
applications are also GPL-2 which imo is just wrong. it isnt the place of =
a=20
library to dictact to application writes what license they should be using.=
=20
thus LGPL-2.1 enters to fill this void.
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46

Seems like the ideal thing here would be for you and the other distro
maintainers to get together with Alec in a conversation and come to a
decision as to what licensing scheme y'all want. I haven't really done
much other than cleaning up the packaging and patches and a small bit of
additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan

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

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

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

I am sympathetic. Guys, what do you reckon?

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

-a

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

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

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

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

My apologies for not chiming in in anything resembling a reasonable
timeframe.
I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

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

Cheers,

Nalin

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

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

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

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

yes, go for it. thanks++

-a

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

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

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

-mike

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

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

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

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

-------------------------------------
From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
    Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
    Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
    by scanin-ipvps.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 191Gxptr020623
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 esmt (Exim 4.50)
    id 11CoxX-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: <1b1b3fd8071010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
    <EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
    <1b1b3fd8071010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEF69F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.008 (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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c) Accompany the work with a written offer, valid for at
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school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:

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library `Frob` (a library for tweaking knobs) written by James
Random Hacker.

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

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

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

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Copyright (c) 2005-2009 Nathan Neulinger <nneul@umr.edu>,
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Modifications: Added cronjob, configuration file, and man pages.

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Copyright information:

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

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

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

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

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

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

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

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

-- Nathan

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

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries under GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike
Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

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

the original license (before moving to sourceforge -- aka, 2.7) was not
GPL-2 ... it was a modified artistic license ... i 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 th=
eir
applications are also GPL-2 which imo is just wrong. it isn't the place of =
a
library to dictact to application writes what license they should be using.=
thus LGPL-2.1 enters to fill this void.

=2Dmike

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

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

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
Subject: Re: [Cracklib-devel] cracklib license

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

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

I am sympathetic. Guys, what do you reckon?

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

-a

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

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

Devin

--

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

---

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

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

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

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

Cheers,

Nalin

---

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27
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
> In any case, I thank you both for working on sorting this out.
> 
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
> > make the change now ?
> >
> > yes. go for it. thanks++
>
> Nathan Neulinger is the only one who can actually make said change ...
>  
> -mike

----------

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

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

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

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

-------------------------------------
From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959); 
Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959); 
Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.143) 
by scanin-ipv6.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47]) 
by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtrip020623 
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)

MIME-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059f9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059f9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-80DD-56FBFE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
Lines: 21

> > ---------- Forwarded message ----------
> > From: Neulinger, Nathan <nneul@umr.edu>
> > Date: Sep 27, 2007 2:58 PM
> > Subject: RE: cracklib license
> > To: alecm@crypto.dircon.co.uk
> >
> > Any chance you could write me a self-contained email stating clearly
> > that the license is being changed to GPL, so I could include that
> > email
> > in the repository and clean up the repository/tarballs? I have all the
> > original discussion, but something succinct and self contained
> > would be
> > ideal.
>>
> The license for my code in the Cracklib distribution is henceforth GPL.
>
> Happy now? :-)
1.151 cronie 1.4.11 :14.el7_2.1

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

1.152 crontabs 1.11 :6.20121102git.el7

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Version 2, June 1991

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1.153 crypto-utils 2.4.1 :42.el7

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axTLS  http://axtls.sourceforge.net/

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c-ares  http://daniel.haxx.se/projects/c-ares/license.html

(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

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

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

krb4

While nothing in particular says that a Kerberos4 library must use any particular license, the one I've tried and used successfully so far (kth-krb4) is partly Original BSD-licensed with the announcement clause. Some of the code in libcurl that is written to deal with Kerberos4 is Modified BSD-licensed.

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

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fbopenssl

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

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* configure.ac, Makefile.am: The original versions were derived from the
  ones in the XML Catalog Manager project, version 2.2.

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

* atf-c/ui.c: The format_paragraph and format_text functions were
derived from the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5cffe2bb5b6.

  Author: Julio Merino <jmmv@NetBSD.org>
* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
These files were derived from the file_handle, systembuf, pipe and pistream
classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

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

Author: Julio Merino <jmmv84@gmail.com>

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 *dump and restore backup suit
 *Remy Card <card@Linux.EU.Org>, 1994-1997
Stelian Pop <stelian@popies.net>, 1999-2000
Stelian Pop <stelian@popies.net> - Alcve <www.alcove.com>, 2000-2002
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Index: tdbsa/tdb.c

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

- trivial database library - private includes
- 
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 ** NOTE! The following LGPL license applies to the tdb
 ** library. This does NOT imply that all of Samba is released
 #
 # This is a Makefile stub which handles the creation of BSD shared
 # libraries.
 #
 # In order to use this stub, the following makefile variables must be defined.
 #
 # BSDLIB_VERSION = 1.0
 # BSDLIB_IMAGE = libce
 # BSDLIB_MYDIR = et
 # BSDLIB_INSTALL_DIR = $(SHLIBDIR)
 #

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

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

image:$(BSD_LIB)

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

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

install-strip: install

install-shlibs-strip: install-shlibs

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

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ..$(BSD_LIB)

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Gadi Oxman, August 1995

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

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Theodore Ts'o
23-June-2007

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1.207 EasyMock 3.2

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***The art of simplicity is a puzzle of complexity.***

## Overview ##

[YAML](http://yaml.org) is a data serialization format designed for human readability and interaction with scripting languages.

SnakeYAML is a YAML processor for the Java Virtual Machine.

## SnakeYAML features ##

- a **complete** [YAML 1.1 processor](http://yaml.org/spec/1.1/current.html). In particular, SnakeYAML can parse all examples from the specification.
- Unicode support including UTF-8/UTF-16 input/output.
- high-level API for serializing and deserializing native Java objects.
- support for all types from the [YAML types repository](http://yaml.org/type/index.html).
- relatively sensible error messages.

## Info ##

- [Changes](https://bitbucket.org/asomov/snakeyaml/wiki/Changes)
- [Documentation](https://bitbucket.org/asomov/snakeyaml/wiki/Documentation)
## Contribute ##

* Mercurial DVCS is used to dance with the [source code](https://bitbucket.org/asomov/snakeyaml/src).

* If you find a bug in SnakeYAML, please [file a bug report](https://bitbucket.org/asomov/snakeyaml/issues?status=new&status=open).

* You may discuss SnakeYAML at [the mailing list](http://groups.google.com/group/snakeyaml-core).

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JUnRAR (https://github.com/edmund-wagner/junrar/)

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

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

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

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

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

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

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

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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:

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,
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themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
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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
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subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.
4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

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

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

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

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

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

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

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

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

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the
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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 (martintauachmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(agg@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@cs.ucdavis.edu) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.
Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)

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

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

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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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.

@heading TERMS AND CONDITIONS

@enumerate 0
@item 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.

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@item Source Code.

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

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

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

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.

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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:

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@item
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@item
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”.

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@item
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@end enumerate

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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:

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

@item
Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

@item
Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

@item
Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

@end enumerate

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.

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@c man end

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Version 3.1, 31 March 2009

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

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

@end enumerate

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

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

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

@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.

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threshold for this to be true is not precisely defined by law.

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

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

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

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

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

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

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

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

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

@end enumerate

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

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@enumerate a
@item
Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library

...
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@item
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@end enumerate

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@end enumerate

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@end appendix

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

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

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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.

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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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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.

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

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

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

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

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@end enumerate

@end iftex
@end info
@end center
@end ifinfo
@page
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This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

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

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

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.
The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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

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

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

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

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

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

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

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must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
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5. A program that contains no derivative of any portion of the
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linked with it, is called a "work that uses the Library". Such a
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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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1.263 glibc 2.17 :157.el7
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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

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

We call this license the \texttt{Lesser} General Public License because it does \texttt{Less} to protect the user's freedom than the ordinary General Public License. It also provides other free software developers \texttt{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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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
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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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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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

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

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

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

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Appendix: How to Apply These Terms to Your New Libraries

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1.264 glibc 2.17 :157.el7_3.4

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

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@item
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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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@item
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the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

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

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themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
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@item
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Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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@subheading END OF TERMS AND CONDITIONS

@page

@subheading How to Apply These Terms to Your New Libraries

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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
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prepared so as to be conveniently linked with application programs
(which use some of those functions and data) to form executables.

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

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

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

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

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

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

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

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or
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In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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

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

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

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

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

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

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

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

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

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

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

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1.267 gobject-introspection 1.42.0 :1.el7

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    src/preproc/grn/gprint.h
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    src/preproc/grn/hpoint.cpp
    src/preproc/grn/main.cpp

. The `gxditview' output device. It is based on X11's `xditview' program and thus has the X license.

    src/devices/xditview/DESC.in
    src/devices/xditview/Dvi.c
    src/devices/xditview/Dvi.h
    src/devices/xditview/DviP.h
    src/devices/xditview/FontMap
    src/devices/xditview/GXditview.ad
    src/devices/xditview/Menu.h
src/devices/xditview/ad2c
src/devices/xditview/device.c
src/devices/xditview/device.h
src/devices/xditview/draw.c
src/devices/xditview/font.c
src/devices/xditview/gray1.bm
src/devices/xditview/gray2.bm
src/devices/xditview/gray3.bm
src/devices/xditview/gray4.bm
src/devices/xditview/gray5.bm
src/devices/xditview/gray6.bm
src/devices/xditview/gray7.bm
src/devices/xditview/gray8.bm
src/devices/xditview/gxditview.man
src/devices/xditview/lex.c
src/devices/xditview/page.c
src/devices/xditview/parse.c
src/devices/xditview/xdit.bm
src/devices/xditview/xdit_mask.bm
src/devices/xditview/xditview.c

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

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

Macro Packages
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. The -mdoc macro set, using the BSD license.

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

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tmac/e.tmac
tmac/groff_me.man
doc/meintro.me
doc/meref.me
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--------------------

. The file `tmac/hyphen.us' is identical to the file `hyphen.tex', part of the TeX system written by Donald E. Knuth; the master file can be found at

ftp://labrea.stanford.edu/pub/tex/dist/lib/hyphen.tex

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

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. The files `tmac/hyphen.det' and `tmac/hyphen.den' contain the same patterns as the files `dehyphn.tex' and `dehypht.tex' (for TeX), which can be found at

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

This is the Debian GNU/Linux prepackaged version of the GNU groff document formatting system.
GNU groff was written by James Clark <jjc@jclark.com>.
It is now maintained by Ted Harding <ted.harding@nessie.mcc.ac.uk> and Werner Lemberg <wl@gnu.org>.

This Debian package was previously maintained by Fabrizio Polacco <fpolacco@debian.org>.
It is now maintained by Colin Watson <cjwatson@debian.org>.

The original tarball came from <URL:ftp://groff.ffii.org/pub/groff/>:
48fa768dd6fdeb7968041dd5ae8e2b02  groff-1.20.1.tar.gz
and was simply renamed to groff_1.20.1.orig.tar.gz.

Some patches have been applied to groff outside the debian directory.

The Debian diff also appends /usr/share/groff/tmac to the default macro path for compatibility with versions of groff earlier than 1.17 (patch by Colin Watson).

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

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Included in this release are implementations of troff, pic, eqn, tbl,
grn, refer, -man, -mdoc, and -ms macros, and drivers for PostScript, TeX
dvi format, HP LaserJet 4 printers, Canon CAPSL printers, HTML format
(still alpha), and typewriter-like devices. Also included is a modified
version of the Berkeley -me macros, an enhanced version of the X11
xditview previewer, and an implementation of the -mm macros contributed
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I e-mailed the upstream maintainer to clarify the intent of this. Here is the relevant part of the reply:

From: Werner LEMBERG <wl@gnu.org>
To: cjwatson@debian.org
Subject: Re: Clarifying the scope of groff/LICENSE
Date: Thu, 18 Nov 2004 00:19:52 +0100 (CET)

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

The file tmac/hyphen.us is identical to the file hyphen.tex, part of the TeX system written by Donald E. Knuth; the master file can be found at:

ftp://labrea.stanford.edu/pub/tex/dist/lib/hyphen.tex

It has been renamed for consistency, i.e., to make patterns available under the filenames hyphen.<language>, e.g. hyphen.de or hyphen.uk.

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

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

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

The patterns have been converted to a format groff can understand.

    frhyph.tex % French hyphenation patterns
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The file tmac/hyphenex.det is identical to the file dehyphtex.tex, which can be found at:

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

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

. The file `src/libs/snprintf/snprintf.c', written by Mark Martinec <mark.martinec@ijs.si>.

Please look into snprintf.c for the copyright message.

The complete snprintf package together with documentation is available from

    http://www.ijs.si/software/snprintf/   .

. The `grn' preprocessor, written by Barry Roitblat <barry@rentonww.com> and David Slattengren <slatteng@Xinet.COM>. These files have been part of the original Berkeley ditroff distribution, without AT&T code, and are in the public domain.

The original package can be found at

    src/preproc/grn/gprint.h
    src/preproc/grn/hdb.cpp
    src/preproc/grn/hgraph.cpp
    src/preproc/grn/hpoint.cpp
    src/preproc/grn/main.cpp

. The `gxditview' output device. It is based on X11’s `xditview' program.
and thus has the X license.

```
src/devices/xditview/DESC.in
src/devices/xditview/Dvi.c
src/devices/xditview/Dvi.h
src/devices/xditview/DviP.h
src/devices/xditview/FontMap
src/devices/xditview/GXditview.ad
src/devices/xditview/Menu.h
src/devices/xditview/ad2c
src/devices/xditview/device.c
src/devices/xditview/device.h
src/devices/xditview/draw.c
src/devices/xditview/font.c
src/devices/xditview/gray1.bm
src/devices/xditview/gray2.bm
src/devices/xditview/gray3.bm
src/devices/xditview/gray4.bm
src/devices/xditview/gray5.bm
src/devices/xditview/gray6.bm
src/devices/xditview/gray7.bm
src/devices/xditview/gray8.bm
src/devices/xditview/gxditview.man
src/devices/xditview/lex.c
src/devices/xditview/page.c
src/devices/xditview/parse.c
src/devices/xditview/xdit.bm
src/devices/xditview/xdit_mask.bm
src/devices/xditview/xditview.c
```

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

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

**Macro Packages**

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- The -mdoc macro set, using the BSD license.

```
tmac/doc.tmac
tmac/doc-old.tmac
tmac/doc-common
tmac/doc-ditroff
tmac/doc-nroff
tmac/doc-syms
```
Hyphenation Patterns

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. The file `tmac/hyphen.us' is identical to the file `hyphen.tex', part of the TeX system written by Donald E. Knuth; the master file can be found at

    ftp://labrea.stanford.edu/pub/tex/dist/lib/hyphen.tex

It has been renamed for consistency, i.e., to make patterns available under the filenames `hyphen.<language>’, e.g. `hyphen.de’ or `hyphen.uk’.

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

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

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. The files `tmac/hyphen.det' and `tmac/hyphen.den' contain the same patterns as the files `dehyphn.tex' and `dehypht.tex' (for TeX), which can be found at

    http://dante.ctan.org/CTAN/language/hyphenation/dehyphn.tex
    http://dante.ctan.org/CTAN/language/hyphenation/dehypht.tex
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 */
package org.hibernate.validator;

import javax.validation.Configuration;
import javax.validation.ValidatorFactory;
import javax.validation.spi.BootstrapState;
import javax.validation.spi.ConfigurationState;
import javax.validation.spi.ValidationProvider;
import org.hibernate.validator.internal.engine.ConfigurationImpl;
import org.hibernate.validator.internal.engine.ValidatorFactoryImpl;

public class HibernateValidator implements ValidationProvider<HibernateValidatorConfiguration> {

public HibernateValidatorConfiguration createSpecializedConfiguration(BootstrapState state) {
    return HibernateValidatorConfiguration.class.cast( new ConfigurationImpl( this ) );
}

public class HibernateValidatorConfiguration {

    public static Configuration createSpecializedConfiguration(BootstrapState state) {
        return ConfigurationImpl.class.cast( new ConfigurationImpl( this ) );
    }

    public static void main(String[] args) {
        HibernateValidator validator = new HibernateValidator();
        HibernateValidatorConfiguration configuration = validator.createSpecializedConfiguration(null);
    }
}

/****
 * Default implementation of { @code ValidationProvider} within Hibernate Validator.
 *
 * @author Emmanuel Bernard
 * @author Hardy Ferentschik
 */

public static void main(String[] args) {
    HibernateValidator validator = new HibernateValidator();
    HibernateValidatorConfiguration configuration = validator.createSpecializedConfiguration(null);
}

/****
 * Default implementation of { @code ValidationProvider} within Hibernate Validator.
 *
 * @author Emmanuel Bernard
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 */

public static void main(String[] args) {
    HibernateValidator validator = new HibernateValidator();
    HibernateValidatorConfiguration configuration = validator.createSpecializedConfiguration(null);
}

/****
 * Default implementation of { @code ValidationProvider} within Hibernate Validator.
 *
 * @author Emmanuel Bernard
 * @author Hardy Ferentschik
 */

public static void main(String[] args) {
    HibernateValidator validator = new HibernateValidator();
    HibernateValidatorConfiguration configuration = validator.createSpecializedConfiguration(null);
}
public Configuration<?> createGenericConfiguration(BootstrapState state) {
    return new ConfigurationImpl( state );
}

public ValidatorFactory buildValidatorFactory(ConfigurationState configurationState) {
    return new ValidatorFactoryImpl( configurationState );
}

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1.306 hppc 0.7.1

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1.307 http-client-1.0.0.RELEASE 1.0.0

1.308 httpasyncclient 4.1.2

1.308.1 Available under license :

```html
<!DOCTYPE html>
<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">
<link rel="apple-touch-icon" sizes="57x57" href="/favicons/apple-touch-icon-57x57.png">
<link rel="apple-touch-icon" sizes="60x60" href="/favicons/apple-touch-icon-60x60.png">
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<link rel="icon" type="image/png" href="/favicons/favicon-96x96.png" sizes="96x96">
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<link rel="icon" type="image/png" href="/favicons/android-chrome-16x16.png" sizes="16x16">
<link rel="manifest" href="/favicons/manifest.json">
<link rel="shortcut icon" href="/favicons/favicon.ico">
<meta name="msapplication-TileColor" content="#603cba">
<meta name="msapplication-TileImage" content="/favicons/mstile-144x144.png">
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1.309 httpasyncclient 4.0

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1.322 ibatis sqlmap 2.3.0

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* Java Network Programming, Second Edition
  * Merlin Hughes, Michael Shoffner, Derek Hamner
1.323.1 Available under license:

```bash
# ./.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
1.324 ICU4J 4.8.1.1

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1.351 jackson-core-asl-1.9.2.jar 1.9.2

1.352 jackson-coreutils 1.8

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1.353 jackson-databind 2.3.2

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

Pascal GŽlinas:
* 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 failes 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)

### 1.356 Jackson-databind 2.5.4

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# 1.360 jackson-dataformat-yaml 2.5.4

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Jackson is a high-performance, Free/Open Source JSON processing library.

It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.

It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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1.364 jackson-mapper-asl 1.9.2

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1.365 jackson-module-JAXB-annotations

2.3.2

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If you make your own movie, it may include many copyrighted works in it. So, if you decide to make a movie based on your script, you must either create all elements of it on your own, or have permission to use the elements you borrow. Especially keep in mind that photos or artwork hanging on the walls of your sets and music on the soundtrack (even if you own the CD or MP3) may be copyrighted. You should not include copyrighted works such as these in your movie without authorization.

A few other things to keep in mind are:

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Determining the term of copyright can be complex, particularly because copyright laws vary from country to country. Also, even if the copyright on a work has expired, you should be careful about how you use a public domain work. For
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What about fair use?

In limited situations, you can use copyrighted works without permission from the copyright holder. It can be difficult to figure out whether use of copyrighted works without permission is legal, though, because the laws in this area are often vague and vary from country to country.

The copyright law in the United States has a doctrine called fair use. Fair use provides a defense to copyright infringement in some circumstances. For example, fair use allows documentary filmmakers to use very short clips of copyrighted movies, music and news footage without permission from the copyright owner. Fair use is a difficult concept because determining whether something is a fair use involves weighing four factors. Unfortunately, weighing the fair use factors rarely results in a clear-cut answer.

Rather than applying a fair use test, many other countries have specific exceptions to copyright infringement. The number and type of exceptions vary by country, but they frequently allow copyrighted materials to be used without permission from the copyright holder for activities such as nonprofit research, teaching, news reporting, or private study.

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</module>

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    version='2.0b5'
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    description='Lightweight Scripting for Java. Used mainly by the BSH protocol (uncomplete) (runtime)'>
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</module>

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       projectHome='http://creativecommons.org/licenses/by/2.5/
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       description='ANT (compile time), needed for generation of test reports'>
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<module name='xalan' licenseType='apache-2.0' version='2.4.D1'
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  <jar name='xalan.jar'/>
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1.407 jcip-annotations 1.0

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1.409 jcodings 1.0.12

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/*...*/

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

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*/

package org.jdom;

/**
An XML comment. Methods allow the user to get and set the text of the
comment.

@version $Revision: 1.32 $, $Date: 2004/02/11 21:12:43 $
@author Brett McLaughlin
@author Jason Hunter
*/

public class Comment extends Content {

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

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

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

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

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

    /**
     * This returns the textual data within the <code>Comment</code>.
     *
     * @return <code>String</code> - text of comment.
     */
    public String getText() {
        return text;
    }
/**
 * This will set the value of the <code>Comment</code>.
 *
 * @param text <code>String</code> text for comment.
 * @return <code>Comment</code> - this Comment modified.
 * @throws IllegalDataException if the given text is illegal for a
 *      Comment.
 */

public Comment setText(String text) {
    String reason;
    if ((reason = Verifier.checkCommentData(text)) != null) {
        throw new IllegalDataException(text, "comment", reason);
    }

    this.text = text;
    return this;
}

/**
 * This returns a <code>String</code> representation of the
 * <code>Comment</code>, suitable for debugging. If the XML
 * representation of the <code>Comment</code> is desired,
 * <code>{@link org.jdom.output.XMLOutputter#outputString(Comment)}</code>
 * should be used.
 *
 *@return <code>String</code> - information about the
 *      <code>Attribute</code>
 */

public String toString() {
    return new StringBuffer()
        .append("[Comment: ")
        .append(new org.jdom.output.XMLOutputter().outputString(this))
        .append("
    ")
        .toString();
}

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That's all there is to it!

/*
jMimeMagic(TM) is a Java library for determining the content type of files or streams.

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Version 1.1

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# PC Screen (console) Fonts - psf1 header
0  leshort  0x0436  psf screen font data
>2  byte  0  256 characters, no index
>2  byte  1  512 characters, no index
>2byte 2256 characters, Unicode index
>2byte 3512 characters, Unicode index
>2byte 4256 characters, Unicode level 2 index
>2byte 5512 characters, Unicode level 2 index
>3byte 8x%d
#
# PC Screen (console) Fonts - psf2 header
#
0  lelong  0x864ab572  psf2 screen font data
>12 lelong&1 with Unicode index
>16 lelong\xb, %d glyphs
>28 lelong\xb, %dx
>24 lelong\xb%d

1.480 kernel 3.10.0 :693.el7
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single nxt200x frontend driver.

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

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for the initial saa7146 driver and its recent overhaul

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for his work on the initial Linux DVB driver

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Ralph Metzler <rjkm@metzlerbros.de>
for their continuing work on the DVB driver

Michael Holzt <kju@debian.org>
for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

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for patching the cable card decoder driver

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

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for the nxt2004 frontend driver

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for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

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/* 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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1.482 kexec-tools 2.0.14 :17.el7

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1.483 keyutils 1.5.8 :3.el7

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derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

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

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
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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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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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.)

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# and license statements in source code comments.

import os
import sys
import re

def warn(fname, ln, msg):
    print '%s: %d: %s' % (fname, ln + 1, msg)

def indicates_license(line):
    return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line

# Check a comment for boilerplate violations. Return true if the comment
# is a license statement.
def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
    text_seen = False
    is_license = False
    for line in comment:
        if not is_license and indicates_license(line):
            is_license = True
        if text_seen:
            warn(fname, ln, 'License begins after first line of comment')
        elif code_seen:
            warn(fname, ln, 'License after code')
        elif nonlicense_seen:
            warn(fname, ln, 'License after non-license comments')
        break
    # DB2 licenses start with '/*-/' and we don't want to change them.
    if line != '' and line != '/*-
    if line != " and line != '+';
text_seen = True
return is_license

def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if ' -* mode: c;' in lines[ln]:
        ln += 1
    # Check filename comment if present.
    m = re.match(r'^ *([^ ]*) (-.*?)* */', lines[ln])
    if m:
        if m.group(1) != fname:
            warn(fname, ln, 'Wrong filename in comment')
        ln += 1
    # Scan for license statements.
    in_comment = False
    code_seen = False
    nonlicense_seen = False
    for line in lines[ln:]:
        # Strip out whitespace and comments contained within a line.
        if not in_comment:
            line = re.sub(r'/\*.*?\*/', '', line)
            line = line.strip()
        if not in_comment and '/*' in line:
            (line, sep, comment_part) = line.partition('/*')
            comment = [comment_part.strip()]
            comment_starts_at = ln
            in_comment = True
        elif in_comment and '*/' not in line:
            comment.append(line.lstrip('*').lstrip())
        elif in_comment:
            (comment_part, sep, line) = line.partition('*/')
            comment.append(comment_part.strip())
        is_license = check_comment(comment, fname, comment_starts_at,
                                     code_seen, nonlicense_seen)
        nonlicense_seen = nonlicense_seen or not is_license
        in_comment = False
        elif line.strip() != '':
            code_seen = True
        ln += 1
    for fname in sys.argv[1:]:
        if fname.startswith('./'): fname = fname[2:]
f = open(fname)
lines = f.readlines()
f.close()
check_file(lines, fname)

/* -*.- mode: c; c-basic-offset: 4; indent-tabs-mode: nil -*.- */
/*
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    lib/gss_mechs/mech_krb5/et/kdb5_err.c
    lib/gss_mechs/mech_spnego/mecg/gssapiP_spnego.h
    lib/gss_mechs/mech_spnego/mecg/spnego_mech.c
    lib/krb5/kadm5/kadm_host_srv_names.c
    lib/krb5/kdb/kdb_convert.c
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```
lib/gssapi/generic/gssapi_err_generic.c
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
```
the initial implementation of incremental propagation, including the following new or changed files:

```
include /iprop_hdr.h
```

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

.. parsed-literal::

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

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

.. parsed-literal::
include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kpropd_rpc.c

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

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

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

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplg.c

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snakeyaml-NOTICE

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***The art of simplicity is a puzzle of complexity.***

## Overview ##

[YAML](http://yaml.org) is a data serialization format designed for human readability and interaction with scripting languages.

SnakeYAML is a YAML processor for the Java Virtual Machine.

## SnakeYAML features ##

* a **complete** [YAML 1.1 processor](http://yaml.org/spec/1.1/current.html). In particular, SnakeYAML can parse all examples from the specification.
* Unicode support including UTF-8/UTF-16 input/output.
* high-level API for serializing and deserializing native Java objects.
* support for all types from the [YAML types repository](http://yaml.org/type/index.html).
* relatively sensible error messages.

## Info ##

* [Changes](https://bitbucket.org/asomov/snakeyaml/wiki/Changes)
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A number of small but very helpful changes have been contributed by Adrien Grand (https://github.com/jpountz)

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1.494 lang-painless 5.2.2

1.495 lang-tag-1.4 1.4
1.496 less 458 :9.el7

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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
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@item
Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

@end enumerate

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.

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@enumerate a
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@item
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#
# written by Paul Marquess (pmqs@cpan.org)
# last modified 28th October 2007
# version 1.818
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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

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

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

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

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

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

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"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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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
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source code from the same place satisfies the requirement to
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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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b) Use a suitable shared library mechanism for linking with the
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That's all there is to it!

1.518 libnetfilter_conntrack 1.0.4 :2.el7

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<signature of Ty Coon>, 1 April 1989
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1.520 libnfsidmap 0.25 :15.el7

1.520.1 Available under license:
This package was debianized by J. Bruce Fields <bfields@citi.umich.edu> on Fri, 6 Aug 2004 16:10:43 -0400.

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1.521 libnl 1.1.4 :3.el7

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(For example, a function in a library to compute square roots has
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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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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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

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

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

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

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

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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

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

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1.536 libtalloc 2.1.6 :1.el7

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1.537 libtasn1 3.8 :3.el7

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

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

However, unrestricted linking of non-free programs would deprive the
users of those programs of all benefit from the free status of the
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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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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1.546 libutempter 1.1.6 :4.el7

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Preamble

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Licenses are intended to guarantee your freedom to share and change free software—-to make sure the software is free for all its users.

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

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

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

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

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

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

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

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

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

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

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

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

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

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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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1.547 libverto 0.2.5 :4.el7

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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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  Many optimizations in libsensors and sensors.
  Configuration file converter.
Rewrite of sensors-detect.
Support for multiple configuration files in libsensors.

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/*
@(#)IllegalWriteException.java 1.5 05/08/29
*
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*/

package javax.mail;

/**
 * The exception thrown when a write is attempted on a read-only attribute
 * of any Messaging object.
 *
 * @author John Mani
 */

public class IllegalWriteException extends MessagingException {

    private static final long serialVersionUID = 3974370223328268013L;

    /**
     * Constructs a IllegalWriteException with no detail message.
     */
    public IllegalWriteException() {
        super();
    }

    /**
     * Constructs a IllegalWriteException with the specified detail message.
     * @param s the detail message
     */
    public IllegalWriteException(String s) {
        super(s);
    }
}
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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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The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

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```
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<p></p>

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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" &\& \n
grep -q "GNU MPFR Library" "$file" &\& \n
grep -q "either version $gpl of the License" "$file" &\& continue
echo "Possibly missing or incorrect copyright notice in $file"
err=1
done

exit $err
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@c @node GNU Free Documentation License
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1.610 mtools 4.0.18 :5.el7

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1.619 net-snmp-libs 5.7.2 :24.el7_3.2

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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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1.634 Nimbus-Jose-Jwt-3.1.2 3.1.2

1.635 Nmap 7.00

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$Id: 3rd-party-licenses.txt 29907 2012-10-02 00:53:12Z david $

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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/
o OpenSSL: Cryptographic library. OpenSSL is used by service detection and by NSE to connect to SSL services. NSE also provides access to OpenSSL functions such as encryption and digest calculation. OpenSSL can be disabled by configuring with the `--without-openssl` configuration directive.
http://www.openssl.org/
o LIBLINEAR. Used for IPv6 OS classification.
http://www.csie.ntu.edu.tw/~cjlin/liblinear/
o libsvn. The Subversion library, used by the updater program

On Windows only, Nmap uses:
o WinPcap: libpcap for Windows. The libpcap license applies to WinPcap, and it also has its own license. A binary copy of the library is distributed with Nmap in the subdirectory mswin32/winpcap.
http://www.winpcap.org/

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Zenmap and Ndiff require:
o Python. The binary distributions of Nmap include a Python interpreter and various libraries, built using either py2exe or py2app.
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o **PyCairo**: bindings for Python. Dual-licensed under the GNU LGPL 2.1 and the MPL 1.1.

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

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Written by: Philip Hazel
Email local part: ph10
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# contribution to the Google C++ Testing Framework project. People
# who commit code to the project are encouraged to add their names
# here. Please keep the list sorted by first names.

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47. [51] Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
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>>> convertutf.c/.h from unicode, inc.-none

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1.659 org.eclipse.persistence.core 2.5.0

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1.660 org.eclipse.persistence.moxy 2.5.0

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1.661 oro 2.0.8

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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.

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

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

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

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

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

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

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.
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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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

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

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
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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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1.667 pam_pkcs11 0.6.2 :24.2.el7

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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.

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

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

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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

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b) Use a suitable shared library mechanism for linking with the
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analysis/common/src/resources/org/apache/lucene/analysis/fa/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt

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(common) are based on BSD-licensed reference implementations created by Jacques Savoy and
Ljiljana Dolamic. These files reside in:
analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
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===========================================================================

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***The art of simplicity is a puzzle of complexity.***

## Overview ##

[YAML](http://yaml.org) is a data serialization format designed for human readability and interaction with scripting languages.

SnakeYAML is a YAML processor for the Java Virtual Machine.

## SnakeYAML features ##

* a **complete** [YAML 1.1 processor](http://yaml.org/spec/1.1/current.html). In particular, SnakeYAML can parse all examples from the specification.
* Unicode support including UTF-8/UTF-16 input/output.
* high-level API for serializing and deserializing native Java objects.
* support for all types from the [YAML types repository](http://yaml.org/type/index.html).
* relatively sensible error messages.

## Info ##
* [Changes](https://bitbucket.org/asomov/snakeyaml/wiki/Changes)
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The code for the t-digest was originally authored by Ted Dunning

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

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1.680 perl-Carp 1.26 :244.el7
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1.681 perl-constant 1.27 :2.el7
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1.682 perl-Data-Dumper 2.145 :3.el7
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1.684 perl-Encode 2.51 :7.el7
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1.685 perl-Exporter 5.68 :3.el7
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1.686 perl-File-Path 2.09 :2.el7
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1.687 perl-File-Temp 0.23.01 :3.el7
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1.691 perl-libs 5.16.3 :291.el7
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<signature of Ty Coon>, 1 April 1989
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------------------------------------------------------------------------

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Julian Seward, jseward@bzip.org
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
use strict;
use lib 't/lib';
use MBTest;
use DistGen;

plan 'no_plan':

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

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

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

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

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

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

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

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

my $meta = $mb->get_metadata( fatal => 0 );
is( $meta->{license} => 'unrestricted', "META license will be 'unrestricted'" );
is( $meta->{resources}{license}, "http://example.com/vaporware/",
  "META license URL is correct"
);

}

# Test with alpha number
# vim:ts=2:sw=2:et:sta:sts=2
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That's all there is to it!
--------------------------------------------------------------------------------

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

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

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78EE117C99-1483450
Open Source Used In Identity Services Engine 2.4
6374
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

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Ty Coon, President of Vice

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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
use strict;
use lib 't/lib';
use MBTest;
use DistGen;

plan 'no_plan';

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

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

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

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

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

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

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

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

my $meta = $mb->get_metadata( fatal => 0 );
is( $meta->{license} => 'unrestricted', "META license will be 'unrestricted'" );
is( $meta->{resources}[license], "http://example.com/vaporware/", "META license URL is correct"
);

}

# Test with alpha number
# vim:ts=2:sw=2:et:sta:sts=2
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<signature of Ty Coon>, 1 April 1989
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changing the library, is in some sense simply using the library, and is
analogous to running a utility program or application program. However, in
a textual and legal sense, the linked executable is a combined work, a
derivative of the original library, and the ordinary General Public License
treats it as such.

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

However, unrestricted linking of non-free programs would deprive
the users of those programs of all benefit from the free status of the
libraries themselves. This Library General Public License is intended to
permit developers of non-free programs to use free libraries, while
preserving your freedom as a user of such programs to change the free
libraries that are incorporated in them. (We have not seen how to achieve
this as regards changes in header files, but we have achieved it as regards
changes in the actual functions of the Library.) The hope is that this
will lead to faster development of free libraries.
The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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

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

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

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

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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

<one line to give the library's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

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

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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 Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

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

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

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

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

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

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

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

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

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

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.

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1.724 postfix 2.10.1 :6.el7

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1.745 psacct 6.6.1 :11.el7

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/* dirname.c -- return all but the last element in a file name

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#include <config.h>
#include "dirname.h"
#include <stdlib.h>
#include <string.h>

/* 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]))

    length = prefix_length + 1;  /* plus the "." */
    return length;
}
? ((DOUBLE_SLASH_IS_DISTINCT_ROOT
   && ISSLASH (file[1]) && ! ISSLASH (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 (! ISSLASH (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)
#define weak_alias(local, symbol)
#define __canonicalize_file_name canonicalize_file_name
#define __realpath realpath
#define __readlink readlink
#define __set_errno(e) errno = (e)
#endif

#else
#define ((__getcwd(buf, max)) getcwd (buf, max, 0))
#endif

#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 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)
{
#ifdef _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 = malloca (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)
        mempcpy (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; 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. */

/* This declaration is solely to ensure that after preprocessing
this file is never empty. */
typedef int dummy;

#endif

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1.753 pyOpenSSL 0.13.1

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1.754 python 2.7.5 :58.el7

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.. highlight:: none

.. _history-and-license:

*******************
History and License
*******************

History of the software
------------------------

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl/) in the Netherlands as a
successor of a language called ABC. Guido remains Python's principal author,
although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National
Research Initiatives (CNRI, see http://www.cnri.reston.va.us/) in Reston,
Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to
form the BeOpen PythonLabs team. In October of the same year, the PythonLabs
team moved to Digital Creations (now Zope Corporation; see
http://www.zope.com/). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org/ for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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Mersenne Twister
----------------
The :mod:`_random` module includes code based on a download from
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the verbatim comments from the original code::

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).

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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
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Sockets
-------
The `socket` module uses the functions, `getaddrinfo`, and `getnameinfo`, which are coded in separate source files from the WIDE Project, http://www.wide.ad.jp/.

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

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MD5 message digest algorithm

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at

http://www.ietf.org/rfc/rfc1321.txt

The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321;
   now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5);
   added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

Asynchronous socket services
-------------------------------

The :mod:`asynchat` and :mod:`asyncore` modules contain the following notice::

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Execution tracing

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

XML Remote Procedure Calls

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test_epoll

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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1.758 python-dateutil 1.5 :7.el7

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1.760 python-dmidecode 3.10.13 :11.el7

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1.762 python-gudev 147.2 :7.el7

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1.763 python-hwdata 1.7.3 :4.el7

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1.764 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.

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1.766 python-lxml 3.2.1 :4.el7

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1.768 python-pyudev 0.15 :6.el7
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1.769 python-rhsm 1.17.9 :1.el7

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work
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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
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that the user who changes the contents of definitions files in the
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to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
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c) Accompany the work with a written offer, valid for at
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d) If distribution of the work is made by offering access to copy
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For an executable, the required form of the "work that uses the
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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
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These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

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

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

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also combine or
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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
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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
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changes in the actual functions of the Library.) The hope is that this
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The precise terms and conditions for copying, distribution and
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portion of it, either verbatim or with modifications and/or translated
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"Source code" for a work means the preferred form of the work for
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all the source code for all modules it contains, plus any associated
interface definition files, plus the scripts used to control compilation
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covered by this License; they are outside its scope. The act of
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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.

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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
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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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In addition, mere aggregation of another work not based on the Library
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This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or
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must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
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distribute the source code, even though third parties are not
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6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

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

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

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

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Appendix: How to Apply These Terms to Your New Libraries

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1.801 rpm 4.11.3 :21.el7
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**1.803 rpm-python 4.11.3 :21.el7**

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

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on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

That's all there is to it!

1.804 rsync 3.0.9 :17.el7

1.804.1 Available under license :

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{1.811 sed 4.2.2 :5.el7
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============
Test 1.1:101
============
Testing argument parsing
First type
e1_l1_1
e1_l1_1
e1_l1_2
e1_l1_2
Test 1.2:102

Test 1.3:103
Test 1.4:104

Second type

Test 1.4.1:105
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
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 1.7:108

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
Test 1.9:110

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

Test 1.10:111

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

Test 1.11:112

e1_l1_1
e1_l1_2
e1_l1_3
e1_l1_4
e1_l1_5
e1_l1_6
e1_l1_7
e1_l1_8
e1_l1_9
Test 1.12:113
=============
e1_l1_1
e1_l1_2
e1_l1_3
e1_l1_4
e1_l1_5
e1_l1_6
e1_l1_7
e1_l1_8
e1_l1_9
e1_l1_10
e1_l1_11
e1_l1_12
e1_l1_13
e1_l1_14

Test 1.13:114
=============
e1_l1_1
e2_e1_l1_1
e2_e1_l1_1
e1_l1_2
e2_e1_l1_2
e2_e1_l1_2
e1_l1_3
e2_e1_l1_3
e2_e1_l1_3
e1_l1_4
e2_e1_l1_4
e2_e1_l1_4
e1_l1_5
e2_e1_l1_5
e2_e1_l1_5
e1_l1_6
e2_e1_l1_6
e2_e1_l1_6
e1_l1_7
e2_e1_l1_7
e2_e1_l1_7
e1_l1_8
e2_e1_l1_8
e2_e1_l1_8
e1_l1_9
e2_e1_l1_9
e2_e1_l1_9
e1_l1_10
e2_e1_l1_10
e2_e1_l1_10
e1_l1_11
e2_e1_l1_11
e2_e1_l1_11
e1_l1_12
e2_e1_l1_12
e2_e1_l1_12
e1_l1_13
e2_e1_l1_13
e2_e1_l1_13
e1_l1_14
e2_e1_l1_14
e2_e1_l1_14

==============
Test 1.14:115
==============
s1_l1_1
s2_s1_l1_1
s2_s1_l1_1
s1_l1_2
s2_s1_l1_2
s2_s1_l1_2
s1_l1_3
s2_s1_l1_3
s2_s1_l1_3
s1_l1_4
s2_s1_l1_4
s2_s1_l1_4
s1_l1_5
s2_s1_l1_5
s2_s1_l1_5
s1_l1_6
s2_s1_l1_6
s2_s1_l1_6
s1_l1_7
s2_s1_l1_7
s2_s1_l1_7
s1_l1_8
s2_s1_l1_8
Open Source Used in Identity Services Engine 2.4
Test 1.17:118
Testing address ranges

Test 1.18:119

Test 2.1:120

Test 2.2:121

Test 2.3:122
Test 2.4:123

Test 2.5:124

Test 2.6:125

Test 2.7:126

Test 2.9:127

Test 2.10:128

Test 2.11:129

Test 2.12:130

Test 2.13:131
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
12_3
12_4
12_5
12_6
12_7
12_8
12_9

===========
Test 2.16:134

===========
11_4
11_5
11_6
11_7
11_8
11_9
11_10
11_11
11_12
11_13
11_14
12_1
12_2
12_3
12_4
12_5
12_6

===========
Test 2.17:135

===========
11_4
Test 2.18:136

Test 2.19:137

Test 2.20:138

Brace and other grouping

Test 3.1:139
Testing a c d and i commands

===============
Test 4.1:143
===============
before il1_1
after_i before il1_1
before il1_2
after_i before il1_2
before il1_3
after_i before il1_3
before il1_4
after_i before il1_4
before il1_5
after_i before il1_5
before il1_6
after_i before il1_6
before il1_7
after_i before il1_7
before il1_8
after_i before il1_8
before il1_9
after_i before il1_9
before il1_10
after_i before il1_10
before il1_11
after_i before il1_11
before il1_12
after_i before il1_12
before il1_13
after_i before il1_13
before il1_14
after_i before il1_14
before il2_1
Test 4.2:144

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

before_a5-12l1_1
after_abefore_a5-12l1_1
before_a5-12l1_2
after_abbefore_a5-12l1_2
before_a5-12l1_3
after_abbefore_a5-12l1_3
before_a5-12l1_4
after_abbefore_a5-12l1_4
before_a5-12l1_5
after_abbefore_a5-12l1_5
inserted
before_a5-12l1_6
after_abbefore_a5-12l1_6
inserted
before_a5-12l1_7
after_abbefore_a5-12l1_7
inserted
before_a5-12l1_8
after_abbefore_a5-12l1_8
inserted
before_a5-12l1_9
after_abbefore_a5-12l1_9
inserted
before_a5-12l1_10
after_abbefore_a5-12l1_10
inserted

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

Test 4.2:144
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
-------------
^al1_1
^al1_1$
appended
^al1_2
^al1_2$
appended
^al1_3
^al1_3$
appended
^al1_4
^al1_4$
appended
^al1_5
^al1_5$
appended
^al1_6
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
Test 5.2:152

Test 5.3:153

Test 5.4:154
Pattern space commands

============
Test 6.1:159
============
changed
changed
changed
changed
changed
changed
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
Test 6.4:162

Test 6.5:163
Test 6.6:164

Testing print and file routines

Test 7.1:165

Test 7.2:166
12_4
19
12_5
20
12_6
21
12_7
22
12_8
23
12_9

==========
Test 7.3:167
==========
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
w results
11_3
11_4
11_5
11_6
11_7
11_8
11_9
11_10
11_11
11_12

==========
Test 7.4:168
==========
11_1
11_2
11_3
11_4
Open Source Used In Identity Services Engine 2.4

Test 7.5:169

Test 7.6:170
Testing substitution commands

Test 8.1:172

Test 8.2:173
Test 8.3:174

Test 8.4:175

Test 8.5:176
Test 8.6:177

Test 8.7:178

Test 8.8:179
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
Test 8.10:181

Test 8.11:182

s wfile results
IX_1
IX_2
IX_3
IX_4
IX_5
IX_6
IX_7
IX_8
IX_9
IX_10
IX_11
IX_12
IX_13
IX_14

=============
Test 8.12:183
==============
IX_X
IX_X
IX_X
IX_4
IX_5
IX_6
IX_7
IX_8
IX_9
IX_X0
IX_XX
IX_XX
IX_XX
IX_X4

============= 
Test 8.13:184 
==============
I8_8
I8_7
I8_6
I8_5
I8_4
I8_3
I8_2
I8_1
I8_0
I8_89
I8_88
I8_87
Test 8.14:185

Test 8.15:186

Test 8.16:187
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1.821 shadow-utils 4.1.5.1 :24.el7

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

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

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

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

    /**
     * Return a Marker instance as specified by the name parameter using the
     * previously bound { @link IMarkerFactory}instance.
     * 
     * @param name
     * @return Marker
     */
    public static Marker createMarker(String name, char prefix, String suffix, String description) {
        return markerFactory.createMarker(name, prefix, suffix, description);
    }
}

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* @param name
* The name of the {@link Marker} object to return.
* @return marker */
public static Marker getMarker(String name) {
    return markerFactory.getMarker(name);
}

/**
* Create a marker which is detached (even at birth) from the MarkerFactory.
* @param name the name of the marker
* @since 1.5.1
* @return a dangling marker */
public static Marker getDetachedMarker(String name) {
    return markerFactory.getDetachedMarker(name);
}

/**
* Return the {@link IMarkerFactory}instance in use.
* @return the IMarkerFactory instance in use */
public static IMarkerFactory getIMarkerFactory() {
    return markerFactory;
}

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1.844 snmp4j 1.11.1

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package org.snmp4j.util;

import java.text.*;
import org.snmp4j.smi.OctetString;
import org.snmp4j.smi.OID;
import java.util.StringTokenizer;

/**
 * The <code>SimpleOIDTextFormat</code> implements a simple textual
 * representation for object IDs as dotted string.
 * @author Frank Fock
 * @version 2.2
 * @since 1.10
 */
public class SimpleOIDTextFormat implements OIDTextFormat {

/**
 * Creates a simple OID text format.
 */
public SimpleOIDTextFormat() {
}

/**
 * Returns a textual representation of a raw object ID as dotted
 * string ("1.3.6.1.4").
 *
 * @param value
 *    the OID value to format.
 * @return
 *    the textual representation.
 */
public static String formatOID(int[] value) {
    StringBuilder buf = new StringBuilder(3*value.length);
    for (int i=0; i<value.length; i++) {
        if (i != 0) {
            buf.append('.');
        }
        buf.append((value[i] & 0xFFFFFFFFL));
    }
    return buf.toString();
}

/**
 * Returns a textual representation of a raw object ID as dotted
 * string ("1.3.6.1.4").
 *
 * @param value
 *    the OID value to format.
 * @return
 *    the textual representation.
 */
public String format(int[] value) {
    return SimpleOIDTextFormat.formatOID(value);
}

/**
 * Returns a textual representation of a raw object ID as dotted
 * string ("1.3.6.1.4"). This method is the same as {@link #format(int[])}.
 *
 * @param value
 *    the OID value to format.
 * @return
 *    the textual representation.
 */
public String formatForRoundTrip(int[] value) {
    return format(value);
}
/**
 * Parses a textual representation of an object ID as dotted string
 * (e.g. "1.3.6.1.2.1.1") and returns its raw value.
 *
 * @param text
 *    a textual representation of an OID.
 * @return
 *    the raw OID value.
 * @throws ParseException
 *    if the OID cannot be parsed successfully.
 */

public static int[] parseOID(String text) throws ParseException {
    StringTokenizer st = new StringTokenizer(text, ".", true);
    int size = st.countTokens();
    int[] value = new int[size];
    size = 0;
    StringBuffer buf = null;
    while (st.hasMoreTokens()) {
        String t = st.nextToken();
        if ((buf == null) && t.startsWith("'")) {
            buf = new StringBuffer();
            t = t.substring(1);
        }
        if ((buf != null) && t.endsWith("'")) {
            buf.append(t.substring(0, t.length()-1));
            OID o = new OctetString(buf.toString()).toSubIndex(true);
            int[] h = value;
            value = new int[st.countTokens()+h.length+o.size()];
            System.arraycopy(h, 0, value, 0, size);
            System.arraycopy(o.getValue(), 0, value, size, o.size());
            size += o.size();
            buf = null;
        } else if (buf != null) {
            buf.append(t);
        } else if (!".".equals(t)) {
            value[size++] = (int) Long.parseLong(t.trim());
        }
    }
    if (size < value.length) {
        int[] h = value;
        value = new int[size];
        System.arraycopy(h, 0, value, 0, size);
    }
    return value;
}
/**
 * Parses a textual representation of an object ID as dotted string
 * (e.g. "1.3.6.1.2.1.1") and returns its raw value.
 *
 * @param text
 *    a textual representation of an OID.
 * @return
 *    the raw OID value.
 * @throws ParseException
 *    if the OID cannot be parsed successfully.
 */
public int[] parse(String text) throws ParseException {
    return SimpleOIDTextFormat.parseOID(text);
}

/*_############################################################################
_##  SNMP4J 2 - SimpleVariableTextFormat.java
_##  Copyright (C) 2003-2013  Frank Fock and Jochen Katz (SNMP4J.org)
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_##  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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_##  limitations under the License.
_##
_############################################################################*/
package org.snmp4j.util;
import java.text.*;
import org.snmp4j.smi.*;
import org.snmp4j.SNMP4JSettings;

/**
 * The <code>SimpleVariableTextFormat</code> implements a simple textual
 * representation for SNMP variables based on their type only.
 * No MIB information is used (can be used).
 */

public class SimpleVariableTextFormat implements VariableTextFormat {

/**
 * Creates a simple variable text format.
 */
public SimpleVariableTextFormat() {
}

/**
 * Returns a textual representation of the supplied variable against the
 * optionally supplied instance OID.
 *
 * @param instanceOID the instance OID <code>variable</code> is associated
 * with. If <code>null</code> the formatting cannot take any MIB
 * specification of the variable into account and has to format it based
 * on its type only.
 * @param variable
 *    the variable to format.
 * @param withOID
 *    if <code>true</code> the <code>instanceOID</code> should be included
 *    in the textual representation to form a {@link VariableBinding}
 *    representation.
 * @return the textual representation.
 */
public String format(OID instanceOID, Variable variable, boolean withOID) {
   return (withOID) ?
      SNMP4JSettings.getOIDTextFormat().format(instanceOID.getValue()) +
            " = " + variable +
      : variable.toString();
}

/**
 * This operation is not supported by {@link SimpleVariableTextFormat}.
 *
 * @param smiSyntax the SMI syntax identifier identifying the target
 * <code>Variable</code>.
 * @param text a textual representation of the variable.
 * @return the new <code>Variable</code> instance.
 * @throws ParseException if the variable cannot be parsed successfully.
 */
public Variable parse(int smiSyntax, String text) throws ParseException {
   Variable v = AbstractVariable.createFromSyntax(smiSyntax);
   if (v instanceof AssignableFromString) {
      ((AssignableFromString)v).setValue(text);
   }
}

public Variable parse(OID classOrInstanceOID, String text) throws ParseException {
    throw new UnsupportedOperationException();
}

public VariableBinding parseVariableBinding(String text) throws ParseException {
    int assignmentPos = text.indexOf(" = ");
    if (assignmentPos <= 0) {
        throw new ParseException("Could not locate assignment ' = ' string in " +
            text, 0);
    }
    OID oid = new OID(SNMP4JSettings.getOIDTextFormat().
        parse(text.substring(0, assignmentPos)));
    Variable var = parse(oid, text.substring(assignmentPos+3));
    return new VariableBinding(oid, var);
}
void MessageDispatcherImpl()

import java.io.IOException;
import java.util.*;
import org.snmp4j.asn1.*;
import org.snmp4j.event.*;
import org.snmp4j.log.*;
import org.snmp4j.mp.*;
import org.snmp4j.security.SecurityLevel;
import org.snmp4j.security.TsmSecurityStateReference;
import org.snmp4j.smi.*;
import java.nio.ByteBuffer;
import org.snmp4j.transport.UnsupportedAddressClassException;

/**
 * The <code>MessageDispatcherImpl</code> decodes and dispatches incoming
 * messages using {@link MessageProcessingModel} instances and encodes
 * and sends outgoing messages using an appropriate {@link TransportMapping}
 * instances.
 * <p>
 * The method {@link #processMessage} will be called from a
 * <code>TransportMapping</code> whereas the method {@link #sendPdu} will be
 * called by the application.
 * </p>
 * @see Snmp
 * @see TransportMapping
 * @see MessageProcessingModel
 * @see MPv1
 * @see MPv2c
 * @see MPv3
 * @author Frank Fock
 * @version 2.0
 */

public class MessageDispatcherImpl implements MessageDispatcher {

private static final LogAdapter logger =
    LogFactory.getLogger(MessageDispatcherImpl.class);

private List<MessageProcessingModel> mpm = new ArrayList<MessageProcessingModel>(3);
private Map<Class<? extends Address>, List<TransportMapping>> transportMappings =
    new Hashtable<Class<? extends Address>, List<TransportMapping>>(5);
private int nextTransactionID = new Random().nextInt(Integer.MAX_VALUE-2)+1;
private transient List<CommandResponder> commandResponderListeners;
private transient List<CounterListener> counterListeners;
private transient List<AuthenticationFailureListener> authenticationFailureListeners;

private boolean checkOutgoingMsg = true;

/**
 * Default constructor creates a message dispatcher without any associated
 * message processing models.
 */
public MessageDispatcherImpl() {
}

/**
 * Adds a message processing model to this message dispatcher. If a message
 * processing model with the same ID as the supplied one already exists it
 * will not be changed. Please call {@link #removeMessageProcessingModel}
 * before to replace a message processing model.
 * @param model
 * a MessageProcessingModel instance.
 */
public synchronized void addMessageProcessingModel(MessageProcessingModel model) {
    while (mpm.size() <= model.getID()) {
        mpm.add(null);
    }
    if (mpm.get(model.getID()) == null) {
        mpm.set(model.getID(), model);
    }
}

/**
 * Removes a message processing model from this message dispatcher.
 * @param model
 * a previously added MessageProcessingModel instance.
 */
public synchronized void removeMessageProcessingModel(MessageProcessingModel model) {
    mpm.set(model.getID(), null);
}

/**
 * Adds a transport mapping. When an outgoing message is processed where
 * no specific transport mapping has been specified, then the
 * message dispatcher will use the transport mapping
 * that supports the supplied address class of the target.
 * @param transport
 * a TransportMapping instance. If there is already another transport
* mapping registered that supports the same address class, then
* `<code>transport</code>` will be registered but not used for messages
* without specific transport mapping.
*/
@ SuppressWarnings("unchecked")
public synchronized void addTransportMapping(TransportMapping transport) {
  List<TransportMapping> transports = transportMappings.get(transport.getSupportedAddressClass());
  if (transports == null) {
    transports = new LinkedList<TransportMapping>();
    transportMappings.put(transport.getSupportedAddressClass(), transports);
  }
  transports.add(transport);
}

/**
* Removes a transport mapping.
* @param transport
*   a previously added TransportMapping instance.
* @return
*   the supplied TransportMapping if it has been successfully removed,
*   `<code>null</code>` otherwise.
*/
public TransportMapping removeTransportMapping(TransportMapping transport) {
  List<? extends TransportMapping> tm = transportMappings.remove(transport.getSupportedAddressClass());
  if (tm != null) {
    if (tm.remove(transport)) {
      return transport;
    }
  }
  return null;
}

/**
* Gets a collection of all registered transport mappings.
* @return
*   a Collection instance.
*/
public Collection<TransportMapping> getTransportMappings() {
  ArrayList<TransportMapping> l = new ArrayList<TransportMapping>(transportMappings.size());
  synchronized (transportMappings) {
    for (Iterator<List<TransportMapping>> it = transportMappings.values().iterator(); it.hasNext();) {
      List<? extends TransportMapping> tm = it.next();
      l.addAll(tm);
    }
  }
  return l;
public synchronized int getNextRequestID() {
    int nextID = nextTransactionID++;
    if (nextID <= 0) {
        nextID = 1;
        nextTransactionID = 2;
    }
    return nextID;
}

protected PduHandle createPduHandle() {
    return new PduHandle(getNextRequestID());
}

/**
 * Sends a message using the <code>TransportMapping</code> that has been
 * assigned for the supplied address type.
 *
 * @param transport
 *    the transport mapping to be used to send the message.
 * @param destAddress
 *    the transport address where to send the message. The
 *    <code>destAddress</code> must be compatible with the supplied
 *    <code>transport</code>.
 * @param message
 *    the SNMP message to send.
 * @throws IOException
 *    if an I/O error occurred while sending the message or if there is
 *    no transport mapping defined for the supplied address type.
 */
@SuppressWarnings("unchecked")
protected void sendMessage(TransportMapping transport, Address destAddress, byte[] message,
        TransportStateReference tmStateReference) throws IOException {
    if (transport != null) {
        if (destAddress instanceof GenericAddress) {
            transport.sendMessage(((GenericAddress)destAddress).getAddress(), message, tmStateReference);
        } else {
            transport.sendMessage(destAddress, message, tmStateReference);
        }
    } else {
        String txt = "No transport mapping for address class: " +
            "null."
        throw new IOException(txt);
    }
}
protected void dispatchMessage(TransportMapping sourceTransport,
        MessageProcessingModel mp,
        Address incomingAddress,
        BERInputStream wholeMessage,
        tmStateReference tmStateReference)
        throws IOException
    {
        if (null == mp) {
            logger.error("Protocol Mapper is null.");
            throw new IOException("Protocol Mapper is null.");
        }

        TransportMapping transportMapping = sourceTransport;
        // Code to determine the correct transport mapping...

        // Code to decode and dispatch the SNMP message...
    }

    public TransportMapping getTransport(Address destAddress) {
        Class addressClass = destAddress.getClass();
        do {
            List<TransportMapping> l = transportMappings.get(addressClass);
            if ((l != null) && (l.size() > 0)) {
                return l.get(0);
            }
        }
        while ((addressClass = addressClass.getSuperclass()) != null);
        return null;
    }

    /**
     * Actually decodes and dispatches an incoming SNMP message using the supplied
     * message processing model.
     *
     * @param sourceTransport
     *   a \<code\>TransportMapping</code\> that matches the incomingAddress type.
     * @param mp
     *   a \<code\>MessageProcessingModel</code\> to process the message.
     * @param incomingAddress
     *   the \<code\>Address</code\> from the entity that sent this message.
     * @param wholeMessage
     *   the \<code\>BERInputStream</code\> containing the SNMP message.
     * @param tmStateReference
     *   the transport model state reference as defined by RFC 5590.
     * @throws IOException
     *   if the message cannot be decoded.
     */
    protected void dispatchMessage(TransportMapping sourceTransport,
            MessageProcessingModel mp,
            Address incomingAddress,
            BERInputStream wholeMessage,
            tmStateReference tmStateReference) throws IOException
    {
        if (null == mp) {
            logger.error("Protocol Mapper is null.");
            throw new IOException("Protocol Mapper is null.");
        }

        TransportMapping transportMapping = sourceTransport;
        // Code to determine the correct transport mapping...

        // Code to decode and dispatch the SNMP message...
    }

    public TransportMapping getTransport(Address destAddress) {
        Class addressClass = destAddress.getClass();
        do {
            List<TransportMapping> l = transportMappings.get(addressClass);
            if ((l != null) && (l.size() > 0)) {
                return l.get(0);
            }
        }
        while ((addressClass = addressClass.getSuperclass()) != null);
        return null;
    }
Address incomingAddress,
BERInputStream wholeMessage,
TransportStateReference tmStateReference) throws IOException {
MutablePDU pdu = new MutablePDU();
Integer32 messageProcessingModel = new Integer32();
Integer32 securityModel = new Integer32();
OctetString securityName = new OctetString();
Integer32 securityLevel = new Integer32();

PduHandle handle = createPduHandle();

Integer32 maxSizeRespPDU =
    new Integer32(sourceTransport.getMaxInboundMessageSize());
StatusInformation statusInfo = new StatusInformation();
MutableStateReference mutableStateReference = new MutableStateReference();
// add the transport mapping to the state reference to allow the MP to
// return REPORTs on the same interface/port the message had been received.
StateReference stateReference = new StateReference();
stateReference.setTransportMapping(sourceTransport);
stateReference setAddress(incomingAddress);
mutableStateReference setStateReference(stateReference);

int status = mp.prepareDataElements(this, incomingAddress, wholeMessage,
    tmStateReference,
    messageProcessingModel, securityModel,
    securityName, securityLevel, pdu,
    handle, maxSizeRespPDU, statusInfo,
    mutableStateReference);
if (mutableStateReference.getStateReference() != null) {
    // make sure transport mapping is set
    mutableStateReference.
    getStateReference().setTransportMapping(sourceTransport);
}
if (status == SnmpConstants.SNMP_ERROR_SUCCESS) {
    // dispatch it
    CommandResponderEvent e =
        new CommandResponderEvent(this,
            sourceTransport,
            incomingAddress,
            messageProcessingModel.getValue(),
            securityModel.getValue(),
            securityName.getValue(),
            securityLevel.getValue(),
            handle,
            pdu.getPdu(),
            maxSizeRespPDU.getValue(),
            mutableStateReference.getStateReference());
    fireProcessPdu(e);
else {
    switch (status) {
    case SnmpConstants.SNMP_MP_UNSUPPORTED_SECURITY_MODEL:
    case SnmpConstants.SNMPv3_USM_AUTHENTICATION_FAILURE:
    case SnmpConstants.SNMPv3_USM_UNSUPPORTED_SECURITY_LEVEL:
    case SnmpConstants.SNMPv3_USM_UNKNOWN_SECURITY_NAME:
    case SnmpConstants.SNMPv3_USM_AUTHENTICATION_ERROR:
    case SnmpConstants.SNMPv3_USM_NOT_IN_TIME_WINDOW:
    case SnmpConstants.SNMPv3_USM_UNSUPPORTED_AUTHPROTOCOL:
    case SnmpConstants.SNMPv3_USM_UNKNOWN_ENGINEID:
    case SnmpConstants.SNMP_MP_WRONG_USER_NAME:
    case SnmpConstants.SNMPv3_TSM_INADEQUATE_SECURITY_LEVELS:
    case SnmpConstants.SNMP_MP_USM_ERROR: {
        AuthenticationFailureEvent event =
            new AuthenticationFailureEvent(this, incomingAddress, 
                sourceTransport, status, 
                wholeMessage);
        fireAuthenticationFailure(event);
        break;
    }
    }
    logger.warn("statusInfo="+statusInfo+", status="+status);
}
}

public void processMessage(TransportMapping sourceTransport, 
    Address incomingAddress, 
    ByteBuffer wholeMessage, 
    TransportStateReference tmStateReference) {
    processMessage(sourceTransport, incomingAddress, 
        new BERInputStream(wholeMessage), 
        tmStateReference);
}

public void processMessage(TransportMapping sourceTransport, 
    Address incomingAddress, 
    BERInputStream wholeMessage, 
    TransportStateReference tmStateReference) {
    fireIncrementCounter(new CounterEvent(this, SnmpConstants.snmpInPkts));
    if (!wholeMessage.markSupported()) {
        String txt = "Message stream must support marks";
        logger.error(txt);
        throw new IllegalArgumentException(txt);
    }
    try {
        wholeMessage.mark(16);
        BER.MutableByte type = new BER.MutableByte();
// decode header but do not check length here, because we do only decode
// the first 16 bytes.
BER.decodeHeader(wholeMessage, type, false);
if (type.getValue() != BER.SEQUENCE) {
    logger.error("ASN.1 parse error (message is not a sequence)");
    CounterEvent event = new CounterEvent(this,
            SnmpConstants.snmpInASNParseErrs);
    fireIncrementCounter(event);
}
Integer32 version = new Integer32();
version.decodeBER(wholeMessage);
MessageProcessingModel mp = getMessageProcessingModel(version.getValue());
if (mp == null) {
    logger.warn("SNMP version "+version+" is not supported");
    CounterEvent event = new CounterEvent(this,
            SnmpConstants.snmpInBadVersions);
    fireIncrementCounter(event);
} else {
    // reset it
    wholeMessage.reset();
    // dispatch it
    dispatchMessage(sourceTransport, mp, incomingAddress, wholeMessage, tmStateReference);
}
} catch (IOException iox) {
    iox.printStackTrace();
    logger.warn(iox);
    CounterEvent event = new CounterEvent(this, SnmpConstants.snmpInvalidMsgs);
    fireIncrementCounter(event);
} catch (Exception ex) {
    logger.error(ex);
    if (logger.isDebugEnabled()) {
        ex.printStackTrace();
    }
    if (SNMP4JSettings.isForwardRuntimeExceptions()) {
        throw new RuntimeException(ex);
    }
} catch (OutOfMemoryError oex) {
    logger.error(oex);
    if (SNMP4JSettings.isForwardRuntimeExceptions()) {
        throw oex;
    }
}
public PduHandle sendPdu(Target target,
    PDU pdu,
    boolean expectResponse) throws MessageException {
return sendPdu(null, target, pdu, expectResponse);
}

public PduHandle sendPdu(TransportMapping transport,
    Target target,
    PDU pdu,
    boolean expectResponse,
    PduHandleCallback<PDU> pduHandleCallback)
throws MessageException
{
    int messageProcessingModel = target.getVersion();
    Address transportAddress = target.getAddress();
    int securityModel = target.getSecurityModel();
    int securityLevel = target.getSecurityLevel();
    try {
        byte[] securityName = target.getSecurityName().getValue();
        MessageProcessingModel mp =
            getMessageProcessingModel(messageProcessingModel);
        if (mp == null) {
            throw new MessageException("Unsupported message processing model: ",
                messageProcessingModel, SnmpConstants.SNMP_MD_UNSUPPORTED_MP_MODEL);
        }
        if (!mp.isProtocolVersionSupported(messageProcessingModel)) {
            throw new MessageException("SNMP version "+messageProcessingModel+
                " is not supported "+
                "by message processing model "+
                messageProcessingModel,
                SnmpConstants.SNMP_MD_UNSUPPORTED_SNMP_VERSION);
        }
    } catch (UnsupportedAddressClassException e) {
        throw new UnsupportedAddressClassException(
            "Unsupported address class (transport mapping): "+
            transportAddress.getClass().getName(),
            transportAddress.getClass());
    }
else if (pdu.isConfirmedPdu()) {
    checkListening4ConfirmedPDU(pdu, target.getAddress(), transport);
}

// check if contextEngineID discovery is needed
// check PDU type
checkOutgoingMsg(transportAddress, messageProcessingModel, pdu);

// if request ID is == 0 then create one here, otherwise use the request ID because it may be a resent request.
PduHandle pduHandle;
Integer32 reqID = pdu.getRequestID();
if ((reqID == null) || (reqID.getValue() == 0) && (pdu.getType() != PDU.RESPONSE)) {
pduHandle = createPduHandle();
} else {
pduHandle = new PduHandle(pdu.getRequestID().getValue());
}

// assign request ID
if (pdu.getType() != PDU.V1TRAP) {
pdu.setRequestID(new Integer32(pduHandle.getTransactionID()));
}

// parameters to receive
GenericAddress destAddress = new GenericAddress();
CertifiedIdentity certifiedIdentity = null;
if (target instanceof CertifiedIdentity) {
certifiedIdentity = (CertifiedIdentity) target;
}
TransportStateReference tmStateReference =
    new TransportStateReference(transport,
        transportAddress,
        new OctetString(securityName),
        SecurityLevel.get(securityLevel),
        SecurityLevel.undefined,
        false, null, certifiedIdentity);
configureAuthoritativeEngineID(target, mp);
BEROutputStream outgoingMessage = new BEROutputStream();
int status = mp.prepareOutgoingMessage(transportAddress,
    transport.getMaxInboundMessageSize(),
    messageProcessingModel,
    securityModel,
    securityName,
    securityLevel,
    pdu,
    expectResponse,
    pduHandle,
    destAddress,
if (status == SnmpConstants.SNMP_ERROR_SUCCESS) {
    // inform callback about PDU new handle
    if (pduHandleCallback != null) {
        pduHandleCallback.pduHandleAssigned(pduHandle, pdu);
    }
    byte[] messageBytes = outgoingMessage.getBuffer().array();
    sendMessage(transport, transportAddress, messageBytes, tmStateReference);
} else {
    throw new MessageException("Message processing model "+
            mp.getID()+" returned error: "+
            SnmpConstants.mpErrorModel(status), status);
}
return pduHandle;
}
catch (IndexOutOfBoundsException iobex) {
    throw new MessageException("Unsupported message processing model: "+
            messageProcessingModel, SnmpConstants.SNMP_MD_UNSUPPORTED_MP_MODEL,
            iobex);
}
catch (MessageException mex) {
    if (logger.isDebugEnabled()) {
        mex.printStackTrace();
    }
    throw mex;
}
catch (IOException iox) {
    if (logger.isDebugEnabled()) {
        iox.printStackTrace();
    }
    throw new MessageException(iox.getMessage(), SnmpConstants.SNMP_MD_ERROR, iox);
}

protected void configureAuthoritativeEngineID(Target target, MessageProcessingModel mp) {
    if (((target instanceof UserTarget) && (mp instanceof MPv3)) {
        UserTarget userTarget = (UserTarget)target;
        if (((userTarget.getAuthoritativeEngineID() != null) &&
        (userTarget.getAuthoritativeEngineID().length > 0)) {
            ((MPv3)mp).addEngineID(target.getAddress(), new OctetString(userTarget.getAuthoritativeEngineID()));
        }
    }
}

private static void checkListening4ConfirmedPDU(PDU pdu, Address target,
        TransportMapping transport) {
if ((transport != null) && (!transport.isListening())) {
    logger.warn("Sending confirmed PDU "+pdu+" to target "+target+
            " although transport mapping "+transport+
            " is not listening for a response");
}

/**
 * Checks outgoing messages for consistency between PDU and target used.
 * @param transportAddress
 *    the target address.
 * @param messageProcessingModel
 *    the message processing model to be used.
 * @param pdu
 *    the PDU to be sent.
 * @throws MessageException
 *    if unrecoverable inconsistencies have been detected.
 */
protected void checkOutgoingMsg(Address transportAddress,
                                int messageProcessingModel, PDU pdu)
    throws MessageException
{
    if (checkOutgoingMsg) {
        if (messageProcessingModel == MessageProcessingModel.MPv1 || SNMP4JSettings.isNoGetBulk()) {
            if (pdu.getType() == PDU.GETBULK) {
                if (messageProcessingModel == MessageProcessingModel.MPv1) {
                    logger.warn("Converting GETBULK PDU to GETNEXT for SNMPv1 target: " + transportAddress);
                }
                else {
                    logger.info("Converting GETBULK PDU to GETNEXT for target: " + transportAddress);
                }
                pdu.setType(PDU.GETNEXT);
                if (!(pdu instanceof PDUv1)) {
                    pdu.setMaxRepetitions(1);
                    pdu.setNonRepeaters(0);
                }
            }
        }
    }
}

public int returnResponsePdu(int messageProcessingModel,
                            int securityModel,
                            byte[] securityName,
                            int securityLevel,
                            PDU pdu,
                            int maxSizeResponseScopedPDU,
                            StateReference stateReference,
throws MessageException
{
    try {
        MessageProcessingModel mp =
            getMessageProcessingModel(messageProcessingModel);
        if (mp == null) {
            throw new MessageException("Unsupported message processing model: 
            + messageProcessingModel, SnmpConstants.SNMP_MD_UNSUPPORTED_MP_MODEL);
        }
        TransportMapping transport = stateReference.getTransportMapping();
        if (transport == null) {
            transport = getTransport(stateReference.getAddress());
        }
        if (transport == null) {
            throw new MessageException("Unsupported address class (transport mapping): "+
            stateReference.getAddress().getClass().getName(),
            SnmpConstants.SNMP_MD_UNSUPPORTED_ADDRESS_CLASS);
        }
        BEROutputStream outgoingMessage = new BEROutputStream();
        int status = mp.prepareResponseMessage(messageProcessingModel,
            transport.getMaxInboundMessageSize(),
            securityModel,
            securityName, securityLevel, pdu,
            maxSizeResponseScopedPDU,
            stateReference,
            statusInformation,
            outgoingMessage);
        if (status == SnmpConstants.SNMP_MP_OK) {
            TransportStateReference tmStateReference = null;
            if (stateReference.getSecurityStateReference() instanceof TsmSecurityStateReference) {
                tmStateReference = ((TsmSecurityStateReference)
                    stateReference.getSecurityStateReference()).getTmStateReference();
            }
            sendMessage(transport,
                stateReference.getAddress(),
                outgoingMessage.getOutputStream().array(),
                tmStateReference);
        }
        return status;
    }
    catch (ArrayIndexOutOfBoundsException aex) {
        throw new MessageException("Unsupported message processing model: "+
            messageProcessingModel, SnmpConstants.SNMP_MD_UNSUPPORTED_MP_MODEL,
            aex);
    }
    catch (IOException iox) {
        throw new MessageException(iox.getMessage(), SnmpConstants.SNMP_MD_ERROR, iox);
    }
}
public void releaseStateReference(int messageProcessingModel,
   PduHandle pduHandle) {
   MessageProcessingModel mp = getMessageProcessingModel(messageProcessingModel);
   if (mp == null) {
      throw new IllegalArgumentException("Unsupported message processing model: "+
               messageProcessingModel);
   }
   mp.releaseStateReference(pduHandle);
}

public synchronized void removeCommandResponder(CommandResponder l) {
   if (commandResponderListeners != null && commandResponderListeners.contains(l)) {
      commandResponderListeners.remove(l);
   }
}

public synchronized void addCommandResponder(CommandResponder l) {
   if (commandResponderListeners == null) {
      commandResponderListeners = new Vector<CommandResponder>(2);
   }
   if (!commandResponderListeners.contains(l)) {
      commandResponderListeners.add(l);
   }
}

/**
 * Fires a <code>CommandResponderEvent</code>. Listeners are called
 * in order of their registration until a listener has processed the
 * PDU successfully.
 * @param e
 *   a <code>CommandResponderEvent</code> event.
 */
protected void fireProcessPdu(CommandResponderEvent e) {
   if (commandResponderListeners != null) {
      List<CommandResponder> listeners = commandResponderListeners;
      for (CommandResponder listener : listeners) {
         listener.processPdu(e);
         // if event is marked as processed the event is not forwarded to
         // remaining listeners
         if (e.isProcessed()) {
            return;
         }
      }
   }
}
/**
 * Gets the <code>MessageProcessingModel</code> for the supplied message
 * processing model ID.
 *
 * @param messageProcessingModel
 *    a message processing model ID
 *    (see { @link MessageProcessingModel#getId() }).
 * @return
 *    a MessageProcessingModel instance if the ID is known, otherwise
 *    <code>null</code>
 */
public MessageProcessingModel getMessageProcessingModel(int messageProcessingModel) {
    try {
        return mpm.get(messageProcessingModel);
    }
    catch (IndexOutOfBoundsException iobex) {
        return null;
    }
}

/**
 * Removes a <code>CounterListener</code>.
 * @param counterListener
 *    a previously added <code>CounterListener</code>.
 */
public synchronized void removeCounterListener(CounterListener counterListener) {
    if (counterListeners != null && counterListeners.contains(counterListener)) {
        counterListeners.remove(counterListener);
    }
}

/**
 * Adds a <code>CounterListener</code>.
 * @param counterListener
 *    a <code>CounterListener</code> that will be informed when a counter
 *    needs to incremented.
 */
public synchronized void addCounterListener(CounterListener counterListener) {
    if (counterListeners == null) {
        counterListeners = new Vector<CounterListener>(2);
    }
    if (!counterListeners.contains(counterListener)) {
        counterListeners.add(counterListener);
    }
}
* Fires a counter incrementation event.
* @param event
* the `<code>CounterEvent</code>` containing the OID of the counter
* that needs to be incremented.
*/
protected void fireIncrementCounter(CounterEvent event) {
    if (counterListeners != null) {
        for (CounterListener cl : counterListeners) {
            cl.incrementCounter(event);
        }
    }
}

/**
 * Enables or disables the consistency checks for outgoing messages.
 * If the checks are enabled, then GETBULK messages sent to SNMPv1
 * targets will be converted to GETNEXT messages.
 * `<p>
 * In general, if an automatically conversion is not possible, an
 * error is thrown when such a message is to be sent.
 * `<p>
 * The default is consistency checks enabled.
 *
 * @param checkOutgoingMsg
 * if `<code>true</code>` outgoing messages are checked for consistency.
 * Currently, only the PDU type will be checked against the used SNMP
 * version. If `<code>false</code>`, no checks will be performed.
 */
public void setCheckOutgoingMsg(boolean checkOutgoingMsg) {
    this.checkOutgoingMsg = checkOutgoingMsg;
}

/**
 * Returns whether consistency checks for outgoing messages are activated.
 * @return
 * if `<code>true</code>` outgoing messages are checked for consistency.
 * If `<code>false</code>`, no checks are performed.
 */
public boolean isCheckOutgoingMsg() {
    return checkOutgoingMsg;
}

/**
 * Adds a listener for authentication failure events caused by unauthenticated
 * incoming messages.
 * @param l
 * the `<code>AuthenticationFailureListener</code>` to add.
 * @since 1.5
public synchronized void addAuthenticationFailureListener(
    AuthenticationFailureListener l) {
    if (authenticationFailureListeners == null) {
        authenticationFailureListeners = new Vector<AuthenticationFailureListener>(2);
    }
    if (!authenticationFailureListeners.contains(l)) {
        authenticationFailureListeners.add(l);
    }
}

/**
 * Removes an <code>AuthenticationFailureListener</code>.
 * @param l
 *   the <code>AuthenticationFailureListener</code> to remove.
 */
public synchronized void removeAuthenticationFailureListener(
    AuthenticationFailureListener l) {
    if (authenticationFailureListeners != null &&
        authenticationFailureListeners.contains(l)) {
        authenticationFailureListeners.remove(l);
    }
}

/**
 * Fires an <code>AuthenticationFailureEvent</code> to all registered
 * listeners.
 * @param event
 *   the event to fire.
 */
protected void fireAuthenticationFailure(AuthenticationFailureEvent event) {
    if (authenticationFailureListeners != null) {
        List<AuthenticationFailureListener> listeners = authenticationFailureListeners;
        for (AuthenticationFailureListener listener : listeners) {
            listener.authenticationFailure(event);
        }
    }
}

public PduHandle sendPdu(TransportMapping transportMapping,
    Target target,
    PDU pdu,
    boolean expectResponse) throws MessageException {
    return sendPdu(transportMapping, target, pdu, expectResponse, null);
}
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1.918 sysstat 10.1.5

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The of the start-stop-daemon

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* 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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1.923 tcl 8.5.13 :8.el7

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jUDnyzmosOudM/iiFv6YfyR820aNvNNI+AdtgWYRPVHocVNOrzcmu7IAO8hIU//
v8BeBE0hdjeVmOQYRQfXgt3J2q0b8x8Q5a/LCLVLh8k6DFGg8AfE9bLDQWhi1JiXC
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1.926 tcpdump 4.5.1 :3.el7

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1.930 tcsh 6.18.01 :13.el7
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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 ******************/
/*
* POSIX	This system supports IEEE Std 1003.1-1988 (POSIX).
*/
#undef POSIX

/*
* POSIXJOBS	This 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
 * a tty that deals correctly
 */
#define BSDJOBS

/ *
 * BSDTIMES You have BSD-style process time stuff (like rusage)
 * This may or may not be true. For example, Apple Unix
 *(OREO) has BSDJOBS but not BSDTIMES.
 */
#define BSDTIMES

/ *
 * BSDLIMIT You have BSD-style resource limit stuff (getrlimit/setrlimit)
 */
#define BSDLIMIT

/ *
 * TERMIO You have struct termio instead of struct sgttyb.
 * This is usually the case for SYSV systems, where
 * BSD uses sgttyb. POSIX systems should define this
 * anyway, even though they use struct termios.
 */
#undef TERMIO

/ *
 * SYSVREL Your machine is SYSV based (HPUX, A/UX)
 * NOTE: don't do this if you are on a Pyramid -- 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 */

1.931 teamd-1.25-4.el7.x86_64 1.25 :4.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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<one line to give the program's name and a brief idea of what it does.>
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    <signature of Ty Coon>, 1 April 1989
    Ty Coon, President of Vice

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1.939 traceroute 2.0.22 :2.el7
1.939.1 Available under license :

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1.954 unixODBC 2.3.1 :26th-November-2011

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

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

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

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

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

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

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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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PSQLODBC.DLL - A library to talk to the PostgreSQL DBMS using ODBC.

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There are currently two explicit copyrights on portions of UnZip code (at least, of which Info-ZIP is aware):
Jim Luther's Mac OS File Manager interface code; and Christopher Evans' MacBinaryIII coding code (for the MacOS port). These copyrights are discussed in more detail below.

All remaining code is now (starting with UnZip version 5.41) covered
by the new Info-ZIP license. For details, please read the accompanying file LICENSE. The terms and conditions in this license supersede the copyright conditions of the contributions by Igor Mandrichenko (vms/vms.c), Greg Roelofs (zipinfo.c, new version of unshrink.c), Mike White (Windows DLL code in "windll/*"), Steve P. Miller (Pocket UnZip GUI "wince/*"), and Mark Adler (inflate/explode decompression core routines, previously put into the public domain). All these Info-ZIP contributors (or "primary" authors) have permitted us to replace their copyright notes by the Info-ZIP License.

Frequently Asked Questions regarding (re)distribution of Zip and UnZip are near the end of this file.

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The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed.

The drop of the reduce method should only affect some test archives, reducing was never used in any publically distributed Zip program. For pathologic cases where support for reduced archive entries is needed, the unreduce code copyrighted by Samuel H. Smith is available as a separate distribution (the restricted copyright of this code is cited below in the "historical" section).

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* MoreFiles

* A collection of File Manager and related routines

*
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* Basic encoding and decoding of Macintosh files to the
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* ----------------------------------------------------------------------
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Regarding the first stipulation, Mr. Smith was tracked down in southern
California some years back [Samuel H. Smith, The Tool Shop; as of mid-
May 1994, (213) 851-9969 (voice), (213) 887-2127(?) (subscription BBS),
71150.2731@compuserve.com]:

"He says that he thought that whoever contacted him understood that
he has no objection to the Info-ZIP group's inclusion of his code.
His primary concern is that it remain freely distributable, he said."

Despite the fact that our "normal" code has been entirely rewritten
and by default no longer contains any of Mr. Smith's code, Info-ZIP
remains indebted and grateful to him. We hope he finds our contribu-
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The remaining code was written by many people associated with the
Info-ZIP group, with large contributions from (but not limited to):
Greg Roelofs (overall program logic, ZipInfo, unshrink, filename
mapping/portability, etc.), Mark Adler (inflate, explode, funzip),
Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine
Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows
DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and
others. See the file CONTRIBS in the source distribution for a much
more complete list of contributors.
The decompression core code for the deflate method (inflate.[ch],
explode.c) was originally written by Mark Adler who submitted it
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1.957 uri-template 0.9 :0.9

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

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

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

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

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

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

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1.963 util-linux 2.23.2 :33.el7

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Initialize empty image
f1c9645d9e14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df055067c18f2c9 bsd.img

---layout----------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device  Boot  Start  End   Blocks   Id  System
----------  ------  ------  ------  -------  ---  ------
Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout----------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device  Boot  Start  End   Blocks  Id  System
__ts_dev__1 2048   4095    1024    83  Linux

Create 2st primary partition
1beb87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8df51a88a045db233418dd73fbe bsd.img

---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device  Boot  Start  End   Blocks  Id  System
__ts_dev__1 2048   4095    1024    83  Linux
__ts_dev__2 4096  20479    8192   a5  FreeBSD

Create default BSD
2e1cee529cb59c9341afe0443f196a1 bsd.img

---layout--------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
#  start  end   size  fstype  [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):
h5c121c2091b2ff26b880551feac7112 bsd.img

---layout--------

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
#       start       end      size     fstype   [fsize bsize   cpg]
a:     4096      6144      2049     4.2BSD        0     0     0
c:     4096     20479     16384     unused        0     0
d:        0     16064     16065     unused        0     0

BSD disklabel command (m for help):
Command (m for help):
---

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
0  unused           5  4.1BSD           9  4.4LFS           d  boot
1  swap             6  Eighth Edition   a  unknown          e  ADOS
2  Version 6        7  4.2BSD           b  HPFS             f  HFS
3  Version 7        8  MS-DOS           c  ISO-9660        10  AdvFS
4  System V

BSD disklabel command (m for help):
size: 8388608, sector size: 512, PT: dos, offset: 446, id=0x8f8378c0
---
#1:         32       7648  0x83
#2:       7680       8704  0xa5
#5:       7936       4864  0x7 (freebsd)
#6:      12544       3584  0x7 (freebsd)

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1.964 util-linux 2.23.2 :33.el7

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Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df055067c18f2cf9 bsd.img

---layout----------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot Start End Blocks Id System
-------------------
Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout----------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot  Start  End   Blocks  Id  System
__ts_dev__.1  2048  4095   1024   83  Linux

Create 2st primary partition
1beb87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8df51a88a045db233418dd73fbc bsd.img

---layout---------
__ts_dev__.: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot  Start  End   Blocks  Id  System
__ts_dev__.1  2048  4095   1024   83  Linux
__ts_dev__.2  4096  20479  8192   a5  FreeBSD

Create default BSD
2e1cee529cb59c9341afe0443f196a1 bsd.img

---layout---------
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
#  start   end    size    fstype  [fsize bsize cpg]
c:  4096  20479   16384   unused  0  0
d:   0  16064   16065   unused  0  0

BSD disklabel command (m for help):
Command (m for help):

-------------------
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 bs cpg]
a:  0     4096  2049  4.2BSD  0  0  0
c:  4096  20479 16384  unused 0  0  0
d:  0   16064  16065  unused 0  0  0

BSD disklabel command (m for help):
Command (m for help):

Changes will remain in memory only, until you decide to write them. Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
0  unused  5  4.1BSD  9  4.4LFS  d boot
1  swap  6  Eighth Edition a unknown e ADOS
2  Version 6 7  4.2BSD b HPFS f HFS
3  Version 7 8  MS-DOS c ISO-9660 10 AdvFS
4  System V

BSD disklabel command (m for help):
size: 8388608, sector size: 512, PT: dos, offset: 446, id=0x8f8378c0
---
#1: 32 7648 0x83
#2: 7680 8704 0xa5
#5: 7936 4864 0x7 (freebsd)
#6: 12544 3584 0x7 (freebsd)

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*uganda.txt*    For Vim version 7.4. Last change: 2013 Jul 06

VIM REFERENCE MANUAL    by Bram Moolenaar

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SUMMARY
*iccf* *ICCF*
Vim is Charityware. You can use and copy it as much as you like, but you are
couraged to make a donation for needy children in Uganda. Please see [kcc]
below or visit the ICCF web site, available at these URLs:

http://iccf-holland.org/
http://www.vim.org/iccf/
http://www.iccf.nl/

You can also sponsor the development of Vim. Vim sponsors can vote for
features. See [sponsor]. The money goes to Uganda anyway.

The Open Publication License applies to the Vim documentation, see
[manual-copyright].

=== begin of license ===

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1) There are no restrictions on distributing unmodified copies of Vim except
that they must include this license text. You can also distribute
unmodified parts of Vim, likewise unrestricted except that they must include this license text. You are also allowed to include executables that you made from the unmodified Vim sources, plus your own usage examples and Vim scripts.

II) It is allowed to distribute a modified (or extended) version of Vim, including executables and/or source code, when the following four conditions are met:

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2) The modified Vim must be distributed in one of the following five ways:
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   b) If you have received a modified Vim that was distributed as mentioned under a) you are allowed to further distribute it unmodified, as mentioned at I). If you make additional changes the text under a) applies to those changes.

   c) Provide all the changes, including source code, with every copy of the modified Vim you distribute. This may be done in the form of a context diff. You can choose what license to use for new code you add. The changes and their license must not restrict others from making their own changes to the official version of Vim.

   d) When you have a modified Vim which includes changes as mentioned under c), you can distribute it without the source code for the changes if the following three conditions are met:

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   - You keep the changes for at least three years after last distributing the corresponding modified Vim. When the maintainer or someone who you distributed the modified Vim to asks you (in any way) for the changes within this period, you must make them available to him.

   - You clearly describe in the distribution how to contact you. This contact information must remain valid for at least three years.
after last distributing the corresponding modified Vim, or as long as possible.

  e) When the GNU General Public License (GPL) applies to the changes,
you can distribute the modified Vim under the GNU GPL version 2 or any later version.

3) A message must be added, at least in the output of the ":version"
command and in the intro screen, such that the user of the modified Vim
is able to see that it was modified. When distributing as mentioned
under 2)e) adding the message is only required for as far as this does
not conflict with the license used for the changes.

4) The contact information as required under 2)a) and 2)d) must not be
removed or changed, except that the person himself can make
 corrections.

III) If you distribute a modified version of Vim, you are encouraged to use
the Vim license for your changes and make them available to the
maintainer, including the source code. The preferred way to do this is
by e-mail or by uploading the files to a server and e-mailing the URL.
If the number of changes is small (e.g., a modified Makefile) e-mailing a
context diff will do. The e-mail address to be used is
<maintainer@vim.org>

IV) It is not allowed to remove this license from the distribution of the Vim
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license for previous Vim releases instead of the license that they came
with, at your option.

=== end of license ===

Note:

- If you are happy with Vim, please express that by reading the rest of this
file and consider helping needy children in Uganda.

- If you want to support further Vim development consider becoming a
| sponsor|. The money goes to Uganda anyway.

- According to Richard Stallman the Vim license is GNU GPL compatible.
A few minor changes have been made since he checked it, but that should not
make a difference.

- If you link Vim with a library that goes under the GNU GPL, this limits
further distribution to the GNU GPL. Also when you didn't actually change
anything in Vim.

- Once a change is included that goes under the GNU GPL, this forces all
further changes to also be made under the GNU GPL or a compatible license.
- If you distribute a modified version of Vim, you can include your name and
  contact information with the "--with-modified-by" configure argument or the
  MODIFIED_BY define.

==============================================================================
Kibaale Children's Centre* kcc* Kibaale* charity*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the
south of Uganda, near Tanzania, in East Africa. The area is known as Rakai
District. The population is mostly farmers. Although people are poor, there
is enough food. But this district is suffering from AIDS more than any other
part of the world. Some say that it started there. Estimations are that 10
to 30% of the Ugandans are infected with HIV. Because parents die, there are
many orphans. In this district about 60,000 children have lost one or both
parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy
with food, medical care and education. Food and medical care to keep them
healthy now, and education so that they can take care of themselves in the
future. KCC works on a Christian base, but help is given to children of any
religion.

The key to solving the problems in this area is education. This has been
neglected in the past years with president Idi Amin and the following civil
wars. Now that the government is stable again, the children and parents have
to learn how to take care of themselves and how to avoid infections. There is
also help for people who are ill and hungry, but the primary goal is to
prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older
sister is taking care of them. Because these families are big and the income
(if any) is low, a child is lucky if it gets healthy food. Clothes, medical
care and schooling is beyond its reach. To help these needy children, a
sponsorship program was put into place. A child can be financially adopted.
For a few dollars a month KCC sees to it that the child gets indispensable
items, is healthy, goes to school and KCC takes care of anything else that
needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up
needs to be improved. KCC helps schools to improve their teaching methods.
There is a demonstration school at the centre and teacher trainings are given.
Health workers are being trained, hygiene education is carried out and
households are stimulated to build a proper latrine. I helped setting up a
production site for cement slabs. These are used to build a good latrine.
They are sold below cost price.

There is a small clinic at the project, which provides children and their
family with medical help. When needed, transport to a hospital is offered.
Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

*donate*

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps.

When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Further more, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:
Kibaale Children's Centre
p.o. box 1658
Masaka, Uganda, East Africa

Sending money:*iccf-donations*

Check the ICCF web site for the latest information! See [iccf] for the URL.

USA: The methods mentioned below can be used.
Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.

For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.
Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly. Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship. Kibaale Children's Fund c/o Pacific Academy 10238-168 Street 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: https://www.paypal.com/en_US/mrb/pal=XAC62PML3GF8Q The e-mail address for sending the money to is: Bram@iccf-holland.org

For amounts above 400 Euro ($500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:

- Postbank, account 4548774
- Swift code: INGB NL 2A
IBAN: NL95 INGB 0004 5487 74
under the name "stichting ICCF Holland", Lisse
   If that doesn't work:
      Rabobank Lisse, account 3765.05.117
Swift code: RABO NL 2U
under the name "Bram Moolenaar", Lisse
Otherwise, send a check in euro or US dollars to the address
below. Minimal amount: $70 (my bank does not accept smaller
amounts for foreign check, sorry)

Address to send checks to:
Bram Moolenaar
Finsterruetihof 1
8134 Adliswil
Switzerland

This address is expected to be valid for a long time.

vim:tw=78:ts=8:ft=help:norl:

1.969 virt-what 1.13 :8.el7

1.969.1 Available under license :
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Version 2, June 1991

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```

1.971 which 2.20

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XML APIs 1.0.b2

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

1.982 Xml Compatibility extensions for Jackson 1.9.2

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<module name='Beanshell' licenseType='lgpl (dual license, but LGPL may be chosen)' version='2.0b5' projectHome='http://www.beanshell.org' description='Lightweight Scripting for Java. Used mainly by the BSH protocol (uncomplete) (runtime)'>
  <jar name='bsh.jar' />
</module>

<module name='byteman' licenseType='LGPL 2.1' version='2.1.0' projectHome='http://www.jboss.org/byteman'>
  <jar name='byteman.jar' />
</module>

<module name='byteman-bmunit'
<module name='byteman-bmunit'
       licenseType='LGPL 2.1'
       version='2.1.0'
       projectHome='http://www.jboss.org/byteman'>
  <jar name='byteman-bmunit.jar' />
</module>

<module name='byteman-install'
       licenseType='LGPL 2.1'
       version='2.1.0'
       projectHome='http://www.jboss.org/byteman'>
  <jar name='byteman-install.jar' />
</module>

<module name='byteman-submit'
       licenseType='LGPL 2.1'
       version='2.1.0'
       projectHome='http://www.jboss.org/byteman'>
  <jar name='byteman-submit.jar' />
</module>

<module name='creative-commons'
       licenseType='creative-commons'
       version='2.5'
       projectHome='http://creativecommons.org/licenses/by/2.5/
       description='Annotations of JCIP'>
  <jar name='none (part of src tree: org.jgroups.annotations)' />
</module>

<module name='log4j'
       licenseType='apache-2.0'
       version='1.2.14'
       projectHome='http://logging.apache.org/
       description='Java logging framework (runtime)'>
  <jar name='log4j.jar' />
</module>

<module name='serializer'
       licenseType='apache-2.0'
       version='1.6.5'
       projectHome='http://ant.apache.org/
       description='ANT (compile time), needed for generation of test reports'>
  <jar name='serializer.jar' />
</module>

<module name='testng'
       licenseType='apache-2.0'
       version='6.8'
       projectHome='http://www.testng.org'
       description='Used for unit testing'>
  <jar name='testng-6.8.jar' />
</module>

<module name='xalan'
       licenseType='apache-2.0'
       version='2.4.D1'
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JUnit test library (junit-3.8.1.jar)

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Last revised by Reagle $Date: 2005-06-03 18:49:13 -0400 (Fri, 03 Jun 2005) $
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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(e.nextElement());

        System.out.println("Comparing " + args[0] + " with " + args[1] + ":");

        Set set2 = new LinkedHashSet();
        for (Enumeration e = file2.entries(); e.hasMoreElements(); )
            set2.add(e.nextElement());

        System.out.println("Comparing " + args[0] + " with " + args[1] + ":");

        Set diffSet = new LinkedHashSet();
        diffSet.addAll(set1);
        diffSet.removeAll(set2);

        for (Object entry : diffSet)
            System.out.println("Difference found: " + entry);
    }
}
set1.add(((ZipEntry)e.nextElement()).getName());

Set set2 = new LinkedHashSet();
for (Enumeration e = file2.entries(); e.hasMoreElements(); )
    set2.add(((ZipEntry)e.nextElement()).getName());

int errcount = 0;
int filecount = 0;
for (Iterator i = set1.iterator(); i.hasNext(); )
{
    String name = (String)i.next();
    if (!set2.contains(name))
    {
        System.out.println(name + " not found in " + args[1]);
        errcount += 1;
        continue;
    }
    try
    {
        set2.remove(name);
        if (!streamsEqual(file1.getInputStream(file1.getEntry(name)), file2.getInputStream(file2.getEntry(name))))
        {
            System.out.println(name + " does not match");
            errcount += 1;
            continue;
        }
    }
    catch (Exception e)
    {
        System.out.println(name + ": IO Error " + e);
        e.printStackTrace();
        errcount += 1;
        continue;
    }
    filecount += 1;
}
for (Iterator i = set2.iterator(); i.hasNext(); )
{
    String name = (String)i.next();
    System.out.println(name + " not found in " + args[0]);
    errcount += 1;
}
System.out.println(filecount + " entries matched");
if (errcount > 0)
{
    System.out.println(errcount + " entries did not match");
    System.exit(1);
}
System.exit(0);
}

static boolean streamsEqual(InputStream stream1, InputStream stream2) throws IOException {
    byte[] buf1 = new byte[4096];
    byte[] buf2 = new byte[4096];
    boolean done1 = false;
    boolean done2 = false;

    try {
        while (!done1) {
            int off1 = 0;
            int off2 = 0;

            while (off1 < buf1.length) {
                int count = stream1.read(buf1, off1, buf1.length - off1);
                if (count < 0) {
                    done1 = true;
                    break;
                }
                off1 += count;
            }

            while (off2 < buf2.length) {
                int count = stream2.read(buf2, off2, buf2.length - off2);
                if (count < 0) {
                    done2 = true;
                    break;
                }
                off2 += count;
            }

            if (off1 != off2 || done1 != done2)
                return false;

            for (int i = 0; i < off1; i++)
                if (buf1[i] != buf2[i])
                    return false;
        }

        return true;
    }

    finally {
        stream1.close();
        stream2.close();
    }
}
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1.993 XMLTooling 1.4.1

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1.994 xom 1.2.5

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1.1006 zip 3.0 :11.el7
1.1006.1 Available under license:

RECORD
  Carriage_Control carriage_return
  Format stream lf


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**1.1007 zlib 1.2.7 :17.el7**

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