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Q: So any program which uses libstdc++ falls under the GPL?

A: No. The special exception permits use of the library in proprietary applications.

Q: How is that different from the GNU {Lesser,Library} GPL

-- Quoting Jason Merrill from the thread above: --

A: The LGPL requires that users be able to replace the LGPL code with a modified version; this is trivial if the library in question is a C shared library. But there's no way to make that work with C++, where much of the library consists of inline functions and templates, which are expanded inside the code that uses the library. So to allow people to replace the library code, someone using the library would have to distribute their own source, rendering the LGPL equivalent to the GPL.

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SuperH Foreign Function Interface

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#####



```
<<<<<<<<<xilinx-separator>>>>>>>>>
```

- ## Linux Kernel and BSP files

<<<<<<<<<xilinx-separator>>>>>>>>>>>>

e:///V/archives/CQ5\_startup/pdf\_eula/xilinx14\_3/ug763\_tplg.txt[2/25/2013 10:56:47 AM]



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## LWIP 1.4.0

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<<<<<<<<<xilinx-separator>>>>>>>>>
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This file defines macros for a subset of all anomalies that may impact the run-time libraries.

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## Index:

7-zip

abc

# ABC: System for Sequential Synthesis and Verification

# ANTLR

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## ATL Server

AXI BFM (bus functional models)

axi\_protocol\_checker

binutils (added 3/30/2012)

binutils (for MicroBlaze)

binutils (for PowerPC)

blueprint css

## Boost

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Centerpoint  
cJSON  
C math library  
COIN-OR  
Commons I/O  
CUDD: CU Decision Diagram Package  
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abc

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ABC: System for Sequential Synthesis and Verification

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// Modified to compile with MS Visual Studio 6.0 by Alan Mishchenko

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The specification of DOM Level 2's various parts is at:

<http://www.w3.org/TR/2000/REC-DOM-Level-2-Events-20001113/>

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The specification of DOM Level 1's various parts is at:

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The actual classes of The Simple API for CSS (SAC) came from:

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//

```
// See http://www.boost.org/libs/interprocess for documentation.
//
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~~~~~

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```
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////////1////////2////////3////////4////////5////////6////////7////////8  
// basic\_xml\_grammar.hpp

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// See <http://www.boost.org> for updates, documentation, and revision history.

// this module is derived from simplexml.cpp - an example shipped as part of  
// the spirit parser. This example contains the following notice:

/\*=====

---

simplexml.cpp

Spirit V1.3  
URL: <http://spirit.sourceforge.net/>

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## ----- ##
## M4sh Initialization. ##
## ----- ##
```

```
# Be Bourne compatible
```

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# generated automatically by aclocal 1.9.6 -*- Autoconf -*-
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```
/*
* regcomp and regex -- regsub and regerror are elsewhere
```

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 \*\*\* seiwald@vix.com, on 28 August 1993, for use in jam. Regmagic.h  
 \*\*\* was moved into regexp.h, and the include of regexp.h now uses "'s  
 \*\*\* to avoid conflicting with the system regexp.h. Const, bless its  
 \*\*\* soul, was removed so it can compile everywhere. The declaration  
 \*\*\* of strchr() was in conflict on AIX, so it was removed (as it is  
 \*\*\* happily defined in string.h).  
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 \*  
 \* Beware that some of this code is subtly aware of the way operator precedence  
 \* is structured in regular expressions. Serious changes in regular-expression  
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 \*/

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```
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 * find zero points of some function by dichotomy
 *
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*  
* 2009-10-04, guwi17: modified and extended to meet uBLAS' needs  
*/
```



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*
*
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*
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// Author: Pierre Bonami  
// Tepper School of Business  
// Carnegie Mellon University, Pittsburgh, PA 15213

// Name: CglParam.cpp  
// Author: Francois Margot  
// Tepper School of Business  
// Carnegie Mellon University, Pittsburgh, PA 15213  
// Date: 11/24/06  
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```
// name:   Cgl Lifted Simple Generalized Flow Cover Cut Generator
// author: Yan Xu           email: yan.xu@sas.com
//        Jeff Linderorth   email: jtl3@lehigh.edu
//        Martin Savelsberg email: martin.savelsbergh@isye.gatech.edu
// date:   05/01/2003
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/* File      : 'coinmp.h'              */
/* Version   : 1.6                     */
/* Author    : Bjarni Kristjansson, Maximal Software */
/* Copyright (c) 2002-2011             Bjarni Kristjansson */
/* $Id: CoinMP.h 447 2011-11-03 03:58:54Z bjarni $ */
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/* Skeleton parser for Yacc-like parsing with Bison,
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/\* Written by Richard Stallman by simplifying the original so called  
``semantic" parser. \*/  
  
// Name: CoinLpIO.cpp; Support for Lp files  
// Author: Francois Margot  
// Tepper School of Business  
// Carnegie Mellon University, Pittsburgh, PA 15213  
// Date: 12/28/03  
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\* Timo Berthold, ZIB Berlin  
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\* Francois Margot, Carnegie Mellon University  
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\* Author: Jim Ostrowski , University of Waterloo  
\* Pietro Belotti, Lehigh University  
\* Purpose: methods for exploiting symmetry  
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// Authors :  
// Pietro Belotti, Carnegie Mellon University,  
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\* Source: GNU C++  
\* Author: Sonia Cafieri  
// Authors :  
// Giacomo Nannicini, Tepper School of Business, Carnegie Mellon University  
// Date : 07/25/2010



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// Authors :
// Pietro Belotti, Lehigh University
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// Scott Turnberg CMU 2006-05-12  
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/* As a special exception, you may create a larger work that contains
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/* C LALR(1) parser skeleton written by Richard Stallman, by
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/* All symbols defined below should begin with yy or YY, to avoid
   infringing on user name space. This should be done even for local
   variables, as they might otherwise be expanded by user macros.
   There are some unavoidable exceptions within include files to
   define necessary library symbols; they are noted "INFRINGES ON
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/* Identify Bison output. */

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/* $Id: OSdtoa.cpp 4292 2011-09-21 05:47:18Z kmartin $ */
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/\* \$Id: OSMathUtil.cpp 4292 2011-09-21 05:47:18Z kmartin \$ \*/  
/\*\* @file MathUtil.cpp  
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// authors: Tobias Pfender  
// Ambros Gleixner  
// Wei Huang  
// Konrad-Zuse-Zentrum Berlin (Germany)  
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Lower versions are not supported  
-----  
name: OSI Interface for MOSEK  
author: Bo Jensen  
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// name: OSI Interface for Gurobi  
// template: OSI Cplex Interface written by T. Achterberg  
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```
// name:   OSI Interface for CPLEX
// author: Tobias Pfender
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David Megginson, david@megginson.com  
2000-05-05

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The Ant source code is located in the zip files named ant-\*src.zip.

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org/osgi

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osgi/ee.minimum.jar  
osgi/osgi.jar

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org\apache\felix\scr\Component.class  
org\apache\felix\scr\Reference.class  
org\apache\felix\scr\ScrService.class

The Felix SCR API source code can be found in src.zip in the following files:

org\apache\felix\scr\Component.java  
org\apache\felix\scr\Reference.java  
org\apache\felix\scr\ScrService.java

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Java Servlet API 2.5 (servlet-api.jar from Tomcat 6.0.14)

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#####

web-jsptaglibrary\_2\_0.xsd

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-->

<xsd:schema

targetNamespace="http://java.sun.com/xml/ns/j2ee"

xmlns:j2ee="http://java.sun.com/xml/ns/j2ee"

xmlns:xsd="http://www.w3.org/2001/XMLSchema"

xmlns:xml="http://www.w3.org/XML/1998/namespace"

elementFormDefault="qualified"

attributeFormDefault="unqualified"

version="2.0">

<xsd:annotation>

<xsd:documentation>

%W% %G%

</xsd:documentation>

</xsd:annotation>

<xsd:annotation>

<xsd:documentation>

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```
</xsd:documentation>
</xsd:annotation>
```

```
<xsd:annotation>
<xsd:documentation>
<![CDATA[
```

This is the XML Schema for the JSP Taglibrary descriptor. All Taglibrary descriptors must indicate the tag library schema by using the Taglibrary namespace:

<http://java.sun.com/xml/ns/j2ee>

and by indicating the version of the schema by using the version element as shown below:

```
<taglib xmlns="http://java.sun.com/xml/ns/j2ee"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="..."
version="2.0">
...
</taglib>
```

The instance documents may indicate the published version of the schema using xsi:schemaLocation attribute for J2EE namespace with the following location:

[http://java.sun.com/xml/ns/j2ee/web-jsptaglibrary\\_2\\_0.xsd](http://java.sun.com/xml/ns/j2ee/web-jsptaglibrary_2_0.xsd)

```
#####
j2ee_web_services_1_1.xsd
```

```
<?xml version="1.0" encoding="UTF-8"?>
<!--
```

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```
-->
<xsd:schema xmlns="http://www.w3.org/2001/XMLSchema"
  targetNamespace="http://java.sun.com/xml/ns/j2ee"
  xmlns:j2ee="http://java.sun.com/xml/ns/j2ee"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  elementFormDefault="qualified"
  attributeFormDefault="unqualified"
  version="1.1">
<xsd:annotation>
<xsd:documentation>
@(#)j2ee_web_services_1_1.xsds 1.11 02/11/03
</xsd:documentation>
</xsd:annotation>
```

```
<xsd:annotation>
<xsd:documentation>
```

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```
</xsd:documentation>
</xsd:annotation>
```



```
<xsd:annotation>
<xsd:documentation>
```

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```
</xsd:documentation>
</xsd:annotation>
```

```
<xsd:annotation>
<xsd:documentation>
<![CDATA[
```

The webservices element is the root element for the web services deployment descriptor. It specifies the set of web service descriptions that are to be deployed into the J2EE Application Server and the dependencies they have on container resources and services. The deployment descriptor must be named "META-INF/webservices.xml" in the web services' jar file.

Used in: webservices.xml

All webservices deployment descriptors must indicate the webservices schema by using the J2EE namespace:

<http://java.sun.com/xml/ns/j2ee>

and by indicating the version of the schema by using the version element as shown below:

```
<webservices xmlns="http://java.sun.com/xml/ns/j2ee"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://java.sun.com/xml/ns/j2ee
http://www.ibm.com/webservices/xsd/j2ee_web_services_1_1.xsd"
version="1.1">
...
</webservices>
```

The instance documents may indicate the published version of the schema using the xsi:schemaLocation attribute for the J2EE namespace with the following location:

```
#####
j2ee_1_4.xsd
```

```
<?xml version="1.0" encoding="UTF-8"?>
<!--
```

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-->

```
<xsd:schema
targetNamespace="http://java.sun.com/xml/ns/j2ee"
xmlns:j2ee="http://java.sun.com/xml/ns/j2ee"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
elementFormDefault="qualified"
attributeFormDefault="unqualified"
version="1.4">
<xsd:annotation>
<xsd:documentation>
@(#)j2ee_1_4.xsds 1.43 03/09/16
</xsd:documentation>
</xsd:annotation>
```

```
<xsd:annotation>
<xsd:documentation>
```

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```
</xsd:documentation>
</xsd:annotation>
```

```
<xsd:annotation>
<xsd:documentation>
```

The following definitions that appear in the common shareable schema(s) of J2EE deployment descriptors should be interpreted with respect to the context they are included:

Deployment Component may indicate one of the following:

- j2ee application;
- application client;
- web application;
- enterprise bean;
- resource adapter;

Deployment File may indicate one of the following:

- ear file;
- war file;
- jar file;
- rar file;

```
</xsd:documentation>
</xsd:annotation>
```

```
<xsd:import namespace="http://www.w3.org/XML/1998/namespace"
  schemaLocation="http://www.w3.org/2001/xml.xsd"/>
```

```
<xsd:include schemaLocation=
  "http://www.ibm.com/webservices/xsd/j2ee_web_services_client_1_1.xsd"/>
```

```
#####
web-app_2_3.dtd
```

```
<!--
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-->

#####  
web-app\_2\_4.xsd

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-->

<?xml version="1.0" encoding="UTF-8"?>  
<xsd:schema xmlns="http://www.w3.org/2001/XMLSchema" targetNamespace="http://java.sun.com/xml/ns/j2ee" xmlns:j2ee="http://java.sun.com/xml/ns/j2ee" xmlns:xsd="http://www.w3.org/2001/XMLSchema" elementFormDefault="qualified" attributeFormDefault="unqualified" version="2.4">  
<xsd:annotation>  
<xsd:documentation>  
%W% %E%  
</xsd:documentation>  
</xsd:annotation>  
  
<xsd:annotation>  
<xsd:documentation>

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xhtml11.dtd obtained from <http://www.w3.org/TR/xhtml11/DTD/xhtml11.dtd>  
xhtml11-flat.dtd obtained from <http://www.w3.org/TR/xhtml11/DTD/xhtml11-flat.dtd>  
xhtml11-frameset.dtd obtained from <http://www.w3.org/TR/xhtml11/DTD/xhtml11-frameset.dtd>  
xhtml11-strict.dtd obtained from <http://www.w3.org/TR/xhtml11/DTD/xhtml11-strict.dtd>  
xhtml11-transitional.dtd obtained from <http://www.w3.org/TR/xhtml11/DTD/xhtml11-transitional.dtd>  
xhtml-lat1.ent obtained from <http://www.w3.org/TR/xhtml11/DTD/xhtml-lat1.ent>  
xhtml-special.ent obtained from <http://www.w3.org/TR/xhtml11/DTD/xhtml-special.ent>  
xhtml-symbol.ent obtained from <http://www.w3.org/TR/xhtml11/DTD/xhtml-symbol.ent>

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```
org.eclipse.ant.internal.core.ant.InternalAntRunner
org.eclipse.ant.internal.core.ant.InternalProject
```

The binary code for the Ant-Derived Work is located in lib/antsupportlib.jar and the source code is located in lib/antsupportlibsrc.zip.

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org\eclipse\core\internal\registry\ReferenceMap.class

The Jakarta Commons Collections source code can be found in src.zip in the following files:

org\eclipse\core\internal\registry\ReferenceMap.java

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As part of this distribution a fix for UNC file support was applied to `org.apache.jasper.JSPCompilationContext` and is available in the `org.apache.jasper` source bundle.

For more details see [https://bugs.eclipse.org/bugs/show\\_bug.cgi?id=262641](https://bugs.eclipse.org/bugs/show_bug.cgi?id=262641)

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The Commons HttpClient binary code is included with no modifications except postprocessing (pack200 conditioning and signing). The corresponding Commons HttpClient source code is located in `src.zip`.

Commons HttpClient is:

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<p>Original binaries and source are available from the <http://tomcat.apache.org> Apache Tomcat website.

#####

j2ee\_web\_services\_1\_1.xsd

```
<?xml version="1.0" encoding="UTF-8"?>
<xsd:schema xmlns="http://www.w3.org/2001/XMLSchema"
  targetNamespace="http://java.sun.com/xml/ns/j2ee"
  xmlns:j2ee="http://java.sun.com/xml/ns/j2ee"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  elementFormDefault="qualified"
  attributeFormDefault="unqualified"
  version="1.1">
<xsd:annotation>
<xsd:documentation>
@(#)j2ee_web_services_1_1.xsds 1.11 02/11/03
</xsd:documentation>
</xsd:annotation>
```

```
<xsd:annotation>
<xsd:documentation>
```

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```
</xsd:documentation>
</xsd:annotation>
<xsd:annotation>
<xsd:documentation>
```

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#####

j2ee\_1\_4.xsd

```
<?xml version="1.0" encoding="UTF-8"?>
<xsd:schema
targetNamespace="http://java.sun.com/xml/ns/j2ee"
xmlns:j2ee="http://java.sun.com/xml/ns/j2ee"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
elementFormDefault="qualified"
attributeFormDefault="unqualified"
version="1.4">
<xsd:annotation>
<xsd:documentation>
@(#)j2ee_1_4.xsds 1.42 03/08/01
</xsd:documentation>
</xsd:annotation>
```

```
<xsd:annotation>
<xsd:documentation>
```

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```
</xsd:documentation>
</xsd:annotation>
<xsd:annotation>
```

<xsd:documentation>

The following definitions that appear in the common shareable schema(s) of J2EE deployment descriptors should be interpreted with respect to the context they are included:

Deployment Component may indicate one of the following:

j2ee application;  
application client;  
web application;  
enterprise bean;  
resource adapter;

Deployment File may indicate one of the following:

ear file;  
war file;  
jar file;  
rar file;

</xsd:documentation>

</xsd:annotation>

<xsd:import namespace="http://www.w3.org/XML/1998/namespace"  
schemaLocation="http://www.w3.org/2001/xml.xsd"/>

<xsd:include schemaLocation=  
"http://www.ibm.com/webservices/xsd/j2ee\_web\_services\_client\_1\_1.xsd"/>  
#####  
web-app\_2\_3.dtd

<!--

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#####

j2ee\_web\_services\_client\_1\_1.xsd

<?xml version="1.0" encoding="UTF-8"?>  
<xsd:schema xmlns="http://www.w3.org/2001/XMLSchema"

```
targetNamespace="http://java.sun.com/xml/ns/j2ee"
xmlns:j2ee="http://java.sun.com/xml/ns/j2ee"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
elementFormDefault="qualified"
attributeFormDefault="unqualified"
version="1.1">
<xsd:annotation>
<xsd:documentation>
@(#)j2ee_web_services_client_1_1.xsds 1.10 02/11/03
</xsd:documentation>
</xsd:annotation>

<xsd:annotation>
<xsd:documentation>
```

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```
</xsd:documentation>
</xsd:annotation>
<xsd:annotation>
<xsd:documentation>
```

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```
</xsd:documentation>
</xsd:annotation>
#####
```

web-app\_2\_4.xsd

```
<?xml version="1.0" encoding="UTF-8"?>
<xsd:schema xmlns="http://www.w3.org/2001/XMLSchema"
  targetNamespace="http://java.sun.com/xml/ns/j2ee"
  xmlns:j2ee="http://java.sun.com/xml/ns/j2ee"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  elementFormDefault="qualified"
  attributeFormDefault="unqualified"
  version="2.4">
<xsd:annotation>
<xsd:documentation>
%W% %E%
</xsd:documentation>
</xsd:annotation>

<xsd:annotation>
<xsd:documentation>
```

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```
</xsd:documentation>
</xsd:annotation>
#####
UCharacterProperty.java
```

```
/**
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*/
#####
ICURWLock.java
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UCharacter.java  
SimpleDateFormat.java

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/**
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ThaiBreakIterator.java  
DictionaryBasedBreakIterator.java

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BidiLine.java

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23 Dec 2008

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com.jcraft.jsch.jcraft.HMAC

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## The Independent JPEG Group's JPEG software

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README for release 6b of 27-Mar-1998

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Serious users of this software (particularly those incorporating it into larger programs) should contact IJG at [jpeg-info@uunet.uu.net](mailto:jpeg-info@uunet.uu.net) to be added to our electronic mailing list. Mailing list members are notified of updates and have a chance to participate in technical discussions, etc.

This software is the work of Tom Lane, Philip Gladstone, Jim Boucher, Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Guido Vollbeding, Ge' Weijers, and other members of the Independent JPEG Group.

IJG is not affiliated with the official ISO JPEG standards committee.

## DOCUMENTATION ROADMAP

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This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.  
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.  
REFERENCES Where to learn more about JPEG.  
ARCHIVE LOCATIONS Where to find newer versions of this software.  
RELATED SOFTWARE Other stuff you should get.  
FILE FORMAT WARS Software *\*not\** to get.  
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:



install.doc How to configure and install the IJG software.  
usage.doc Usage instructions for cjpeg, djpeg, jpegtran,  
rdjpgcom, and wrjpgcom.  
\*.1 Unix-style man pages for programs (same info as usage.doc).  
wizard.doc Advanced usage instructions for JPEG wizards only.  
change.log Version-to-version change highlights.  
Programmer and internal documentation:  
libjpeg.doc How to use the JPEG library in your own programs.  
example.c Sample code for calling the JPEG library.  
structure.doc Overview of the JPEG library's internal structure.  
filelist.doc Road map of IJG files.  
coderules.doc Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

## OVERVIEW

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This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images. JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the

library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltconfig, ltmain.sh). Another support script, install-sh, is copyright by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

We are required to state that  
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## REFERENCES

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We highly recommend reading one or more of these references before trying to

understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at <ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz>. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

The best full description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US\$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2). This is by far the most complete exposition of JPEG in existence, and we highly recommend it.

The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging \$95 for Part 1 and \$47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:  
Literature Department

C-Cube Microsystems, Inc.  
1778 McCarthy Blvd.  
Milpitas, CA 95035  
phone (408) 944-6300, fax (408) 944-6314

A PostScript version of this document is available by FTP at <ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz>. There is also a plain text version at <ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz>, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from <ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz>. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from [ftp.sgi.com](ftp://ftp.sgi.com) or from <ftp://ftp.uu.net/graphics/jpeg/>. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note. libtiff is available from <ftp://ftp.sgi.com/graphics/tiff/>.

## ARCHIVE LOCATIONS

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The "official" archive site for this software is [ftp.uu.net](ftp://ftp.uu.net) (Internet address 192.48.96.9). The most recent released version can always be found there in directory [graphics/jpeg](ftp://ftp.uu.net/graphics/jpeg). This particular version will be archived as <ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz>. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact [help@uunet.uu.net](mailto:help@uunet.uu.net) for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only [ftp.uu.net](ftp://ftp.uu.net) is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from the SimTel archives (<ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/>), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the [ftp.uu.net](ftp://ftp.uu.net) release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups [comp.graphics.misc](mailto:comp.graphics.misc), [news.answers](mailto:news.answers), and other groups. It is available on the World Wide Web at <http://www.faqs.org/faqs/jpeg-faq/> and other [news.answers](mailto:news.answers) archive sites, including the official [news.answers](mailto:news.answers) archive at [rtfm.mit.edu](http://rtfm.mit.edu): <ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/>. If you don't have Web or FTP access, send e-mail to [mail-server@rtfm.mit.edu](mailto:mail-server@rtfm.mit.edu) with body

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send usenet/news.answers/jpeg-faq/part2

## RELATED SOFTWARE

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Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBMPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites, notably <ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/>. Unfortunately PBMPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from <ftp://havefun.stanford.edu/pub/jpeg/>. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

## FILE FORMAT WARS

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Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read. (For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist.

We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

## TO DO

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The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to [jpeg-info@uunet.uu.net](mailto:jpeg-info@uunet.uu.net).

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libswt-gnome-gtk-xxxx.so (where "xxxx" is the version number)

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The following files in the plug-in JAR shall be defined as the native code portion of the GTK+ Binding:

libswt-atk-gtk-xxxx.so (where “xxxx” is the version number)

libswt-pi-gtk-xxxx.so (where “xxxx” is the version number)

The following files in both the plug-in JAR and the src.zip shall be defined respectively as the bytecode and source code portions of the GTK+ Binding:

The contents of the directory org/eclipse/swt/internal/accessibility/gtk (but not including any sub-directories)

The contents of the directory org/eclipse/swt/internal/cde (but not including any sub-directories)

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The following files in the plug-in JAR shall be defined as the native code portion of the WebKitGTK+ Binding:

libswt-webkit-gtk-xxxx.so (where “xxxx” is the version number)

The following files in both the plug-in JAR and the src.zip shall be defined respectively as the bytecode and source code portions of the WebKitGTK+ Binding:

The contents of the directory org/eclipse/swt/internal/webkit (but not including any sub-directories)

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The WebKitGTK+ Binding also contains portions of the WebKit JavaScriptCore code which is made available by the WebKit open source project (<http://webkit.org/>). The WebKit JavaScriptCore code was obtained under the terms of the BSD license. A copy of the BSD license is provided (webkit-bsd.txt) and is also available at <http://webkit.org/coding/bsd-license.html>.

## libsoup

The “WebKitGTK+ Binding” also includes a binding to the libsoup API. The Content may include any or all of the following files:

The following files in the plug-in JAR shall be defined as the native code portion of the WebKitGTK+ Binding:

libswt-webkit-gtk-xxxx.so (where “xxxx” is the version number)

The following files in both the plug-in JAR and the src.zip shall be defined respectively as the bytecode and source code portions of the WebKitGTK+ Binding:

The contents of the directory org/eclipse/swt/internal/webkit (but not including any sub-directories)

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## Mozilla Binding

The “Mozilla Binding” is a binding to the Mozilla API. The Content may include any or all of the following files:

The following files in the plug-in JAR shall be defined as the native code portion of the Mozilla Binding:

libswt-mozilla-gtk-xxxx.so (where “xxxx” is the version number)

libswt-mozilla-gcc3-gtk-xxxx.so (where “xxxx” is the version number)

libswt-xulrunner-gtk-xxxx.so (where “xxxx” is the version number)

libswt-xpcominit-gtk-xxxx.so (where “xxxx” is the version number)

The following files in both the plug-in JAR and the src.zip shall be defined respectively as the bytecode and source code portions of the Mozilla Binding:

The contents of the directory org/eclipse/swt/internal/mozilla (but not including any sub-directories)

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## XULRunner 1.9 (subset, derivative work)

The libraries libswt-xulrunner-gtk-xxxx.so, libswt-mozilla-gtk-xxxx.so, and libswt-mozilla-gcc3-gtk-xxxx.so (where “xxxx” is the version number) contain a small portion of XULRunner 1.9 content (header files) that have been modified from the Original Code provided by mozilla.org, and whose Initial Developer is Netscape Communications Corporation. Use of this code is governed by the terms and conditions of the Mozilla Public License Version 1.1 (“MPL”). A copy of the MPL is provided with the Content (mpl-v11.txt) and is also available at <http://www.mozilla.org/MPL/MPL-1.1.html>.

The changed files are:

org.eclipse.swt/Eclipse SWT Mozilla/common/library/nsIScriptContext.h  
org.eclipse.swt/Eclipse SWT Mozilla/common/library/nsIScriptGlobalObject.h

Changes to the original files were made by SWT on April 7, 2009 and are marked with trailing comment “//SWT-20090407”.

## Cairo Binding

The “Cairo Binding” is a binding to the Cairo API. The Content may include any or all of the following files

The following files in the plug-in JAR shall be defined as the native code portion of the Cairo Binding:

libswt-cairo-gtk-xxxx.so (where “xxxx” is the version number)

The following files in both the plug-in JAR and the src.zip shall be defined respectively as the bytecode and source code portions of the Cairo Binding:

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## Cairo for Linux

Refer to the file about\_files/about\_cairo.html for licensing details about “Cairo for Linux.”

## Independent JPEG Group's JPEG software release 6b

This software is based in part on the work of the Independent JPEG Group's JPEG software release 6b (“LIBJPEG”). LIBJPEG was used to implement the decoding of JPEG format files in Java (TM). The Content does NOT include any portion of the LIBJPEG file ansi2knr.c.

Your use of LIBJPEG is subject to the terms and conditions located in the about\_files/IJG\_README file which is included with the Content.

The IJG's website is located at <http://ijg.org>.

The class org.eclipse.swt.internal.image.JPEGFileFormat is based on following files from LIBJPEG:

- cderror.h
- cdjpeg.h
- jchuff.h
- jdcolor.c
- jdct.h
- jdhuft.h
- jerror.h
- jidctint.c
- jinclude.h
- jmemsys.h
- jmorecfg.h
- jpegint.h
- jpeglib.h
- jversion.h
- transupp.h

The class org.eclipse.swt.internal.image.JPEGDecoder is based on the following files from LIBJPEG:

- jpegim.in.c
- jpegstd.c
- jpegcoef.c
- jpegcolor.c
- jpegdctmgr.c
- jchuff.c
- jcinit.c
- jcmainct.c
- jcmarker.c
- jcmaster.c
- jcomapi.c
- jcparam.c
- jcphuff.c
- jcprepct.c
- jcsample.c
- jctrans.c
- jdapimin.c
- jdapistd.c
- jdadast.c
- jdatsrc.c
- jdcoefct.c
- jdcolor.c
- jddctmgr.c
- jdhuft.c
- jdinput.c
- jdmainct.c
- jdmarker.c
- jdmaster.c
- jdmerge.c
- jdphuff.c
- jdpostct.c
- jdsample.c
- jdtrans.c
- jerror.c

jfdctflt.c  
jfdctfst.c  
jfdctint.c  
jidctflt.c  
jidctfst.c  
jidctint.c  
jidctred.c  
jpegtran.c  
jquant1.c  
jquant2.c  
jutils.c  
cderror.h  
cdjpeg.h  
jchuff.h  
jconfig.h  
jdct.h  
jdhuft.h  
jerror.h  
jinclude.h  
jmorecfg.h  
jpegint.h  
jpeglib.h  
jversion.h  
transupp.h

The following changes were made to the LIBJPEG code in the Content:

In Java, pointer math is not allowed so indexing was used instead.  
Function pointers were replaced with switch statements.  
The virtual memory, tracing and progress monitoring were removed.  
The error handling was simplified and now uses Java exceptions.

PuTTY 0.58 (derivative work)

Portions of the SWT class `org.eclipse.swt.internal.image.PngDeflater` are based on PuTTY's `sshzlib.c`. PuTTY is made available by Mozilla.org. Use of PuTTY is governed by the terms and conditions of the the following MIT-style license:

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This plugin contains a Java port of the code for the STL heap sorting algorithm. The original code can be found at:

[http://www.sgi.com/tech/stl/stl\\_heap.h](http://www.sgi.com/tech/stl/stl_heap.h)

The java implementation of the code can be found in src.zip in the following files:

org\eclipse\ui\internal\views\markers\MarkerSortUtil.java

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\* Based on the original MiniSat specification from:  
 \*

\* An extensible SAT solver. Niklas Een and Niklas Sorensson. Proceedings of the  
 \* Sixth International Conference on Theory and Applications of Satisfiability  
 \* Testing, LNCS 2919, pp 502-518, 2003.  
 \*

\* See [www.minisat.se](http://www.minisat.se) for the original solver in C++.  
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The content in the following classes

`org/sat4j/pb/reader/OPBReader2005.java`

`org/sat4j/pb/reader/OPBReader2007.java`

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\* Based on the original MiniSat specification from:

\*

\* An extensible SAT solver. Niklas Een and Niklas Sorensson. Proceedings of the  
\* Sixth International Conference on Theory and Applications of Satisfiability  
\* Testing, LNCS 2919, pp 502-518, 2003.

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\* See [www.minisat.se](http://www.minisat.se) for the original solver in C++.

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Revision: \$Id: xhtml11-flat.dtd,v 1.1 2008/01/30 20:56:29 cgoldthor Exp \$

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<!-- This is the driver file for version 1.1 of the XHTML DTD.

Please use this public identifier to identify it:

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888 8 88800088P' `8888'
888 8 888 .8PY888.
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```
<<<<<<<<<xilinx-separator>>>>>>>>>
```

Jide includes the following jar files:

- commons-math-2.2.jar
- laf-widget.jar (50)
- poi-3.5-FINAL-20090928.jar
- poi-ooxml-3.5-FINAL-20090928.jar
- servlet-api.jar
- Lucene-core-3.5.0.jar
- Jgoodies-looks-2.4.2.jar
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- poi-3.5-FINAL-20090928.jar

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FILE: ./jquery-1.4.1.js
#####
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@(#) \$Id: arcnet.h,v 1.2 2001/04/24 02:17:52 guy Exp \$ (LBL)

from: NetBSD: if\_arc.h,v 1.13 1999/11/19 20:41:19 thorpej Exp

RFC 1051

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File: /home/sps/ttt/libpcap-1.0.0/./atmuni31.h

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@(#) \$Header: /tcpdump/master/libpcap/atmuni31.h,v 1.1.6.2 2007/10/22 19:30:14 guy Exp \$ (LBL)

Based on UNI3.1 standard by ATM Forum  
ATM traffic types based on VPI=0 and (the following VCI

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@(#)bpf.c 7.5 (Berkeley) 7/15/91

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File: /home/sps/ttt/libpcap-1.0.0/./dlpisubs.c

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This file contains dlpi/libdlpi related common functions used by pcap-[dlpi,libdlpi].c.

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@(#) \$Header: /tcpdump/master/libpcap/ethertype.h,v 1.14 2005/09/05 09:06:58 guy Exp \$ (LBL)

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\$FreeBSD: src/sys/net80211/ieee80211.h,v 1.10 2005/07/22 16:55:27 sam Exp \$

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File: /home/sps/ttt/libpcap-1.0.0/./inet.c

Mode: c; tab-width: 8; indent-tabs-mode: 1; c-basic-offset: 8; -\*- \*/

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@(#) \$Header: /tcpdump/master/libpcap/lc.h,v 1.2 2001/01/28 09:44:50 guy Exp \$ (LBL)

802.2 LLC SAP values.

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File: /home/sps/ttt/libpcap-1.0.0/./nametoaddr.c

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Name to id translation routines used by the scanner.  
These functions are not time critical.

-----  
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@(#) \$Header: /tcpdump/master/libpcap/nlpid.h,v 1.2 2002/12/06 00:01:34 hannes Exp \$ (Juniper)

Types missing from some systems

Network layer protocol identifiers

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File: /home/sps/ttt/libpcap-1.0.0/./optimize.c

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Optimization module for tcpdump intermediate representation.

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Bluetooth sniffing API implementation for Linux platform  
By Paolo Abeni <paolo.abeni@email.it>

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Bluetooth sniffing API implementation for Linux platform  
By Paolo Abeni <paolo.abeni@email.it>

@(#) \$Header: /tcpdump/master/libpcap/pcap-bt-linux.h,v 1.4.2.1 2008-04-04 19:39:05 guy Exp \$ (LBL)

Prototypes for Bluetooth-related functions

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File: /home/sps/ttt/libpcap-1.0.0/./pcap-dlpi.c

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pcap-linux.c: Packet capture interface to the Linux kernel

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Modifications: Added PACKET\_MMAP support  
Paolo Abeni <paolo.abeni@email.it>

based on previous works of:  
Simon Patarin <patarin@cs.unibo.it>  
Phil Wood <cpw@lanl.gov>

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File: /home/sps/ttt/libpcap-1.0.0/./pcap-namedb.h

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packet filter subroutines for tcpdump  
Extraction/creation by Jeffrey Mogul, DECWRL

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pcap-sita.c: Packet capture interface additions for SITA ACN devices

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Modifications made to accommodate the new SunOS4.0 NIT facility by Micky Liu, micky@cunxc.cc.columbia.edu, Columbia University in May, 1989. This module now handles the STREAMS based NIT.

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USB sniffing API implementation for Linux platform

By Paolo Abeni <paolo.abeni@email.it>

Modifications: Kris Katterjohn <katterjohn@gmail.com>

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USB sniffing API implementation for Linux platform

By Paolo Abeni <paolo.abeni@email.it>

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Prototypes for USB-related functions

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File: /home/sps/ttt/libpcap-1.0.0/./pcap.h

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@(#) \$Header: /tcpdump/master/libpcap/pcap.h,v 1.59 2006/10/04 18:09:22 guy Exp \$ (LBL)

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File: /home/sps/ttt/libpcap-1.0.0/./ppp.h

@(#) \$Header: /tcpdump/master/libpcap/ppp.h,v 1.12 2005/02/08 19:52:19 guy Exp \$ (LBL) \*/

## Point to Point Protocol (PPP) RFC1331

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savefile.c - supports offline use of tcpdump  
Extraction/creation by Jeffrey Mogul, DECWRL  
Modified by Steve McCanne, LBL.

Used to save the received packet headers, after filtering, to a file, and then read them later.  
The first record in the file contains saved values for the machine dependent values so we can print the dump file on any architecture.

-----

File: /home/sps/ttt/libpcap-1.0.0/./sunatmpos.h

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@(#) \$Header: /tcpdump/master/libpcap/sunatmpos.h,v 1.1 2002/07/11 09:06:47 guy Exp \$ (LBL)

SunATM header for ATM packet \*/

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File: /home/sps/ttt/libpcap-1.0.0/./Win32/Src/ffs.c

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```
#include <sys/cdefs.h>
__FBSDID("$FreeBSD: /repoman/r/ncvs/src/lib/libc/net/gai_strerror.c,v 1.1 2005/04/06 12:45:51 ume Exp $");
```

-----  
File: /home/sps/ttt/libpcap-1.0.0/./Win32/Src/getaddrinfo.c

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\$Id: inet\_aton.c,v 1.2 2003/11/15 23:24:06 guy Exp \$ \*/

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\$Id: inet\_pton.c,v 1.3 2007/09/27 18:02:20 gianluca Exp \$ \*/

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\$Id: addrinfo.h,v 1.1 2002/08/01 08:33:05 risso Exp \$ \*/

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@(#) \$Header: /tcpdump/master/libpcap/Win32/Include/ip6\_misc.h,v 1.5 2006/01/22 18:02:18 gianluca Exp \$ (LBL)

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File: /home/sps/ttt/libpcap-1.0.0/./Win32/Include/sockstorage.h

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@(#)if.h 8.1 (Berkeley) 6/10/93

\$FreeBSD: src/sys/net/if.h,v 1.49.2.1 1999/08/29 16:28:15 peter Exp \$

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netdb.h,v 1.4 1995/08/14 04:05:04 hjl Exp

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File: /home/sps/ttt/libpcap-1.0.0/./Win32/Include/net/paths.h

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@(#)paths.h 5.15 (Berkeley) 5/29/91

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File: /home/sps/ttt/libpcap-1.0.0/./Win32/Include/arpa/nameser.h

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@(#)nameser.h 8.1 (Berkeley) 6/2/93  
nameser.h,v 1.2 1995/05/06 14:23:54 hjl Exp

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bluetooth data struct  
By Paolo Abeni <paolo.abeni@email.it>

@(#) \$Header: /tcpdump/master/libpcap/pcap/bluetooth.h,v 1.1 2007/09/22 02:10:17 guy Exp \$

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File: /home/sps/ttt/libpcap-1.0.0/./pcap/bpf.h

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@(#)bpf.h 7.1 (Berkeley) 5/7/91

@(#) \$Header: /tcpdump/master/libpcap/pcap/bpf.h,v 1.19.2.8 2008-09-22 20:16:01 guy Exp \$ (LBL)

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File: /home/sps/ttt/libpcap-1.0.0/./pcap/namedb.h

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@(#) \$Header: /tcpdump/master/libpcap/pcap/namedb.h,v 1.1 2006/10/04 18:09:22 guy Exp \$ (LBL)

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File: /home/sps/ttt/libpcap-1.0.0/./pcap/pcap.h

Mode: c; tab-width: 8; indent-tabs-mode: 1; c-basic-offset: 8; -\*- \*/

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@(#) \$Header: /tcpdump/master/libpcap/pcap/pcap.h,v 1.4.2.11 2008-10-06 15:38:39 gianluca Exp \$ (LBL)

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Basic USB data struct

By Paolo Abeni <paolo.abeni@email.it>

@(#) \$Header: /tcpdump/master/libpcap/pcap/usb.h,v 1.6 2007/09/22 02:06:08 guy Exp \$

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File: /home/sps/ttt/libpcap-1.0.0/./pcap/vlan.h

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@(#)bpf.c 7.5 (Berkeley) 7/15/91

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File: /home/sps/ttt/libpcap-1.0.0/./msdos/bin2c.c

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File: /home/sps/ttt/libpcap-1.0.0/./msdos/ndis2.c

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Developers:

David K. Hess, Douglas Lee Schales, David R. Safford  
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Gisle Vanem 1998

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\$Id: snprintf.c,v 1.1 2004/04/05 22:43:51 guy Exp \$

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@(#) \$Header: /tcpdump/master/libpcap/lbl/os-aix4.h,v 1.1 2002/06/01 09:37:40 guy Exp \$

Prototypes missing in AIX 4.x \*/

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File: /home/sps/ttt/libpcap-1.0.0/.lbl/os-hpux11.h

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Prototypes missing in HP-UX 11.x

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File: /home/sps/ttt/libpcap-1.0.0/./lbl/os-osf4.h

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@(#) \$Header: /tcpdump/master/libpcap/lbl/os-osf4.h,v 1.2 2000/12/22 11:51:33 guy Exp \$ (LBL)

Prototypes missing in Digital UNIX 4.x

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@(#) \$Header: /tcpdump/master/libpcap/lbl/os-osf5.h,v 1.2 2002/08/02 03:24:15 guy Exp \$ (LBL)

Prototypes missing in Tru64 UNIX 5.x

XXX - "snprintf()" and "vsnprintf()" aren't missing, but you have to #define the right value to get them defined by <stdio.h>.

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Prototypes missing in SunOS 5 \*/  
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@(#) \$Header: /tcpdump/master/libpcap/lbl/os-sunos4.h,v 1.32.1.1 1999/10/07 23:46:41 mcr Exp \$ (LBL)

Prototypes missing in SunOS 4 \*/  
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File: /home/sps/ttt/libpcap-1.0.0/.lbl/os-ultrix4.h

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@(#) \$Header: /tcpdump/master/libpcap/lbl/os-ultrix4.h,v 1.19.1.1 1999/10/07 23:46:41 mcr Exp \$ (LBL)

Prototypes missing in Ultrix 4 \*/

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File: /home/sps/ttt/libpcap-1.0.0/./bpf/net/bpf\_filter.c

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@(#)bpf.c 7.5 (Berkeley) 7/15/91

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8. **SOFTWARE MAINTENANCE SERVICE.** During any paid Software Maintenance Service term, if applicable, MathWorks shall provide Software

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9.3. For Perpetual Licenses: Licensee shall have the right to use the Programs indefinitely, subject to the termination provisions in this Agreement. Licensee understands and agrees that the Software Maintenance Service for each Perpetual License will terminate automatically upon expiration of the initial Software Maintenance Service term included with the acquisition of the License. Thereafter, the Software Maintenance Service term may be renewed for any Program, at the then-current price, and for the then-applicable term, as long as MathWorks offers such Software Maintenance Service for such Program.



9.4. For Student Licenses: See the Student Version Installation and Use Addendum for the License Term.

10. **TERMINATION.** MathWorks may terminate this Agreement and all Licenses granted hereunder by written notice to Licensee if Licensee breaches any material term of this License, including failure to pay any License fees due, and Licensee has not cured such breach within sixty (60) days of written notification. MathWorks may immediately terminate upon notice this Agreement and all Licenses granted hereunder should Licensee breach the terms and conditions of Articles 3, 4, and/or 11. Licensee may terminate this License at any time, for any reason. Licensee shall not be entitled to any refund if this License is terminated, except for License fees paid for any Programs for which the Acceptance Period has not expired at the time of termination. Upon termination, Licensee shall promptly return all but archival copies of the Programs in Licensee's possession or control, or promptly provide written certification of their destruction.

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13. **FOR EUROPEAN UNION LICENSEES ONLY.** Any contractual provisions of this Agreement contrary to laws implemented under Article 6 of Appendix V of the European Union Software Directive or to the exceptions provided for in Article 5(2) and (3) of such Appendix shall be null and void solely to the extent decompiling, disassembling, or otherwise

reverse-engineering of the Programs is necessary to enable the Licensee to create an independent program that is interoperable with the Programs or any other permitted objectives specified by such laws implemented under such directive (collectively, the "Permitted Objectives"), provided that any such information gained is used solely for such Permitted Objectives.

14. **TAXES, DUTIES, CUSTOMS.** Absent appropriate exemption certificates or other conclusive proof of tax exempt status, Licensee shall pay all applicable sales, use, excise, value-added, and other taxes, duties, levies, assessments, and governmental charges payable in connection with this Agreement or the Licenses granted hereunder, excluding taxes based on or measured by MathWorks' income, for which MathWorks shall be solely responsible.
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19. **GOVERNING LAW; JURISDICTION.** This Agreement shall be interpreted, enforced and construed and the rights of the parties hereunder governed in all respects by the laws of the Commonwealth of Massachusetts, United States of America, without regard to its conflicts of law provisions, and both parties consent to the jurisdiction of the federal and state courts located in said Commonwealth and consent to the service of process, pleadings and notices in connection with any and all actions initiated in such courts. The parties agree that a final judgment in any such action or proceeding shall be conclusive and binding and may be enforced in any other jurisdiction. To the extent any governing law, treaty, or regulation is in conflict with this Agreement, the conflicting terms of this Agreement shall be superseded only to the extent necessary by such law, treaty, or regulation. If any provision of this Agreement shall be otherwise unlawful, void, or otherwise unenforceable, that provision shall be enforced to the maximum extent permissible. In either case, the remainder of this

Agreement shall not be affected. The parties agree that the U.N. Convention on Contracts for the International Sale of Goods shall not apply to this Agreement. The parties further agree that the Uniform Computer Information Transactions Act, or any version thereof, adopted by any state, in any form ("UCITA"), shall not apply to this Agreement. To the extent that UCITA is applicable, the parties agree to opt out of the applicability of UCITA pursuant to the Opt-Out provision(s) contained therein.

20. COMPLIANCE AND AUDIT RIGHTS. Licensee agrees to notify MathWorks promptly upon discovery of any failure to comply with one or more Licenses granted under this Agreement, or any failure to comply with any other material term of this Agreement. To confirm Licensee's compliance with the terms and conditions of this Agreement, Licensee agrees to allow MathWorks to audit Licensee's use of the Programs, and to provide MathWorks access to Licensee's facilities and Computers, and cooperation from Licensee's employees and consultants, as reasonably requested by MathWorks in order to perform such audit, all during normal business hours, and after reasonable prior notice from MathWorks. If an audit discloses that Licensee has failed to comply with one or more Licenses, and such failure to comply could have in part or in whole been avoided by Licensee having paid additional License fees to expand the scope of the License or Licenses, then Licensee shall promptly pay MathWorks such Licensing fees (at MathWorks' then current rates) and, if such unpaid License fees exceed 5% of the License fees paid to MathWorks for the applicable Programs during the applicable period during which such underpayment occurred, then Licensee shall, in addition to paying the unpaid License fees, also reimburse MathWorks the full cost of such audit.

21. LICENSE MANAGEMENT. The Programs contain technology for the prevention of unlicensed use. The Programs require activation to exercise your rights under this Agreement. You may also need to activate if you redesignate the Programs on your License or modify your computer hardware.

Activation associates the use of the Programs with a specific Computer, and in some cases the Licensed User. During activation, data about the Programs and the Computer will be transmitted to MathWorks. This data includes the License information, Computer identification, and location. Some License Options may require the MathWorks Account information and the operating system user name for the Licensed User. A License file will be provided to complete activation.

22. HEADINGS. The inclusion of headings is for convenience of reference only and shall not affect the construction or interpretation of this Agreement.

23. ENTIRE AGREEMENT. This Agreement, and any applicable Addendum thereto including any documents referenced therein are incorporated herein by reference, and contain the entire understanding of the parties and may not be modified or amended except by written instrument, executed by authorized representatives of MathWorks and Licensee. In the event of any conflict between this Agreement and any purchase order executed by

Licensee (whether executed before or after this Agreement), this Agreement shall prevail.

## The MathWorks, Inc. Software License Agreement - Installation and Use Addendum

This is an Addendum to The MathWorks, Inc. Software License Agreement (the "Agreement"), and the terms and conditions of this Addendum are incorporated therein. Each capitalized term used herein and not defined herein shall have the meaning ascribed to it in the Agreement.

1. **SCOPE.** The Installation and Use provisions of this Addendum apply to each Program licensed under the Agreement. The applicable provisions are determined by the particular License Option that Licensee acquired, including those related to the permitted Activation Type associated with the License Option acquired.

### 2. DEFINITIONS.

2.1. **Activation Type.** One of the Standalone Named User, Designated Computer, Network Named User, or Network Concurrent User Activation Types available with respect to the License Option acquired.

2.2. **License Manager.** The Macrovision FLEXnet(R) license management software provided with the Program(s).

2.3. **Licensed User.** An individual authorized by the Licensee to use the Programs for Licensee's Internal Operations, to the extent permitted by the License Option acquired.

2.4. **License Option.** The specific rights, restrictions, and obligations under which Licensee may install and use a Program pursuant to the Agreement, including those related to the permitted Activation Type associated with the License Option acquired.

2.5. **Named User.** A Licensed User designated and identified by Licensee as the "Named User" for a License to a Program under either the "Standalone Named User" or "Network Named User" Activation Type.

3. **INSTALLATION AND USE.** Specific rights, obligations, and restrictions apply to each License Option. Licensee's right to install and use the Programs is determined by the License Option acquired, including the permitted Activation Type with respect to such License Option. By accepting the terms and conditions of the Agreement, Licensee also accepts the License Option acquired.

#### 3.1. License Options.

3.1.1. **Individual.** Except as specifically set forth in Section 3.3 hereof, the Individual License Option permits one Activation Type, either the Standalone Named User Activation Type or the Designated Computer Activation Type.

3.1.2. **Network Named User.** Except as specifically set forth in Section

3.3 hereof, the Network Named User License Option permits only the Network Named User Activation Type.

3.1.3. Concurrent. Except as specifically set forth in Section 3.3 hereof, the Concurrent License Option permits only the Network Concurrent User Activation Type.

### 3.2. Activation Types.

3.2.1. Standalone Named User. Program use is restricted to the single, designated Named User. Programs may be installed and operated on one or more individual Computers, provided the Programs are only accessible to, and operated by, the Named User for that License. The physical locations of the Computers used by the Named User to run the Programs are not limited; the Computers may be located at work, home, in a laboratory, or on a laptop. Licensee may only designate one Licensed User access to or use of the Programs under each Named User License. Licensee may redesignate the Named User for a Program, whether temporarily or not, no more than four (4) times per year. A Named User may not use a Program on more than two (2) Computers simultaneously. In the case of Standalone Named User Licenses licensed as part of a group, Licensee shall be responsible for, and shall assign a central administrator the task of, administering the Licenses and installing the Programs, including new versions of the Programs delivered during any paid Software Maintenance Service term.

3.2.2. Designated Computer. The Programs may only be installed and operated on a single, designated Computer, provided the Computer is not a network server and the Programs are only operated from that Computer's console by only one Licensed User at any given time. Licensee may redesignate the Computer for a Program to a different Computer, whether temporarily or not, no more than four (4) times per year. In the case of Designated Computer Licenses licensed as part of a group, Licensee shall be responsible for, and shall assign a central administrator the task of, administering the Licenses and installing the Programs, including new versions of the Programs delivered during any paid Software Maintenance Service term.

3.2.3. Network Named User. Programs may only be installed in a central location on a single designated network server. Licensee must run the License Manager in its User-Based mode, and edit the Local License Options file to maintain a list of Named Users authorized to access and operate each Program. Licensee may re-edit the list of Named Users in the Local License Options file and may redesignate Named Users for a Program, whether temporarily or not, no more than four (4) times per year, provided the number of Named Users in the file never exceeds the number licensed per Program. Portions of the Programs may be installed on individual Computers to accelerate startup times, as long as the installations on the individual Computers are controlled by the License Manager on the network

server. A Named User may not use a Program on more than two (2) Computers simultaneously.

3.2.4. Network Concurrent User. The Programs may only be installed in a central location on a single designated network server. Licensee must run the License Manager in its Concurrent mode and may have only as many Licensed Users simultaneously operating a Program at any given time as the number of Concurrent keys acquired for that Program. Subject to the foregoing, a Licensed User of the Concurrent License Option may utilize any number of Computers served by a single License Manager provided that, before using a Program on any Computer, the Licensed User checks out a separate Concurrent key from the License Manager for that Computer. Portions of the Programs may be installed on individual Computers to accelerate startup times, as long as the installations on the individual Computers are controlled by the License Manager on the network server. Licensees of the Concurrent License Option are prohibited from providing Program access to users located outside the country in which the License Manager server is installed unless Licensee has contracted for global use. For the purposes of the Concurrent License Option, all servers located in a member country of the North American Free Trade Agreement ("NAFTA") shall be considered located in the same country as those of the other NAFTA members, and all servers located in Iceland, Norway, Switzerland, or any member country of the European Union ("EU") shall be considered located in the same country.

3.3. MATLAB(R) Distributed Computing Server(TM). Licensees of the MATLAB(R) Distributed Computing Server(TM) Program ("MDCS") are permitted to install and make available Programs, other than any Ineligible Program, on one or more Computers ("Computer Cluster") solely for use through the MDCS, provided that (1) the Programs on the Computer Cluster are controlled by a single License Manager for each MDCS, (2) the number of simultaneous Program sessions does not exceed the number of MDCS workers acquired, (3) access to any Program, whether in the MDCS or otherwise, remains limited to those persons who are Licensed Users of such Programs, and the Parallel Computing Toolbox; and 4) access to any Program, including the MDCS, is not made available (i) to any Third Party without the advance written consent of MathWorks, or (ii) to any user outside the country in which the MDCS' License Manager server is installed, unless the Licensee acquires a separate license from MathWorks. For the purposes of this Section 3.3, all MDCS License Manager servers located in a member country of the North American Free Trade Agreement ("NAFTA") shall be considered located in the same country as those of the other NAFTA members, and all MDCS License Manager servers located in Iceland, Norway, Switzerland, or any member country of the European Union ("EU") shall be considered located in the same country.

#### 4. REMOTE AND SHARED OPERATION.

Subject also to the foregoing:

#### 4.1. Remote Access to the Desktop:

Using the Microsoft(R) Remote Desktop connection feature or similar technologies:

4.1.1. Named Users and Network Named Users may remotely access Programs for which they are licensed.

4.1.2. Network Concurrent Users may remotely access Programs served by the License Manager server for the License under which they are operating.

4.1.3. The Licensee of a Designated Computer Activation Type may designate one Licensed User to remotely access the Programs licensed on the Designated Computer for operation on that Designated Computer. Licensee may redesignate such Licensed User, whether temporarily or not, no more than four (4) times per year.

#### 4.2. Shared Access to the Desktop:

4.2.1. A Licensed User may use Microsoft(R) Remote Assistance technology, NetMeeting(R) conferencing software, or similar technologies to share the desktop view of a Program session remotely with another individual for assistive purposes only.

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1. **SCOPE.** The provisions of this Academic Installation and Use Addendum apply to each Program licensed under the Agreement at prices offered only to degree-granting educational institutions ("Academic prices") for Academic Internal Operations only, as defined below. Research and development divisions and centers of universities, U.S. government agencies and other not-for-profit organizations do not qualify for Academic prices. This Addendum imposes certain additional obligations and restrictions with respect to the Programs licensed at such Academic prices that are not contained in the Agreement. The applicable provisions are determined by the particular Academic License Option that Licensee acquires for each Program, including those related to the permitted Activation Type associated with the Academic License Option acquired. In the event of a conflict between the provisions of this Addendum and the Agreement, these Addendum provisions shall apply.

#### 2. DEFINITIONS.

2.1. **Academic Internal Operations.** The installation and use of the Programs by Licensed Users, in accordance with the Academic License



Option acquired, for the purpose of (i) in the case of employees (faculty and academic staff), performing software administration, teaching, and noncommercial, academic research in their ordinary course as Licensee's employees; and (ii) in the case of enrolled students, meeting classroom requirements of courses and study offered by the Licensee. Any other use is expressly prohibited.

2.2. Activation Type. One of the Standalone Named User, Designated Computer, or Network Concurrent User Activation Types available with respect to the Academic License Option Acquired.

2.3. License Manager. The Macrovision FLEXnet(R) license management software provided with the Programs.

2.4. Licensed Users. All enrolled students and employees (faculty and academic staff) of the Licensee who are authorized by Licensee to use the Programs for Academic Internal Operations in accordance with the Agreement, as revised from time to time, and to the extent permitted by the Academic License Option acquired. As used herein, "employees" excludes subcontractors and consultants of the Licensee.

2.5. Academic License Option. The specific rights, restrictions, and obligations under which Licensee may install and use a Program pursuant to the Agreement, including those related to the permitted Activation Type associated with the Academic License Option acquired.

2.6. Named User. Licensed User designated and identified by Licensee as the "Named User" for a License to a Program under the "Standalone Named User" Activation Type.

3. INSTALLATION AND USE. Specific rights, obligations, and restrictions apply to each Academic License Option. Licensee's right to install and use the Programs is determined by the Academic License Option acquired, including the permitted Activation Type with respect to such Academic License Option. By accepting the terms and conditions of the Agreement, Licensee also accepts the Academic License Option acquired, and agrees to use the Programs only for Academic Internal Operations.

3.1. Academic License Options.

3.1.1. Individual. Except as specifically set forth in Section 3.3 hereof, the Individual License Option permits one Activation Type, either the Standalone Named User Activation Type or the Designated Computer Activation Type.

3.1.2. Concurrent. Except as specifically set forth in Section 3.3, the Concurrent License Option permits only the Network Concurrent User Activation Type.

3.1.3. Classroom. Except as specifically set forth in Section 3.3, the Classroom License Option permits one Activation Type, either the Network Concurrent User Activation Type or the Designated Computer Activation Type. Notwithstanding the foregoing

definition of Academic Internal Operations, Programs licensed under the Classroom License Option are further restricted to use in connection with on-campus computing facilities that are used solely in support of classroom instruction of students. Research use is not permitted.

### 3.2. Activation Types.

3.2.1. Standalone Named User. Program use is restricted to the single, designated Named User. The Programs may be installed and operated on one or more individual Computers, provided the Programs are only accessible to, and operated by, the Named User for that License. The physical locations of the Computers used by the Named User to run the Programs are not limited; the Computers may be located at work, home, in a laboratory, or on a laptop. Licensee may only designate one Licensed User access to or use of the Programs under each Named User License. Licensee may redesignate the Named User for a Program, whether temporarily or not, no more than four (4) times per year. A Named User may not use a Program on more than two (2) Computers simultaneously.

3.2.2. Designated Computer. The Programs may only be installed and operated on a single, designated Computer, provided the Computer is not a network server and the Programs are only operated from that Computer's console by only one Licensed User at any given time. Licensee may redesignate the Computer for a Program to a different Computer, whether temporarily or not, no more than four (4) times per year. In the case of Designated Computer Licenses licensed as part of a group, Licensee shall be responsible for, and shall assign a central administrator the task of, administering the Licenses and installing the Programs, including new versions of the Programs delivered during any paid Software Maintenance Service term.

3.2.3. Network Concurrent User. The Programs may only be installed in a central location on a single designated network server. Licensee must run the License Manager in its Concurrent mode and may have only as many Licensed Users simultaneously operating a Program at any given time as the number of Concurrent keys acquired for that Program. Subject to the foregoing, a Licensed User of the Concurrent License Option may utilize any number of Computers served by a single License Manager provided that, before using a Program on any Computer, the Licensed User checks out a separate Concurrent key from the License Manager for that Computer. Portions of the Programs may be installed on university-owned or controlled individual Computers to accelerate startup times, as long as the installations on the individual Computers are controlled by the License Manager on the network server. Licensees of the Concurrent License Option are prohibited from providing Program access to users located outside the country in which the License Manager server is installed.

3.3. MATLAB(R) Distributed Computing Server(TM). Licensees of the MATLAB(R) Distributed Computing Server(TM) Program ("MDCS") are permitted to install and make available Programs, other than any Ineligible Program, on one or more Computers ("Computer Cluster") solely for use through the MDCS, provided that (1) the Programs on the Computer Cluster are controlled by a single License Manager for each MDCS, (2) the number of simultaneous Program sessions does not exceed the number of workers acquired, (3) access to any Program, whether in the MDCS or otherwise, remains limited to those persons who are Licensed Users of such Programs, and the Parallel Computing Toolbox; and (4) access to any Program, including the MDCS, is not made available (i) to any Third Party without the advance written consent of MathWorks, or (ii) to any user outside the country in which the MDCS License Manager is installed.

#### 4. REMOTE AND SHARED OPERATIONS

Subject also to the foregoing:

##### 4.1. Remote Desktop Access:

Using the Microsoft(R) Remote Desktop connection feature or similar technologies:

4.1.1. Named Users may remotely access Programs for which they are licensed.

4.1.2. Network Concurrent Users may remotely access Concurrent Programs served by the License Manager server for the License under which they are operating.

4.1.3. The Licensee of a Designated Computer Activation Type may designate one Licensed User to remotely access the Programs licensed on the Designated Computer for operation on that Designated Computer. Licensee may redesignate such Licensed User, whether temporarily or not, no more than four (4) times per year.

##### 4.2. Shared Access to the Desktop:

4.2.1. A Licensed User may use Microsoft(R) Remote Assistance technology, NetMeeting(R) conferencing software, or similar technologies to share the desktop view of a Program session remotely with another individual for assistive purposes only.

#### THE MATHWORKS, INC. SOFTWARE LICENSE AGREEMENT - Student Version Installation and Use Addendum

This is an Addendum to The MathWorks, Inc. Software License Agreement (the "Agreement"), and the terms and conditions of this Addendum are incorporated therein. Each capitalized term used herein and not defined herein shall have the meaning ascribed to it in the Agreement.

1. **SCOPE.** The provisions of this Student Installation and Use Addendum apply to the MATLAB(R) and Simulink(R) Student Version Programs and to any other Programs licensed under the Agreement at prices offered to students enrolled in degree-granting educational institutions ("Student prices"). This Addendum imposes certain additional obligations and restrictions with respect to the Programs licensed at such Student prices that are not contained in the Agreement. In the event of a conflict between the provisions of this Addendum and the Agreement, these Addendum provisions shall apply. The license provided for in this Addendum is referred to as a "Student License".
2. **RETURNS AND REFUNDS.** Returns and refunds of Student License purchases are subject to the refund policies at the time and point of purchase.
3. **REGISTRATION AND ACTIVATION.** The Programs contain technology for the prevention of unlicensed or illegal use of the Programs. Licensee agrees to the use and application of such technology in the Programs (a) to limit the installation and use of the Programs by Licensee to a finite number of Computers, and (b) to require Licensee's registration of the Student License and activation of the Programs in advance of the use of the Programs (other than for temporary use) as further described in this Addendum and in the Documentation for the Programs.
4. **ELIGIBILITY.** Licensee further agrees to the following eligibility restrictions of the Student License: the Licensee must be a student enrolled in a degree-granting educational institution or participating in a continuing education program at a degree-granting educational institution.
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*
* $Id: getopt.c,v 1.9 2009/02/08 18:02:17 keithmarshall Exp $
*
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* APIs, for inclusion in the MinGW runtime library.
*
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* $Author: keithmarshall $
* $Date: 2009/02/08 18:02:17 $
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/* Address of data segment in memory after it is loaded.
It is up to you to define SEGMENT_SIZE on machines not listed here. */
```

#### COPYRIGHT TEXT:

```
/*-----*/
/*--- Block sorting machinery          ---*/
/*---                                blocksort.c ---*/
/*-----*/
/*--
```

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Julian Seward, Cambridge, UK.

jseward@bzip.org

bzip2/libbzip2 version 1.0 of 21 March 2000

This program is based on (at least) the work of:

Mike Burrows

David Wheeler

Peter Fenwick

Alistair Moffat

Radford Neal

Ian H. Witten

Robert Sedgewick

Jon L. Bentley

For more information on these sources, see the manual.

To get some idea how the block sorting algorithms in this file work, read my paper

On the Performance of BWT Sorting Algorithms  
in Proceedings of the IEEE Data Compression Conference 2000,  
Snowbird, Utah, USA, 27-30 March 2000. The main sort in this  
file implements the algorithm called `cache` in the paper.

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/\* Parse arguments from a string and prepend them to an argv.

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getopt, getopt\_long, and getopt\_long\_only  
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gdtoa: Converting between IEEE floating point numbers and ASCII

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mkdepend : generate dependency information from C/C++ files

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<http://web.archive.org/web/20070616205924/http://www.doc.ic.ac.uk/~np2/software/mkdepend.html>  
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- 2) ./generic/regc\_color.c
- 3) ./generic/regc\_cvec.c
- 4) ./generic/regc\_nfa.c
- 5) ./generic/regerror.c
- 6) ./generic/regguts.h

- 7) ./generic/regfronts.c
- 8) ./generic/regfree.c
- 9) ./generic/regc\_lex.c
- 10) ./generic/regcustom.h
- 11) ./generic/rege\_dfa.c
- 12) ./generic/regcomp.c

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- 4) ./generic/regc\_nfa.c - "One or two things that technically ought to be in here are actually in color.c, thanks to some incestuous relationships in the color chains."
- 6) ./generic/regguts.h - "Environmental customization. It should not (I hope) be necessary to alter the file you are now reading -- regcustom.h should handle it all, given care here and elsewhere."
- 8) ./generic/regfree.c - "You might think that this could be incorporated into regcomp.c, and that would be a reasonable idea... except that this is a generic function (with a generic name), applicable to all compiled Res regardless of the size of their characters, whereas the stuff in regcomp.c gets compiled once per character size."
- 9) ./generic/regc\_lex.c - "scanning macros (know about v)"
- 10) ./generic/regcustom.h - "Headers if any."

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A Bison parser, made by GNU Bison 2.3.

Skeleton implementation for Bison's Yacc-like parsers in C

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C LALR(1) parser skeleton written by Richard Stallman, by simplifying the original so-called "semantic" parser.

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Identify Bison output.

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Note: this file has been altered from the original in a few ways in order to work properly with Tcl.

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This file provides a replacement for the header file "dlfcn.h" on systems where dlfcn.h is missing. Its primary use is for AIX, where Tcl emulates the dl library.





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- 3) ./generic/regc\_cvec.c - "Notes: Only (selected) functions in \_this\_ file should treat chr\* as non-constant."
- 4) ./generic/regc\_nfa.c - "One or two things that technically ought to be in here are actually in color.c, thanks to some incestuous relationships in the color chains."
- 6) ./generic/regguts.h - "Environmental customization. It should not (I hope) be necessary to alter the file you are now reading -- regcustom.h should handle it all, given care here and elsewhere."
- 8) ./generic/regfree.c - "You might think that this could be incorporated into regcomp.c, and that would be a reasonable idea... except that this is a generic function (with a generic name), applicable to all compiled Res regardless of the size of their characters, whereas the stuff in regcomp.c gets compiled once per character size."
- 9) ./generic/regc\_lex.c - "scanning macros (know about v)"
- 10) ./generic/regcustom.h - "Headers if any."

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-----

A Bison parser, made by GNU Bison 2.3.

Skeleton implementation for Bison's Yacc-like parsers in C

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C LALR(1) parser skeleton written by Richard Stallman, by simplifying the original so-called "semantic" parser.

All symbols defined below should begin with yy or YY, to avoid infringing on user name space. This should be done even for local variables, as they might otherwise be expanded by user macros. There are some unavoidable exceptions



within include files to define necessary library symbols; they are noted "INFRINGES ON USER NAME SPACE" below.

Identify Bison output.

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-----

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RCS: @(#) \$Id: tclLoadAix.c,v 1.6 2007/04/16 13:36:36 dkf Exp \$

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-----

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RCS: @(#) \$Id: dlfcn.h,v 1.2 1998/09/14 18:39:44 stanton Exp \$

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```

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## ----- ##
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Summary:

=====

This directory contains the source code for U-Boot, a boot loader for Embedded boards based on PowerPC, ARM, MIPS and several other processors, which can be installed in a boot ROM and used to initialize and test the hardware or to download and run application code.

The development of U-Boot is closely related to Linux: some parts of the source code originate in the Linux source tree, we have some header files in common, and special provision has been made to support booting of Linux images.

Some attention has been paid to make this software easily configurable and extendable. For instance, all monitor commands are implemented with the same call interface, so that it's very easy to add new commands. Also, instead of permanently adding rarely used code (for instance hardware test utilities) to the monitor, you can load and run it dynamically.

Status:

=====

In general, all boards for which a configuration option exists in the Makefile have been tested to some extent and can be considered "working". In fact, many of them are used in production systems.

In case of problems see the CHANGELOG and CREDITS files to find out who contributed the specific port. The MAINTAINERS file lists board maintainers.

Where to get help:

=====

In case you have questions about, problems with or contributions for U-Boot you should send a message to the U-Boot mailing list at <u-boot@lists.denx.de>. There is also an archive of previous traffic on the mailing list - please search the archive before asking FAQ's. Please see <http://lists.denx.de/pipermail/u-boot> and <http://dir.gmane.org/gmane.comp.boot-loaders.u-boot>

Where to get source code:

=====

The U-Boot source code is maintained in the git repository at <git://www.denx.de/git/u-boot.git> ; you can browse it online at <http://www.denx.de/cgi-bin/gitweb.cgi?p=u-boot.git;a=summary>

The "snapshot" links on this page allow you to download tarballs of any version you might be interested in. Official releases are also

available for FTP download from the ftp://ftp.denx.de/pub/u-boot/  
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bzip2/libbzip2 version 1.0 of 21 March 2000

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Mike Burrows  
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Peter Fenwick  
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Although pthreads-win32 makes it possible for applications that use POSIX threads to be ported to Win32 platforms, the broader goal of the project is to encourage the use of open standards, and in particular, to make it just a little easier for developers writing Win32 applications to consider widening the potential market for their products.

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<<<<<<<<xilinx-separator>>>>>>>>>
Version 3.1, 31 March 2009

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<<<<<<<<<xilinx-separator>>>>>>>>>
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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.

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

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

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

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

root function must still compute square roots.)

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

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

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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 copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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

That's all there is to it!

```
<<<<<<<<<xilinx-separator>>>>>>>>>
```

## Version 3, 29 June 2007

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

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

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

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

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

The reason we have a separate public license for some libraries is that

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

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

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

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

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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.

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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.)

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