This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish, or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

If this is software or related documentation that is delivered to the U.S. Government or anyone licensing it on behalf of the U.S. Government, then the following notice is applicable:

U.S. GOVERNMENT END USERS: Oracle programs (including any operating system, integrated software, any programs embedded, installed or activated on delivered hardware, and modifications of such programs) and Oracle computer documentation or other Oracle data delivered to or accessed by U.S. Government end users are “commercial computer software” or “commercial computer software documentation” pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, the use, reproduction, duplication, release, display, disclosure, modification, preparation of derivative works, and/or adaptation of i) Oracle programs (including any operating system, integrated software, any programs embedded, installed or activated on delivered hardware, and modifications of such programs), ii) Oracle computer documentation and/or iii) other Oracle data, is subject to the rights and limitations specified in the license contained in the applicable contract. The terms governing the U.S. Government's use of Oracle cloud services are defined by the applicable contract for such services. No other rights are granted to the U.S. Government.

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate fail-safe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

Intel and Intel Inside are trademarks or registered trademarks of Intel Corporation. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. AMD, Epyc, and the AMD logo are trademarks or registered trademarks of Advanced Micro Devices. UNIX is a registered trademark of The Open Group.

This software or hardware and documentation may provide access to or information about content, products, and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services unless otherwise set forth in an applicable agreement between you and Oracle. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services, except as set forth in an applicable agreement between you and Oracle.
## Contents

### Preface
- Audience v
- Documentation Accessibility v
- Related Documents v
- Conventions v

### 1 Licensing Information
- 1.1 Introduction 1-1
- 1.2 Oracle Database Offerings 1-1
- 1.3 Permitted Features, Options, and Management Packs by Oracle Database Offering 1-3
- 1.4 Oracle Database Options and Their Permitted Features 1-17
- 1.5 Oracle Management Packs and Their Permitted Features 1-25
- 1.6 Checking for Feature, Option, and Management Pack Usage 1-49
- 1.7 Special License Rights 1-50
- 1.8 Restricted Use Licenses 1-55

### 2 Third-Party Notices and/or Licenses
- 2.1 Commercial Software 2-1
- 2.2 Open Source or Other Separately Licensed Software 2-2
- 2.3 Written Offer for Source Code 2-48

### A Open Source Software License Text
- A.1 Apache Batik SVG Toolkit 1.9 License A-1
- A.2 Apache Batik SVG Toolkit 1.10 License A-4
- A.3 Apache Commons Math 3.6.1 License A-22
- A.4 Apache Tomcat 8.5.32 License A-27
- A.5 Apache Tomcat 8.5.39 License A-42
- A.6 Font Awesome 4.5 License A-58
- A.7 GeoNames Data 1.1.11 License A-60
Preface

This Preface contains these topics:

• Audience
• Documentation Accessibility
• Related Documents
• Conventions

Audience

This book is intended for all purchasers of Oracle Database 18c.

Documentation Accessibility

For information about Oracle’s commitment to accessibility, visit the Oracle Accessibility Program website at http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc.

Access to Oracle Support

Oracle customers that have purchased support have access to electronic support through My Oracle Support. For information, visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info or visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs if you are hearing impaired.

Related Documents

For more information, see these Oracle resources:

• Oracle Database New Features Guide for information on the features new to this release of Oracle Database
• Oracle Database licensing guidelines, available at: https://www.oracle.com/assets/databaselicensing-070584.pdf

Conventions

The following text conventions are used in this document:
<table>
<thead>
<tr>
<th>Convention</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>boldface</strong></td>
<td>Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.</td>
</tr>
<tr>
<td>italic</td>
<td>Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.</td>
</tr>
<tr>
<td>monospace</td>
<td>Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.</td>
</tr>
</tbody>
</table>
1 Licensing Information

- Introduction
- Oracle Database Offerings
- Permitted Features, Options, and Management Packs by Oracle Database Offering
- Oracle Database Options and Their Permitted Features
- Oracle Management Packs and Their Permitted Features
- Checking for Feature, Option, and Management Pack Usage
- Special License Rights
- Restricted Use Licenses

1.1 Introduction

This Licensing Information document is a part of the product or program documentation under the terms of your Oracle license agreement and is intended to help you understand the program editions, entitlements, restrictions, prerequisites, special license rights, and/or separately licensed third party technology terms associated with the Oracle software program(s) covered by this document (the "Program(s)"). Entitled or restricted use products or components identified in this document that are not provided with the particular Program may be obtained from the Oracle Software Delivery Cloud website (https://edelivery.oracle.com) or from media Oracle may provide. If you have a question about your license rights and obligations, please contact your Oracle sales representative, review the information provided in Oracle's Software Investment Guide (http://www.oracle.com/us/corporate/pricing/software-investment-guide/index.html), and/or contact the applicable Oracle License Management Services representative listed on http://www.oracle.com/us/corporate/license-management-services/index.html.

1.2 Oracle Database Offerings

<table>
<thead>
<tr>
<th>Oracle Database Offering</th>
<th>Offering Type</th>
<th>Abbreviated Name Used in this Guide</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oracle Database Offering</td>
<td>Offering Type</td>
<td>Abbreviated Name Used in this Guide</td>
<td>Description</td>
</tr>
<tr>
<td>-----------------------------------------------</td>
<td>--------------------</td>
<td>-------------------------------------</td>
<td>----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Oracle Database Enterprise Edition</td>
<td>On-Premise</td>
<td>EE</td>
<td>Oracle Database Enterprise Edition provides performance, availability, scalability, and security for developing applications such as high-volume online transaction processing (OLTP) applications, query-intensive data warehouses, and demanding Internet applications. Oracle Database Enterprise Edition can be enhanced with the purchase of Oracle Database options and Oracle management packs.</td>
</tr>
<tr>
<td>Oracle Database Enterprise Edition on Engineered Systems</td>
<td>On-Premise</td>
<td>EE-ES</td>
<td>Oracle Database Enterprise Edition software installed on an on-premise engineered system (Oracle Exadata Database Machine or Oracle Database Appliance). Includes all of the components of Oracle Database. You can further enhance this offering with the purchase of Oracle Database options and Oracle management packs. The licensing policies for EE-ES vary depending on whether it is installed on Oracle Exadata Database Machine or Oracle Database Appliance. Be sure to make note of these differences, which are documented in the subsequent sections of this guide.</td>
</tr>
<tr>
<td>Oracle Database Personal Edition</td>
<td>On-Premise</td>
<td>PE</td>
<td>Oracle Database Personal Edition supports single-user development and deployment environments that require full compatibility with Oracle Database Standard Edition 2 and Oracle Database Enterprise Edition. Includes all of the components that are included with Enterprise Edition, as well as all Oracle Database options, with the exception of the Oracle RAC One Node and Oracle Real Application Clusters options, which cannot be used with Personal Edition. Personal Edition is available on Linux and Windows platforms only. Oracle management packs cannot be used with Personal Edition.</td>
</tr>
</tbody>
</table>
Table 1-1  (Cont.) Oracle Database Offerings

<table>
<thead>
<tr>
<th>Oracle Database Offering</th>
<th>Offering Type</th>
<th>Abbreviated Name Used in this Guide</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oracle Database Exadata Cloud Service</td>
<td>Cloud</td>
<td>ExaCS</td>
<td>Includes Oracle Database Enterprise Edition software plus all Oracle Database options and Oracle management packs that are appropriate for use in Oracle Database Exadata Cloud Service. The licensing policies for ExaCS also apply to Oracle Database Exadata Cloud at Customer.</td>
</tr>
</tbody>
</table>

See Also:
- Oracle Database Options and Their Permitted Features
- Oracle Management Packs and Their Permitted Features

1.3 Permitted Features, Options, and Management Packs by Oracle Database Offering

The tables in this section list Oracle Database features, Oracle Database options, and Oracle management packs, and their availability for each Oracle Database offering. The Y value in a column means that the feature, option, or pack is available for a particular offering; N means that it is unavailable; N/A means that it is not applicable. These tables can help you understand the difference between Oracle Database offerings to determine which one is right for you.

The tables are organized into the following functional categories:
- Consolidation - Table 1-2
- Development Platform - Table 1-3
- High Availability - Table 1-4
- Integration - Table 1-5
- Manageability - Table 1-6
- Networking - Table 1-7
- Performance - Table 1-8
- Scalability - Table 1-9
- Security - Table 1-10
- Snapshots and Cloning - Table 1-11
- Spatial and Graph Data - Table 1-12
- VLDB, Data Warehousing, and Business Intelligence - Table 1-13
Table 1-2  Consolidation

<table>
<thead>
<tr>
<th>Feature / Option / Pack</th>
<th>SE2</th>
<th>EE</th>
<th>EE-ES</th>
<th>DBCS SE</th>
<th>DBCS EE</th>
<th>DBCS EE-HP</th>
<th>DBCS EE-EP</th>
<th>ExaCS</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oracle Multitenant - # of PDBs</td>
<td>1</td>
<td>252</td>
<td>4096</td>
<td>1</td>
<td>1</td>
<td>4096</td>
<td>4096</td>
<td>4096</td>
<td>The number value in each column indicates the maximum number of pluggable databases (PDBs) that can be created for each offering.</td>
</tr>
</tbody>
</table>

- For all offerings, if you are not licensed for Oracle Multitenant, then the container database architecture is available in single-tenant mode, that is, with one user-created PDB, one user-created application root, and one user-created proxy PDB.
- **EE**: Extra cost option; if you are licensed for Oracle Multitenant, then you can create up to 252 PDBs.
- **EE-ES**: Extra cost option; if you are licensed for Oracle Multitenant, then you can create up to 4096 PDBs.
- **DBCS EE-HP, DBCS EE-EP, and ExaCS**: Included option; you can create up to 4096 PDBs.

**Note:** For licensing purposes, one non-CDB instance is equivalent to one user-created PDB inside one CDB.

<table>
<thead>
<tr>
<th>CDB Fleet Management</th>
<th>N</th>
<th>N</th>
<th>Y</th>
<th>N</th>
<th>Y</th>
<th>Y</th>
<th>Y</th>
<th>Y</th>
</tr>
</thead>
<tbody>
<tr>
<td>PDB Snapshot Carousel</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>Refreshable PDB switchover</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
</tr>
</tbody>
</table>
Table 1-3  Development Platform

<table>
<thead>
<tr>
<th>Feature / Option / Pack</th>
<th>SE2</th>
<th>EE</th>
<th>EE-ES</th>
<th>DBCS SE</th>
<th>DBCS EE</th>
<th>DBCS EE-HP</th>
<th>DBCS EE-EP</th>
<th>ExaCS</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>SQLJ</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Requires Oracle Programmer</td>
</tr>
<tr>
<td>Oracle Developer Tools for Visual Studio .NET</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>Y/A</td>
<td>Windows only</td>
</tr>
<tr>
<td>Microsoft Distributed Transaction Coordinator support</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>Windows only</td>
</tr>
<tr>
<td>Native .NET Data Provider—ODP.NET</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>Windows only</td>
</tr>
<tr>
<td>.NET Stored Procedures</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>Windows only</td>
</tr>
</tbody>
</table>

Table 1-4  High Availability

<table>
<thead>
<tr>
<th>Feature / Option / Pack</th>
<th>SE2</th>
<th>EE</th>
<th>EE-ES</th>
<th>DBCS SE</th>
<th>DBCS EE</th>
<th>DBCS EE-HP</th>
<th>DBCS EE-EP</th>
<th>ExaCS</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application Continuity</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>EE and EE-ES: Requires the Oracle Active Data Guard option or the Oracle Real Application Clusters option</td>
</tr>
<tr>
<td>Oracle Sharding</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>EE and EE-ES: No limit on the number of either primary shards or standby shards if every shard has an Oracle Active Data Guard, Oracle GoldenGate, or Oracle RAC license. Without an Oracle Active Data Guard, Oracle GoldenGate, or Oracle RAC license, use is limited to three primary shards, with basic Data Guard standbys. Authorized Cloud Environments, DBCS EE, and DBCS EE-HP: Use is limited to three primary shards; there is no limit on the number of standby shards. DBCS EE-EP and ExaCS: No limit on the number of either primary shards or standby shards.</td>
</tr>
<tr>
<td>Oracle Fail Safe</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>Y/A</td>
<td>Windows only</td>
</tr>
<tr>
<td>Oracle RAC One Node</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>EE and EE-ES: Extra cost option</td>
</tr>
</tbody>
</table>
Table 1-4  (Cont.) High Availability

<table>
<thead>
<tr>
<th>Feature / Option / Pack</th>
<th>SE2</th>
<th>EE</th>
<th>EE-ES</th>
<th>DBCS</th>
<th>EE</th>
<th>EE-HP</th>
<th>DBCS</th>
<th>EE-EP</th>
<th>ExaCS</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oracle Data Guard —Redo Apply</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oracle Data Guard —Far Sync Standby</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td></td>
<td><strong>EE and EE-ES:</strong> Requires the Oracle Active Data Guard option</td>
</tr>
<tr>
<td>Oracle Data Guard —SQL Apply</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oracle Data Guard —Snapshot Standby</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oracle Data Guard—Real-Time Cascading Standbys</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td><strong>EE and EE-ES:</strong> Requires the Oracle Active Data Guard option</td>
</tr>
<tr>
<td>Oracle Data Guard—Automatic Correction of Non-logged Blocks at a Data Guard Standby Database</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td></td>
<td><strong>EE-ES:</strong> Requires the Oracle Active Data Guard option</td>
</tr>
<tr>
<td>Oracle Active Data Guard</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td></td>
<td><strong>EE and EE-ES:</strong> Extra cost option</td>
</tr>
<tr>
<td>Rolling Upgrades —Patch Set, Database, and Operating System</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rolling Upgrade Using Active Data Guard</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td></td>
<td><strong>EE and EE-ES:</strong> Requires the Oracle Active Data Guard option</td>
</tr>
<tr>
<td>Online index rebuild</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Online table organization</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td></td>
<td><strong>ALTER TABLE ... MOVE ONLINE operations</strong></td>
</tr>
<tr>
<td>Online table redefinition</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td></td>
<td><strong>Using the DBMS_REDEFINITION package</strong></td>
</tr>
<tr>
<td>Duplexed backup sets</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Block change tracking for fast incremental backup</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unused block compression in backups</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Block-level media recovery</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lost Write Protection</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Table 1-4  (Cont.) High Availability

<table>
<thead>
<tr>
<th>Feature / Option / Pack</th>
<th>SE2</th>
<th>EE</th>
<th>EE-ES</th>
<th>DBCS SE</th>
<th>DBCS EE</th>
<th>DBCS EE-HP</th>
<th>DBCS EE-EP</th>
<th>ExaCS</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Automatic Block Repair</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>EE and EE-ES: Requires the Oracle Active Data Guard option</td>
</tr>
<tr>
<td>Parallel backup and recovery</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Tablespace point-in-time recovery</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Trial recovery</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Fast-start fault recovery</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Flashback Table</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Flashback Database</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Flashback Transaction</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Flashback Transaction Query</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Optimization for Flashback Data Archive</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Basic Flashback Data Archive is in all offerings EE and EE-ES: Optimization for Flashback Data Archive requires the Oracle Advanced Compression option</td>
</tr>
<tr>
<td>Online Datafile Move</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Transaction Guard</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Cross-platform Backup and Recovery</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Global Data Services</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>EE and EE-ES: Requires the Oracle Active Data Guard option</td>
</tr>
<tr>
<td>Recovering tables and table partitions from RMAN backups</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td></td>
</tr>
</tbody>
</table>

### Table 1-5  Integration

<table>
<thead>
<tr>
<th>Feature / Option / Pack</th>
<th>SE2</th>
<th>EE</th>
<th>EE-ES</th>
<th>DBCS SE</th>
<th>DBCS EE</th>
<th>DBCS EE-HP</th>
<th>DBCS EE-EP</th>
<th>ExaCS</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oracle Streams</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>SE2 and DBCS SE: no capture from redo</td>
</tr>
</tbody>
</table>
### Table 1-5  (Cont.) Integration

<table>
<thead>
<tr>
<th>Feature / Option / Pack</th>
<th>SE2</th>
<th>EE</th>
<th>EE-ES</th>
<th>DBCS SE</th>
<th>DBCS EE</th>
<th>DBCS EE-HP</th>
<th>DBCS EE-EP</th>
<th>ExaCS</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Database Gateways</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Database Gateway for ODBC is included in all offerings. All other Database Gateway products are available for all offerings, but require a separate product license.</td>
</tr>
<tr>
<td>Messaging Gateway</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Sharded Queues</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>EE and EE-ES: Requires the Oracle Partitioning option</td>
</tr>
</tbody>
</table>

### Table 1-6  Manageability

<table>
<thead>
<tr>
<th>Feature / Option / Pack</th>
<th>SE2</th>
<th>EE</th>
<th>EE-ES</th>
<th>DBCS SE</th>
<th>DBCS EE</th>
<th>DBCS EE-HP</th>
<th>DBCS EE-EP</th>
<th>ExaCS</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oracle Cloud Management Pack for Oracle Database</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>EE and EE-ES: Extra cost option</td>
<td></td>
</tr>
<tr>
<td>Oracle Data Masking and Subsetting Pack</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>EE and EE-ES: Extra cost option</td>
<td></td>
</tr>
<tr>
<td>Oracle Database Lifecycle Management Pack for Oracle Database</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>EE and EE-ES: Extra cost option</td>
<td></td>
</tr>
<tr>
<td>Oracle Diagnostics Pack</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>EE and EE-ES: Extra cost option</td>
<td></td>
</tr>
<tr>
<td>Oracle Tuning Pack</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>EE and EE-ES: Extra cost option, also requires Oracle Diagnostics Pack</td>
<td></td>
</tr>
<tr>
<td>Oracle Real Application Testing</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>EE and EE-ES: Extra cost option</td>
<td></td>
</tr>
<tr>
<td>Database Resource Manager</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td></td>
<td></td>
</tr>
<tr>
<td>I/O Resource Management</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>Y</td>
</tr>
<tr>
<td>Instance Caging</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Feature / Option / Pack</td>
<td>SE2</td>
<td>EE</td>
<td>EE-ES</td>
<td>DBCS SE</td>
<td>DBCS EE</td>
<td>DBCS EE-HP</td>
<td>DBCS EE-EP</td>
<td>ExaCS</td>
<td>Notes</td>
</tr>
<tr>
<td>--------------------------------</td>
<td>-----</td>
<td>----</td>
<td>-------</td>
<td>---------</td>
<td>---------</td>
<td>------------</td>
<td>------------</td>
<td>-------</td>
<td>-------</td>
</tr>
<tr>
<td>SQL Plan Management</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td></td>
<td>(See Notes)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SQL Plan Management does not require a license for Oracle Diagnostics Pack or Oracle Tuning Pack.

**SE2 and DBCS SE Summary:** Only one SQL plan baseline per SQL statement is allowed and SQL plan evolution is disabled.

**SE2 and DBCS SE Details:**

1. SQL plan baselines can be created or captured using the following methods:
   - Auto capture
     (OPTIMIZER_CATCH_SQL_PLAN_BASELINE=TRUE)
   - Manual loading from the cursor cache
     (DBMS_SPM LOAD PLANS FROM CURSOR CACHE)
   - Migration from stored outlines
     (DBMS_SPM MIGRATE_STORED_OUTLINE)
   - Import using
     DBMS_SPM UNPACK STGTAB_BASELINE

2. All capture and creation methods store only one SQL plan baseline per SQL statement.

3. SQL plan baselines can be exported and imported using
   DBMS_SPM CREATE STGTAB_BASELINE,
   DBMS_SPM PACK STGTAB_BASELINE, and
   DBMS_SPM UNPACK STGTAB_BASELINE.

4. Unused SQL plan baselines are not auto-purged.
### Table 1-6  (Cont.) Manageability

<table>
<thead>
<tr>
<th>Feature / Option / Pack</th>
<th>SE2</th>
<th>EE</th>
<th>EE-ES</th>
<th>DBCS</th>
<th>DBCS SE</th>
<th>DBCS EE</th>
<th>DBCS EE-HP</th>
<th>ExaCS</th>
<th>Notes</th>
</tr>
</thead>
</table>

5. Alternative SQL execution plans for SQL statements are not added to the SQL plan history.

6. SQL plan baselines can be altered and dropped (DBMS_SPM.ALTER_SQL_PLAN_BASELINE and DBMS_SPM.DROP_SQL_PLAN_BASELINE).

7. The following DBMS_SPM functions and procedures are not allowed: CONFIGURE, LOAD_PLANS_FROM_AWR, LOAD_PLANS_FROM_SQLSET, and all functions and procedures associated with SQL plan evolution.
Table 1-6  (Cont.) Manageability

<table>
<thead>
<tr>
<th>Feature / Option / Pack</th>
<th>SE2</th>
<th>EE</th>
<th>EE-ES</th>
<th>DBCS SE</th>
<th>DBCS EE</th>
<th>DBCS EE-HP</th>
<th>DBCS EE-EP</th>
<th>ExaCS</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>SQL Tuning Sets</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td><strong>EE</strong> and <strong>EE-ES:</strong> SQL Tuning Sets can also be accessed by way of database server APIs and command-line interfaces. Usage of any subprograms in the DBMS_SQLSET package to manage SQL Tuning Sets is part of the <strong>EE</strong> and <strong>EE-ES</strong> offerings. In addition, the following subprograms, part of the DBMS_SQLTUNE package, provide an older interface to manage SQL Tuning Sets and are also part of the EE and EE-ES offerings: ADD_SQLSETREFERENCE, CAPTURE_CURSOR_CACHE_SQLSET, CREATE_SQLSET, CREATE_STGTAB_SQLSET, DELETE_SQLSET, DROP_SQLSET, LOAD_SQLSET, PACK_STGTAB_SQLSET, REMOVE_SQLSETREFERENCE, SELECT_CURSOR_CACHE, SELECT_SQLSET, SELECT_WORKLOAD_REPOSITORY, UNPACK_STGTAB_SQLSET, UPDATE_SQLSET.</td>
</tr>
</tbody>
</table>

| Oracle Fleet Patching and Provisioning (formerly Rapid Home Provisioning) | N | Y | Y | N/A | N/A | N/A | N/A | | **EE** and **EE-ES:** When deployed across multiple clusters, each FPP-managed target must be licensed for one of the following: Oracle Database Lifecycle Management Pack, Oracle RAC, or Oracle RAC One Node |

Table 1-7  Networking

<table>
<thead>
<tr>
<th>Feature / Option / Pack</th>
<th>SE2</th>
<th>EE</th>
<th>EE-ES</th>
<th>DBCS SE</th>
<th>DBCS EE</th>
<th>DBCS EE-HP</th>
<th>DBCS EE-EP</th>
<th>ExaCS</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infiniband Support</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td></td>
</tr>
</tbody>
</table>
### Table 1-7  (Cont.) Networking

<table>
<thead>
<tr>
<th>Feature / Option / Pack</th>
<th>SE2</th>
<th>EE</th>
<th>EE-ES</th>
<th>DBCS</th>
<th>SE</th>
<th>DBCS</th>
<th>EE</th>
<th>DBCS</th>
<th>EE-HP</th>
<th>DBCS</th>
<th>EE-EP</th>
<th>ExaCS</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oracle Connection Manager</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td></td>
<td></td>
<td>Available via a custom install of the Oracle Database client, usually installed on a separate machine or compute instance</td>
</tr>
<tr>
<td>Network Compression</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td></td>
<td></td>
<td>EE and EE-ES: Requires the Oracle Advanced Compression option</td>
<td></td>
</tr>
</tbody>
</table>

### Table 1-8  Performance

<table>
<thead>
<tr>
<th>Feature / Option / Pack</th>
<th>SE2</th>
<th>EE</th>
<th>EE-ES</th>
<th>DBCS</th>
<th>SE</th>
<th>DBCS</th>
<th>EE</th>
<th>DBCS</th>
<th>EE-HP</th>
<th>DBCS</th>
<th>EE-EP</th>
<th>ExaCS</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Client Side Query Cache</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Query Results Cache</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PL/SQL Function Result Cache</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oracle TimesTen Application-Tier Database Cache</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td></td>
<td></td>
<td>EE and EE-ES: Extra cost option</td>
<td></td>
</tr>
<tr>
<td>Database Smart Flash Cache</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
<td></td>
<td>EE: Solaris and Oracle Linux only</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>EE-ES: Available on Oracle Database Appliance. Not available on Exadata</td>
<td></td>
</tr>
<tr>
<td>Support for Oracle Exadata Storage Server Software</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td></td>
<td></td>
<td>EE-ES: Available on Exadata. Not available on Oracle Database Appliance.</td>
<td></td>
</tr>
<tr>
<td>Adaptive Execution Plans</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Concurrent Execution of UNION and UNION ALL Branches</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oracle Database In-Memory</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td></td>
<td>EE and EE-ES: Extra cost option</td>
<td></td>
</tr>
<tr>
<td>In-Memory Column Cache on Storage Servers</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td></td>
<td>EE-ES: Available on Exadata and requires the Oracle Database In-Memory option. Not available on Oracle Database Appliance. Requires Exadata, Supercluster, or Exadata Cloud Service.</td>
<td></td>
</tr>
</tbody>
</table>
### Table 1-8  (Cont.) Performance

<table>
<thead>
<tr>
<th>Feature / Option / Pack</th>
<th>SE2</th>
<th>EE</th>
<th>EE-ES</th>
<th>DBCS SE</th>
<th>DBCS EE</th>
<th>DBCS EE-HP</th>
<th>DBCS EE-EP</th>
<th>ExaCS</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>In-Memory Column Store on Active Data Guard standby</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td><strong>EE-ES</strong>: Available on Exadata and requires the Oracle Database In-Memory option and the Oracle Active Data Guard option. Not available on Oracle Database Appliance.</td>
</tr>
<tr>
<td>Fault Tolerant In-Memory Column Store</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td><strong>EE-ES</strong>: Available on Exadata and Infiniband-based Oracle Database Appliance. Requires the Oracle Database In-Memory option and the Oracle Real Application Clusters option.</td>
</tr>
<tr>
<td>Automatic In-Memory</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td><strong>EE-ES</strong>: Requires the Oracle Database In-Memory option</td>
</tr>
<tr>
<td>In-Memory Column Store support for External Tables</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td><strong>EE-ES</strong>: Available on Exadata. Not available on Oracle Database Appliance.</td>
</tr>
<tr>
<td>In-Memory Aggregation</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td><strong>EE and EE-ES</strong>: Requires the Oracle Database In-Memory option</td>
</tr>
<tr>
<td>Memoptimized Rowstore</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td><strong>EE-ES</strong>: Available on Exadata. Not available on Oracle Database Appliance.</td>
</tr>
<tr>
<td>Attribute Clustering</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td><strong>EE-ES</strong>: Available on Exadata and requires the Oracle Partitioning option. Not available on Oracle Database Appliance.</td>
</tr>
<tr>
<td>Zone Maps</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td><strong>EE-ES</strong>: Available on Exadata and requires the Oracle Partitioning option. Not available on Oracle Database Appliance.</td>
</tr>
</tbody>
</table>

### Table 1-9  Scalability

<table>
<thead>
<tr>
<th>Feature / Option / Pack</th>
<th>SE2</th>
<th>EE</th>
<th>EE-ES</th>
<th>DBCS SE</th>
<th>DBCS EE</th>
<th>DBCS EE-HP</th>
<th>DBCS EE-EP</th>
<th>ExaCS</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oracle Real Application Clusters (Oracle RAC)</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td><strong>EE and EE-ES</strong>: Extra cost option</td>
</tr>
<tr>
<td>Automatic Workload Management</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td><strong>EE and EE-ES</strong>: Requires the Oracle Real Application Clusters option</td>
</tr>
<tr>
<td>Quality of Service Management</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td><strong>EE and EE-ES</strong>: Requires the Oracle Real Application Clusters option</td>
</tr>
</tbody>
</table>
### Table 1-9  (Cont.) Scalability

<table>
<thead>
<tr>
<th>Feature / Option / Pack</th>
<th>SE2</th>
<th>EE</th>
<th>EE-ES</th>
<th>DBCS SE</th>
<th>DBCS EE</th>
<th>DBCS EE-HP</th>
<th>DBCS EE-EP</th>
<th>ExaCS</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oracle NoSQL Database Enterprise Edition</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
</tr>
</tbody>
</table>

### Table 1-10  Security

<table>
<thead>
<tr>
<th>Feature / Option / Pack</th>
<th>SE2</th>
<th>EE</th>
<th>EE-ES</th>
<th>DBCS SE</th>
<th>DBCS EE</th>
<th>DBCS EE-HP</th>
<th>DBCS EE-EP</th>
<th>ExaCS</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Column-Level Encryption</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>EE and EE-ES: Requires the Oracle Advanced Security option</td>
</tr>
<tr>
<td>Tablespace Encryption</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>EE and EE-ES: Requires the Oracle Advanced Security option</td>
</tr>
<tr>
<td>Oracle Advanced Security</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>EE and EE-ES: Extra cost option</td>
</tr>
<tr>
<td>Oracle Database Vault</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>EE and EE-ES: Extra cost option</td>
</tr>
<tr>
<td>Oracle Label Security</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>EE and EE-ES: Extra cost option</td>
</tr>
<tr>
<td>Centrally Managed Users</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>EE, EE-ES, DBCS EE, DBCS EE-HP, DBCS EE-EP, and ExaCS: Centrally Managed Users is a feature for centrally authenticating and authorizing database users with Microsoft Active Directory.</td>
</tr>
<tr>
<td>Fine-grained Auditing</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Privilege Analysis</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Real Application Security</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Redaction</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>EE and EE-ES: Requires the Oracle Advanced Security option</td>
</tr>
</tbody>
</table>
### Table 1-10  (Cont.) Security

<table>
<thead>
<tr>
<th>Feature / Option / Pack</th>
<th>SE2</th>
<th>EE</th>
<th>EE-ES</th>
<th>DBCS SE</th>
<th>DBCS EE</th>
<th>DBCS EE-HP</th>
<th>DBCS EE-EP</th>
<th>ExaCS</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transparent Sensitive Data Protection</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Virtual Private Database</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Keystore for Each Pluggable Database</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td></td>
</tr>
</tbody>
</table>

### Table 1-11  Snapshots and Cloning

<table>
<thead>
<tr>
<th>Feature / Option / Pack</th>
<th>SE2</th>
<th>EE</th>
<th>EE-ES</th>
<th>DBCS SE</th>
<th>DBCS EE</th>
<th>DBCS EE-HP</th>
<th>DBCS EE-EP</th>
<th>ExaCS</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage Snapshot Optimization</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
<td>EE and EE-ES: Requires</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>the Oracle Advanced</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Compression option</td>
</tr>
</tbody>
</table>

### Table 1-12  Spatial and Graph Data

<table>
<thead>
<tr>
<th>Feature / Option / Pack</th>
<th>SE2</th>
<th>EE</th>
<th>EE-ES</th>
<th>DBCS SE</th>
<th>DBCS EE</th>
<th>DBCS EE-HP</th>
<th>DBCS EE-EP</th>
<th>ExaCS</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oracle Spatial and Graph</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td></td>
<td>Oracle Spatial and Graph no longer requires an extra cost license.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>See <a href="https://blogs.oracle.com/">Oracle Database Insider blog post</a> for more information.</td>
</tr>
<tr>
<td>Property Graph and RDF Graph Technologies (RDF/OWL)</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td></td>
<td>Property Graph and RDF Graph Technologies (RDF/OWL) no longer requires</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>an extra cost license.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>See <a href="https://blogs.oracle.com/">Oracle Database Insider blog post</a> for more information.</td>
</tr>
<tr>
<td>Parallel spatial index builds</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td></td>
<td>EE and EE-ES:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Single master/materialized view replication for SDO_GEOMETRY objects is supported</td>
</tr>
<tr>
<td>Multimaster replication of SDO_GEOMETRY objects</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Partitioned spatial indexes</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td></td>
<td>EE and EE-ES: Requires the Oracle Partitioning option</td>
</tr>
</tbody>
</table>
Table 1-13  VLDB, Data Warehousing, and Business Intelligence

<table>
<thead>
<tr>
<th>Feature / Option / Pack</th>
<th>SE2</th>
<th>EE</th>
<th>EE-ES</th>
<th>DBCS SE</th>
<th>DBCS EE</th>
<th>DBCS EE-HP</th>
<th>DBCS EE-EP</th>
<th>ExaCS</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oracle Partitioning</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td><strong>EE and EE-ES:</strong> Extra cost option</td>
</tr>
<tr>
<td>Oracle On-Line Analytical Processing (OLAP)</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td><strong>EE and EE-ES:</strong> Extra cost option</td>
</tr>
<tr>
<td>Oracle Machine Learning (formerly Advanced Analytics)</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Oracle Machine Learning no longer requires an extra cost license. See <a href="https://oraclenumbers.Oracle.com/blog">Oracle Database Insider blog post</a> for more information.</td>
</tr>
<tr>
<td>Oracle Advanced Compression</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td><strong>EE and EE-ES:</strong> Extra cost option</td>
</tr>
<tr>
<td>Advanced Index Compression</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td><strong>EE and EE-ES:</strong> Requires the Oracle Advanced Compression option</td>
</tr>
<tr>
<td>Prefix Compression (also called Key Compression)</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td><strong>EE:</strong> Requires ZFS, Axiom, or FS1 storage</td>
</tr>
<tr>
<td>Hybrid Columnar Compression</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td><strong>EE:</strong> Requires ZFS or FS1 storage, and the Oracle Advanced Compression option <strong>EE-ES:</strong> Requires the Oracle Advanced Compression option</td>
</tr>
<tr>
<td>Hybrid Columnar Compression Row-Level Locking</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td><strong>EE-ES:</strong> Requires the Oracle Advanced Compression option</td>
</tr>
<tr>
<td>Exadata Flash Cache Compression</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td><strong>EE-ES:</strong> Available on Exadata and requires the Oracle Advanced Compression option. Not available on Oracle Database Appliance.</td>
</tr>
<tr>
<td>Heat Map</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td><strong>EE and EE-ES:</strong> Requires the Oracle Advanced Compression option or the Oracle Database In-Memory option</td>
</tr>
<tr>
<td>Automatic Data Optimization</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td><strong>EE and EE-ES:</strong> Requires the Oracle Advanced Compression option or the Oracle Database In-Memory option</td>
</tr>
<tr>
<td>Basic Table Compression</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Deferred Segment Creation</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td></td>
</tr>
</tbody>
</table>
### Table 1-13 (Cont.) VLDB, Data Warehousing, and Business Intelligence

<table>
<thead>
<tr>
<th>Feature / Option / Pack</th>
<th>SE2</th>
<th>EE</th>
<th>EE-ES</th>
<th>DBCS SE</th>
<th>DBCS EE</th>
<th>DBCS EE-HP</th>
<th>DBCS EE-EP</th>
<th>ExaCS</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bitmapped index, bitmapped join index, and bitmap plan conversions</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Parallel query/DML</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Parallel statistics gathering</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Parallel index build/scans</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Parallel Data Pump Export/Import</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>In-Memory Parallel Execution</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Parallel Statement Queuing</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Parallel capture and apply via XStream</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Transportable tablespaces, including cross-platform and full transportable export and import</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Import of transportable tablespaces supported into SE2</td>
</tr>
<tr>
<td>Summary management—Materialized View Query Rewrite</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td></td>
</tr>
</tbody>
</table>

1.4 Oracle Database Options and Their Permitted Features

Table 1-14 lists Oracle Database options, the Oracle Database offerings for which each option is available, and the features that are included with each option. You must be licensed for an option in order to use any of its features.
Table 1-14  Oracle Database Options and Their Permitted Features

<table>
<thead>
<tr>
<th>Option</th>
<th>Availability</th>
<th>Included Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oracle Active Data Guard</td>
<td>Extra cost option: EE, EE-ES  &lt;br&gt; Included option: PE, DBCS EE-EP, ExaCS</td>
<td>Oracle Active Data Guard includes the following features:  &lt;br&gt; • Physical Standby with Real-time Query  &lt;br&gt; • Fast Incremental Backup on Physical Standby  &lt;br&gt; • Automatic Block Repair  &lt;br&gt; • Active Data Guard Far Sync  &lt;br&gt; • Global Data Services  &lt;br&gt; • Real-Time Cascade  &lt;br&gt; • Application Continuity  &lt;br&gt; • Rolling Upgrade using Active Data Guard  &lt;br&gt; • Active Data Guard DML Redirection  &lt;br&gt; In an Oracle Data Guard configuration:  &lt;br&gt; • Oracle Active Data Guard must be licensed on any standby databases with any of the above features in use, as well as the primary database. If there are additional standby databases in the Oracle Data Guard configuration that are not using any of the Oracle Active Data Guard features, those standby databases do not require an Oracle Active Data Guard license.  &lt;br&gt; <strong>Note:</strong> For customers who back up standby databases to Zero Data Loss Recovery Appliance (ZDLRA) and wish to use the Fast Incremental Backup on Physical Standby or Real-Time Cascade feature, an Oracle Active Data Guard license is not required. Oracle Active Data Guard must still be licensed on standby databases, if any other of the above features are in use.  &lt;br&gt; • The container root (CDB$Root) of the standby database may be opened read-only without requiring an Oracle Active Data Guard license. An Oracle Active Data Guard license is only required if any of the pluggable databases in the standby is opened for read.</td>
</tr>
</tbody>
</table>
Table 1-14  (Cont.) Oracle Database Options and Their Permitted Features

<table>
<thead>
<tr>
<th>Option</th>
<th>Availability</th>
<th>Included Features</th>
</tr>
</thead>
</table>
| **Oracle Advanced Compression** | Extra cost option: **EE**, **EE-ES**  
Included option: **PE**, **DBCS EE-HP**, **DBCS EE-EP**, **ExaCS** | Oracle Advanced Compression includes the following features:  
  - Advanced Row Compression  
  - Advanced LOB Compression  
  - Advanced LOB Deduplication  
  - RMAN Backup Compression (*RMAN DEFAULT COMPRESS does not require the Oracle Advanced Compression option*)  
  - Data Pump Export Data Compression (*COMPRESSION=METADATA_ONLY does not require the Oracle Advanced Compression option*)  
  - Heat Map  
  - Automatic Data Optimization  
  - Data Guard Redo Transport Compression  
  - Advanced Network Compression  
  - Optimization for Flashback Data Archive History Tables  
  - Storage Snapshot Optimization  
  - Online Move Partition (to any compressed format)  
  - Exadata Flash Cache Compression (This feature can be enabled only on Exadata storage servers, and all database processors that access the Exadata storage servers must be licensed for Oracle Advanced Compression.)  
  - Advanced Index Compression  
  - Hybrid Columnar Compression Row-Level Locking (Requires Exadata, Oracle Database Appliance, Supercluster, ZFS, or FS1 storage) |
| **Oracle Advanced Security** | Extra cost option: **EE**, **EE-ES**  
Included option: **PE**, **DBCS EE-HP**, **DBCS EE-EP**, **ExaCS** | Oracle Advanced Security includes the following features:  
  - Transparent Data Encryption (TDE) for tablespaces and columns (including Oracle SecureFiles)  
  - DataPump Export File encryption  
  - RMAN backup encryption to disk  
  - Encrypted Database File System (DBFS)  
  - Data Redaction of sensitive data returned to applications (Full, Partial, Regular Expression, and Random techniques)  
Oracle Advanced Security includes a restricted use license for certain Oracle Enterprise Manager features. Refer to **Oracle Advanced Security** in "Restricted Use Licenses" for more information.  
**Note:** Network encryption (native network encryption, network data integrity, and SSL/TLS) and strong authentication services (Kerberos, PKI, and RADIUS) are no longer part of Oracle Advanced Security and are available in all licensed editions of all supported releases of Oracle Database.
### Table 1-14 (Cont.) Oracle Database Options and Their Permitted Features

<table>
<thead>
<tr>
<th>Option</th>
<th>Availability</th>
<th>Included Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oracle Database In-Memory</td>
<td>Extra cost option: EE, EE-ES</td>
<td></td>
</tr>
</tbody>
</table>
|                         | Included option: PE, DBCS EE-EP, ExaCS | Oracle Database In-Memory includes the following features:  
• In-Memory Column Store  
• In-Memory Column Cache on Storage Servers (Requires Exadata, Supercluster, or Exadata Cloud Service)  
• Fault Tolerant In-Memory Column Store (Requires Exadata, Supercluster, Oracle Database Appliance, or Exadata Cloud Service)  
• In-Memory Aggregation  
• Heat Map  
• Automatic Data Optimization |
| Oracle Database Vault    | Extra cost option: EE, EE-ES  |
|                         | Included option: PE, DBCS EE-HP, DBCS EE-EP, ExaCS | Oracle Database Vault includes the following features:  
• Separation of Duties  
• Realms  
• Command Rules  
• Trusted Paths  
Oracle Database Vault includes special license rights for Oracle Label Security. Refer to Oracle Database Vault in "Special License Rights" for more information.  
Oracle Database Vault includes a restricted use license for certain Oracle Enterprise Manager features. Refer to Oracle Database Vault in "Restricted Use Licenses" for more information. |
| Oracle Label Security    | Extra cost option: EE, EE-ES  |
|                         | Included option: PE, DBCS EE-HP, DBCS EE-EP, ExaCS | Oracle Label Security includes the following features:  
• Label based access control (LBAC)  
• Multi-level security (MLS)  
• Label factors for Oracle Database Vault (Confidential, Sensitive)  
• User label authorizations (Confidential, Sensitive: PII)  
• Data labels (Sensitive: PII)  
Oracle Label Security includes a restricted use license for certain Oracle Enterprise Manager features. Refer to Oracle Label Security in "Restricted Use Licenses" for more information. |
<table>
<thead>
<tr>
<th>Option</th>
<th>Availability</th>
<th>Included Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oracle Machine Learning (formerly Advanced Analytics)</td>
<td>Included option: SE2, EE, EE-ES, DBCS SE, DBCS EE, DBCS EE-HP, DBCS EE-EP, ExaCS</td>
<td>Oracle Machine Learning includes the following features:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• In-database algorithms for Oracle Machine Learning for SQL (OML4SQL) (formerly Oracle Data Mining):</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Model build (accessed via the DBMS_DATA_MINING package)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Data transformations (accessed via the DBMS_DATA_MINING_TRANSFORM package)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Model scoring (accessed via SQL Scoring functions)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Predictive Analytics (accessed via the DBMS_PREDICTIVE_ANALYTICS package)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Oracle Machine Learning for R (OML4R) (formerly Oracle R Enterprise) (integration with open-source R):</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- OML4R Transparency Layer: Allows an R user to explore and prepare database-resident data using R language syntax and functions</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- OML4R interface to in-database machine learning algorithms</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Embedded R Execution: Enables execution of user-defined R functions in database spawned and controlled R engines, also enabling data- and task- parallel execution</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- All OML4R functionality is invoked using the ORE package</td>
</tr>
<tr>
<td>Oracle Multitenant</td>
<td>Extra cost option: EE, EE-ES</td>
<td>Oracle Multitenant includes the following features:</td>
</tr>
<tr>
<td></td>
<td>Included option: PE, DBCS EE-HP, DBCS EE-EP, ExaCS</td>
<td>• For EE and PE, the ability to have up to 252 pluggable databases per multitenant container database</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• For EE-ES, DBCS EE-HP, DBCS EE-EP, and ExaCS, the ability to have up to 4096 pluggable databases per multitenant container database</td>
</tr>
<tr>
<td></td>
<td></td>
<td>A restricted use license for Oracle Multitenant is included with all Oracle Database offerings. Refer to Oracle Multitenant in &quot;Restricted Use Licenses&quot; for more information.</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Note:</strong> For licensing purposes, one non-CDB instance is equivalent to one user-created PDB inside one CDB.</td>
</tr>
<tr>
<td>Oracle On-Line Analytical Processing (OLAP)</td>
<td>Extra cost option: EE, EE-ES</td>
<td>Oracle On-Line Analytical Processing (OLAP) includes the following features:</td>
</tr>
<tr>
<td></td>
<td>Included option: PE, DBCS EE-HP, DBCS EE-EP, ExaCS</td>
<td>• OLAP Cube Definition, Storage, and Querying</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• OLAP API and Metadata</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• OLAP Cube Materialized Views</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Analytic Workspaces</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• SQL Access to OLAP Cubes</td>
</tr>
<tr>
<td>Oracle Partitioning</td>
<td>Extra cost option: EE, EE-ES</td>
<td>Oracle Partitioning includes the following features:</td>
</tr>
<tr>
<td></td>
<td>Included option: PE, DBCS EE-HP, DBCS EE-EP, ExaCS</td>
<td>• Table Partitions and Subpartitions</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Global and Local Index Partitions and Subpartitions</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Sharded Queues</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Zone Maps (Available only on EE-ES and ExaCS – requires Exadata or Supercluster)</td>
</tr>
</tbody>
</table>
Table 1-14  (Cont.) Oracle Database Options and Their Permitted Features

<table>
<thead>
<tr>
<th>Option</th>
<th>Availability</th>
<th>Included Features</th>
</tr>
</thead>
</table>
| Oracle RAC One Node         | Extra cost option: **EE, EE-ES**  
Included option: **SE2, ExaCS** | Oracle RAC One Node includes the following features:  
- Database Cold Failover to another node in the cluster in case of server or instance failure  
- Online migration of the database instance to another server  
- Support for online rolling upgrades of the database, grid infrastructure, and OS homes  
- Online upgrade to Oracle Real Application Clusters  
- Policy-managed Server Pools  
- Quality of Service Management  
- Application Continuity  
- Zero-Downtime Oracle Grid Infrastructure Patching |
| Oracle Real Application Clusters (Oracle RAC) | Extra cost option: **EE, EE-ES**  
Included option: **SE2, DBCS EE-EP, ExaCS** | Oracle Real Application Clusters (Oracle RAC) includes the following features:  
- All of the features included with Oracle RAC One Node  
- Real Application Clusters scaling to multiple servers  
- Connection Load Balancing  
- Fast Connection Failover  
- Hot Cluster Failover |
<table>
<thead>
<tr>
<th>Option</th>
<th>Availability</th>
<th>Included Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oracle Real Application Testing</td>
<td>Extra cost option: EE, EE-ES</td>
<td>Oracle Real Application Testing includes the following features:</td>
</tr>
<tr>
<td></td>
<td>Included option: PE, DBCS EE,</td>
<td>• Database Replay</td>
</tr>
<tr>
<td></td>
<td>DBCS EE-HP, DBCS EE-EP, ExaCS</td>
<td>• SQL Performance Analyzer (SPA)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Database Consolidation Workbench</td>
</tr>
<tr>
<td>Database Replay</td>
<td></td>
<td>The Oracle Real Application Testing license is required on both capture and replay systems for Database Replay and is charged by the total number of CPUs on those systems.</td>
</tr>
<tr>
<td>SQL Performance Analyzer (SPA)</td>
<td></td>
<td>Use of Capture and Replay ASH Analytics Reports, Compare Period ADDM Reports, and Replay Compare Period Reports also requires an Oracle Diagnostics Pack license.</td>
</tr>
</tbody>
</table>
| Database Consolidation Workbench    |                               | An Oracle Real Application Testing license permits you to access Database Replay functionality through Oracle Enterprise Manager, as well as through the following database server command-line APIs: DBMS_WORKLOAD_CAPTURE and DBMS_WORKLOAD_REPLAY package. The use of the DBMS_WORKLOAD_REPLAY.COMPAR:
|                                     |                               | E_PERIOD_REPORT() function also requires a license for Oracle Diagnostics Pack.   |

### Database Consolidation Workbench

- Database Consolidation Workbench, introduced in Oracle Enterprise Manager Cloud Control 13c, provides a data-driven and systematic approach to consolidation by eliminating guess work and human errors. Database Consolidation Workbench has three key capabilities: consolidation planning, database migration, and performance validation.
- Use of the consolidation planning feature of Database Consolidation Workbench requires an Oracle Diagnostics Pack license.
- Use of the database migration feature of Database Consolidation Workbench requires an Oracle Database Lifecycle Management Pack for Oracle Database license.
- An Oracle Real Application Testing license permits you to access the following links on the **Database Consolidation Workbench page** in Oracle Enterprise Manager:
  - From the **Enterprise** menu, select **Consolidation**, then select **Database Consolidation Workbench**.
  - On the database target home page, select the **Administration** menu, then select **Database Consolidation Workbench**.
  - All features, functions, links, buttons, and drill-downs on this page are licensed as part of the Database Consolidation Workbench.
Table 1-14 (Cont.) Oracle Database Options and Their Permitted Features

<table>
<thead>
<tr>
<th>Option</th>
<th>Availability</th>
<th>Included Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oracle Spatial and Graph</td>
<td>Included option: PE, SE2, EE, EE-ES, DBCS SE, DBCS EE, DBCS EE-HP, DBCS EE-EP, ExaCS</td>
<td>Oracle Spatial and Graph includes the following features:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Geospatial Data Features</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Graph Database Features</td>
</tr>
<tr>
<td><strong>Geospatial Data Features</strong></td>
<td></td>
<td>- SPATIAL_VECTOR_ACCELERATION to significantly improve 2D and 3D spatial vector query performance</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Classes in packages other than the oracle.spatial.geometry (sdoapi.jar) and oracle.spatial.util (sdoutil.jar) packages of the Spatial Java API</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Linear Referencing System (LRS) support</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- GeoRaster Storage, Indexing, and Querying</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Network Data Model</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Topology Data Model</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Spatial analysis and mining subprograms (SDO_SAM package)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Spatial Routing Engine</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Geocoding Engine</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Spatial Web Services including OpenLS support, including support for geocoding, mapping, business directory (Yellow Pages), and driving directions (routing) services, Web feature service (WFS) support (SDO_WFS_PROCESS and SDO_WFS_LOCK packages), and Catalog services for the Web (CSW) support (SDO_CSW_PROCESS package)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- 3-D Geometry, Surface, Triangulated irregular network (TIN), and Point Cloud Storage, Indexing, and Querying</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- GeoJSON</td>
</tr>
<tr>
<td><strong>Graph Database Features</strong></td>
<td></td>
<td>- A property graph to model and analyze relationships found in social networks, cyber security, utilities and telecommunications, life sciences and clinical data, and knowledge networks. Typical graph analyses encompass graph traversal, recommendations, finding communities and influencers, and pattern matching. Its features include:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- A scalable graph database</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- PGQL, a SQL-like declarative query language for the Property Graph data model</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Data import from relational, CSV, GraphML, GraphSON, GML sources</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Parallel bulk load and export of property graph data in Oracle-defined flat files format</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- A parallel, in-memory graph analytics engine with over 40 built-in analytics that include ranking, centrality, recommender, community detection, path finding</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Developer-based APIs based upon Tinkerpop Blueprints, and Java graph APIs</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Text search and query through integration with Oracle Text, Apache Lucene, and optionally, SolrCloud</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- SQL-based Property Graph query and analytics for several popular property graph operations in addition to the analytical functions offered by the in-memory analyst</td>
</tr>
</tbody>
</table>
Table 1-14 (Cont.) Oracle Database Options and Their Permitted Features

<table>
<thead>
<tr>
<th>Option</th>
<th>Availability</th>
<th>Included Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Scripting languages support for Groovy and Python</td>
<td></td>
<td>• Manageability through a Groovy-based console to execute Java and Tinkerpop Gremlin APIs</td>
</tr>
<tr>
<td>• A Network Data Model (NDM) graph to model and analyze link-node graphs to represent physical and logical networks used in transportation, utilities, and telco. Its features include:</td>
<td></td>
<td>• A storage model to represent graphs and networks in link and node tables</td>
</tr>
<tr>
<td>• An RDF Semantic Graph to model and analyze data represented as triples for social network, linked data, and other semantic applications. Its features include:</td>
<td></td>
<td>• Java APIs to perform analysis in memory</td>
</tr>
<tr>
<td>• Oracle Spatial and Graph includes a restricted use license for Oracle Partitioning. Refer to Oracle Spatial and Graph in &quot;Restricted Use Licenses&quot; for more information.</td>
<td></td>
<td>• Numerious graph analysis functions including shortest path, within cost, nearest neighbors, traveling salesman, spanning tree, and more</td>
</tr>
<tr>
<td>• Explicit storage and connectivity of the graph with link- and node-level attributes</td>
<td></td>
<td>• Support for directed and undirected graphs with or without cost</td>
</tr>
<tr>
<td>• Support for directed and undirected graphs with or without cost</td>
<td></td>
<td>• An RDF Semantic Graph to model and analyze data represented as triples for social network, linked data, and other semantic applications. Its features include:</td>
</tr>
<tr>
<td>• Graph relationships represented as triples in compressed, partitioned tables</td>
<td></td>
<td>• Indexing, querying, and ontology management</td>
</tr>
<tr>
<td>• RDFS, OWL, and user-defined inferencing (parallel, batch, and incremental)</td>
<td></td>
<td>• Support for SPARQL 1.1 and mixed SPARQL and SQL queries</td>
</tr>
<tr>
<td>• Support for SPARQL 1.1 and mixed SPARQL and SQL queries</td>
<td></td>
<td>• Enhanced Open Source Tools including Jena, Sesame, Joseki Web Services</td>
</tr>
</tbody>
</table>

Oracle TimesTen Application-Tier Database Cache includes the following features:

- Extra cost option: EE, EE-ES

- Included option: PE

Oracle TimesTen Application-Tier Database Cache includes the following features:

- Data access using PL/SQL, JDBC, ODBC, ttClasses, OCI, and Pro*C/C++ interfaces
- Transaction Log API (XLA) for change notification
- Multi-node Cache Grid
- Automatic data synchronization with the Oracle database
- Transactional replication between the in-memory cache databases
- Automated failure detection and database failovers
- TimesTen Extension for Oracle SQL Developer
- TimesTen Plug-in for Oracle Enterprise Manager

1.5 Oracle Management Packs and Their Permitted Features

Table 1-15 lists Oracle management packs, the Oracle Database offerings for which each pack is available, and the features that are included with each pack. The
features in these packs are accessible through Oracle Enterprise Manager, Desktop Widgets, and APIs provided with Oracle Database software. You must be licensed for a management pack in order to use any of its features.
### Table 1-15 Oracle Management Packs and Their Permitted Features

<table>
<thead>
<tr>
<th>Management Pack</th>
<th>Availability</th>
<th>Included Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oracle Cloud Management Pack for Oracle Database</td>
<td>Extra cost pack: EE, EE-ES</td>
<td><strong>Features:</strong>&lt;br&gt;Oracle Cloud Management Pack for Oracle Database includes the following features:&lt;br&gt;• Database-as-a-Service comprising self-service database provisioning on physical or virtual infrastructure&lt;br&gt;• DBaaS Rapid Start Kit allowing users to set up and configure Enterprise Manager Cloud Control 12c in under a minute.&lt;br&gt;• Pluggable Database-as-a-Service (PDBaaS) providing self-service provisioning on a pool of multitenant container databases (CDBs).&lt;br&gt;• Support shared server, shared cluster, and shared database (Schema-as-a-Service) deployment models&lt;br&gt;• Virtual assembly provisioning. For example, if there is an assembly topology of three VMs (two WebLogic Server-managed servers and one database), you will need both packs to cover the respective tiers.&lt;br&gt;• Snap Clone, a fast, storage efficient way of cloning Oracle databases&lt;br&gt;• Full clones using RMAN backups&lt;br&gt;• Role based access and resource control through quotas and retirement policies&lt;br&gt;• Schedule- and performance-based resource management policies&lt;br&gt;• Metering and chargeback based on fixed cost, utilization metrics and configuration parameters of the database&lt;br&gt;• Programmatic access to the Self-Service Portal&lt;br&gt;• Blueprint driven orchestration of cloud operations&lt;br&gt;<strong>Prerequisites:</strong>&lt;br&gt;Oracle Cloud Management Pack for Oracle Database requires Oracle Database Lifecycle Management Pack for Oracle Database.&lt;br&gt;<strong>Licensed Links:</strong>&lt;br&gt;Use of the following Oracle Enterprise Manager pages and links requires a license for Oracle Cloud Management Pack for Oracle Database.&lt;br&gt;Starting on the Enterprise Summary home page, click the <strong>Enterprise</strong> menu. Select:&lt;br&gt;• <strong>Cloud</strong>, then <strong>Infrastructure Home</strong>&lt;br&gt;• <strong>Cloud</strong>, then <strong>Infrastructure Request Dashboard</strong>&lt;br&gt;• <strong>Cloud</strong>, then <strong>Infrastructure Policies</strong>&lt;br&gt;• <strong>Cloud</strong>, then <strong>Middleware and Database Home</strong>&lt;br&gt;• <strong>Cloud</strong>, then <strong>Middleware and Database Request Dashboard</strong>&lt;br&gt;• <strong>Cloud</strong>, then <strong>Self Service Portal</strong>&lt;br&gt;• <strong>Cloud</strong>, then <strong>Service Instances</strong>&lt;br&gt;• <strong>Chargeback</strong>&lt;br&gt;• <strong>Provisioning and Patching</strong>, then <strong>Database Provisioning</strong>. In the Database Provisioning page, in the Related Links section of the left menu pane, click <strong>Provision Pluggable Databases</strong>. Next, from the PDB Operations section, select <strong>Create New Pluggable Databases</strong>. Click <strong>Launch</strong>, and from Pluggable Database Creation Options, select <strong>Clone an Existing PDB</strong> -&gt; <strong>Snap Clone</strong>.</td>
</tr>
</tbody>
</table>
### Table 1-15  (Cont.) Oracle Management Packs and Their Permitted Features

<table>
<thead>
<tr>
<th>Management Pack</th>
<th>Availability</th>
<th>Included Features</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Starting on the Enterprise Summary home page, click the Setup menu. Select:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Cloud. Select Infrastructure</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Cloud. Select Database</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Provisioning and Patching, then Storage Registration</td>
</tr>
<tr>
<td></td>
<td></td>
<td>On the Multitenant container database's home page, from the Oracle Database menu, select Provisioning, then Provision Pluggable Database. Next, from the PDB Operations section, select Create New Pluggable Databases. Click Launch, and from Pluggable Database Creation Options, select Clone an Existing PDB -&gt; Snap Clone.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Licensed APIs:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Use of the following APIs requires a license for Oracle Cloud Management Pack for Oracle Database:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Assembly Operations — Any POST/GET/PUT/DELETE on /em/cloud/iaas URI space for Resources Assembly Template and Assembly Instance</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• DBaaS Operations — Any POST/GET/PUT/DELETE on /em/cloud/dbaaS URI space</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• DBaaS Setup Operations — Any POST/GET/PUT/DELETE on /em/websvcs/restful/extws/cloudservices/admin/cfw/v1 URI space.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Licensed Command Line Interface (CLI) Verbs:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The following Enterprise Manager Command Line Interface (CLI) verbs are licensed as part of Oracle Cloud Management Pack for Oracle Database. These verbs operate on a database pool.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• add_pool_members</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• create_charge_item</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• create_dbaas_quota</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• create_dbprofile</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• create_pool</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• create_service_template</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• delete_charge_item</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• delete_dbaas_quota</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• delete_pool</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• delete_service_template</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• get_dbaas_quota</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• get_dbaas_request_settings</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• get_metering_data</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• get_pool_capacity_data</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• get_pool_capacity_summary_data</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• get_pool_constraints</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• get_pool_criteria</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• get_pool_detail</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• get_pool_instance_data</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• get_pool_target_type</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• get_pools</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• get_service_template</td>
</tr>
<tr>
<td>Management Pack</td>
<td>Availability</td>
<td>Included Features</td>
</tr>
<tr>
<td>-----------------</td>
<td>--------------</td>
<td>------------------</td>
</tr>
<tr>
<td></td>
<td></td>
<td>list_charge_item_candidates</td>
</tr>
<tr>
<td></td>
<td></td>
<td>remove_pool_members</td>
</tr>
<tr>
<td></td>
<td></td>
<td>update_dbaas_quota</td>
</tr>
<tr>
<td></td>
<td></td>
<td>update_dbaas_request_settings</td>
</tr>
<tr>
<td></td>
<td></td>
<td>update_pool</td>
</tr>
</tbody>
</table>

**Licensed Views and Tables:**
The following objects within the repository schema are licensed under Oracle Cloud Management Pack for Oracle Database:

- Tables starting with EMCT_CBA
- Views starting with EMCT$CBA
- The GP_EMCT_CBA_TARGET_CHARGE views
- The MGMT$EMCT_CBA_CHARGE_DAILY view
- The MGMT$EMCT_CBA_CHARGE_HOURLY view

**Licensed Chargeback Reports:**
The following BI Publisher reports are licensed under Oracle Cloud Management Pack for Oracle Database:

- Charge Trend Report
- Charge Summary Report
- Usage Trend Report
- Usage Summary Report

Also, any report created using the "create-like" feature of BI publisher referring the preceding reports, falls under this license.
Table 1-15  (Cont.) Oracle Management Packs and Their Permitted Features

<table>
<thead>
<tr>
<th>Management Pack</th>
<th>Availability</th>
<th>Included Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oracle Data Masking and Subsetting Pack</td>
<td>Extra cost pack: EE, EE-ES</td>
<td>Features:</td>
</tr>
<tr>
<td></td>
<td>Included pack: DBCS EE, DBCS EE-HP, DBCS EE-EP, ExaCS</td>
<td>Oracle Data Masking and Subsetting Pack includes the following features:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Application Data Modeling</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Data Masking Formats Library</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Data Masking Definitions</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Data Subsetting Definitions</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Application Data Modeling, Data Masking and Subsetting Enterprise Manager Command Line Interface (CLI) verbs</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Application Data Modeling accelerator for select versions of Oracle E-Business Suite</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Application Data Modeling accelerator for select versions of Oracle Fusion Applications</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Data Masking templates for select versions of Oracle Fusion Applications</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Data Masking templates for select versions of Oracle E-Business Suite</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Oracle Data Masking and Subsetting Pack includes the following restricted use licenses:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Database Gateway for APPC</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Database Gateway for DRDA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Database Gateway for Informix</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Database Gateway for SQLServer</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Database Gateway for Sybase</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Database Gateway for Teradata</td>
</tr>
<tr>
<td></td>
<td></td>
<td>If you want to use the Oracle Database Gateways listed above not solely for the purposes of Oracle Data Masking and Subsetting Pack, then you must purchase full-use licenses for the Oracle Database Gateways. When using Oracle Data Masking and Subsetting Pack for non-Oracle databases, the Oracle Database Gateways stage the data in a separately licensed Oracle Database. Oracle Data Masking and Subsetting functionality cannot be executed directly against the non-Oracle database.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Oracle Data Masking and Subsetting Pack must be licensed only for the source database server, i.e., the databases from which the data originates.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>There is no requirement to license the pack for the staging database server on which masking and subsetting operations are executed, or for copies made of the masked database.</td>
</tr>
<tr>
<td>Notes:</td>
<td></td>
<td>Notes:</td>
</tr>
<tr>
<td>2.</td>
<td></td>
<td>Application Data Modeling was previously called Data Discovery and Modeling.</td>
</tr>
<tr>
<td>Licensed Links:</td>
<td></td>
<td>Licensed Links:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>All features, functions, links, buttons, and drill-downs on these Oracle Enterprise Manager menus are licensed as part of the Oracle Data Masking and Subsetting Pack.</td>
</tr>
</tbody>
</table>
Table 1-15  (Cont.) Oracle Management Packs and Their Permitted Features

<table>
<thead>
<tr>
<th>Management Pack</th>
<th>Availability</th>
<th>Included Features</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Starting on the Enterprise Summary home page, click the Enterprise menu, then Quality Management, then select:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Application Data Modeling</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Data Masking Definitions</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Data Masking Formats</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Data Subset Definitions</td>
</tr>
<tr>
<td></td>
<td></td>
<td>From the Oracle database or cluster database target home page, click the Security menu, then select:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Application Data Modeling</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Data Masking Definitions</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Data Subsetting</td>
</tr>
</tbody>
</table>
### Table 1-15  (Cont.) Oracle Management Packs and Their Permitted Features

<table>
<thead>
<tr>
<th>Management Pack</th>
<th>Availability</th>
<th>Included Features</th>
</tr>
</thead>
</table>
| Oracle Database Lifecycle Management Pack for Oracle Database | Extra cost pack: EE, EE-ES  
Included pack: DBCS EE-HP, DBCS EE-EP, ExaCS | **Features:**  
Oracle Database Lifecycle Management Pack for Oracle Database includes the following features:  
- Change Activity Plans  
- Client system analyzer  
- Compliance  
- Configuration Collection Extensibility  
- Configuration Compare  
- Configuration History  
- Configuration Instance Browser  
- Configuration Save  
- Configuration Search  
- Configuration Topology  
- Copy Objects  
- Database Patching  
- Database Provisioning  
- Database Upgrade  
- Disaster Recovery via Site Guard  
- Enterprise Data Governance  
- File Synchronization  
- Notifications  
- Pluggable Database (PDB) Clone  
- PDB Create/Plug/Unplug (Multiple target operations or performed using a customized deployment procedure.)  
- PDB Migrate  
- RAC Scale Back  
- RAC Scale Out  
- Real-time configuration change detection  
- Real-time schema change detection  
- Schema and Data Comparisons  
- Schema and Data Synchronization  
- Schema Change Plans  
- Schema Comparisons  
- User Defined Deployment Procedures (UDDP)  

With the purchase of Oracle Database Lifecycle Management Pack for Oracle Database, you also are entitled to the features described in the following sections. These features are restricted to the Oracle Database targets in the Oracle Database Home and the Platform (hardware and operating system) for the CPUs you have licensed.  
- Application Configuration Console  
- The oplan Utility (The basic OPlan feature is free for everyone that has an Oracle Support contract. Use of OPlan metadata to drive orchestration logic from either Enterprise Manager or custom/third-party scripts is part of Oracle Database Lifecycle Management Pack for Oracle Database.)  
- Migrate to ASM  
- Self Update  

**Licensed Parameters:**  
The `init.ora` parameter `ENABLE_DDL_LOGGING` is licensed as part of Oracle Database Lifecycle Management Pack for Oracle.
Table 1-15  (Cont.) Oracle Management Packs and Their Permitted Features

<table>
<thead>
<tr>
<th>Management Pack</th>
<th>Availability</th>
<th>Included Features</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Database when set to TRUE. When set to TRUE, the database reports schema changes in real time into the database alert log under the message group schema_ddl. The default setting is FALSE.</td>
</tr>
</tbody>
</table>

**Licensed Links:**

The Licensed Links, features, and functions listed in the following sections apply only to the Oracle Database target and the associated host an Oracle Database is deployed on. For management on non-Oracle Database targets, you must purchase the appropriate management pack.

**Licensed Links – Database Provisioning Procedures:**

Use of the following Oracle Enterprise Manager pages and links requires a license for Oracle Database Lifecycle Management Pack for Oracle Database:

- From the Enterprise Manager home page, click the Enterprise menu, Provisioning and Patching, then Procedure Library. All Procedures that Clone and Provision a Database are licensed with Oracle Database Lifecycle Management Pack for Oracle Database.
- From the Enterprise Manager home page, click the Enterprise menu, Provisioning and Patching, then Database Provisioning. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.
- From the Oracle database or cluster database target home page, click the Oracle Database menu, then Provisioning. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.

**Licensed Links – Database Upgrade:**

Use of the following Oracle Enterprise Manager pages and links requires a license for Oracle Database Lifecycle Management Pack for Oracle Database:

- From the Enterprise Manager home page, click the Enterprise menu, Provisioning and Patching, then Procedure Library. All Procedures that Upgrade a Database are licensed with Oracle Database Lifecycle Management Pack for Oracle Database.
- From the Oracle database or cluster database target home page, click the Oracle Database menu, then Provisioning. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.

**Licensed Links – User Defined Deployment Procedures (UDDP)**

Use of the following Oracle Enterprise Manager pages and links requires a license for Oracle Database Lifecycle Management Pack for Oracle Database:

- From the Enterprise Manager home page, click the Enterprise menu, Provisioning and Patching, then Procedure Library. On the Provisioning Library page, from the list of actions, the Create New option is licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.

**Licensed Links – RAC Scale Out and Scale Back**
Table 1-15  (Cont.) Oracle Management Packs and Their Permitted Features

<table>
<thead>
<tr>
<th>Management Pack</th>
<th>Availability</th>
<th>Included Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>Use of the following Oracle Enterprise Manager pages and links requires a license for Oracle Database Lifecycle Management Pack for Oracle Database:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• From the Enterprise Manager home page, click the <strong>Enterprise</strong> menu, <strong>Provisioning and Patching</strong>, then <strong>Procedure Library</strong>. All Procedures that Extend or Scale a database or RAC are licensed with Oracle Database Lifecycle Management Pack for Oracle Database.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• From the Enterprise Manager home page, click the <strong>Enterprise</strong> menu, <strong>Provisioning and Patching</strong>, then <strong>Database Provisioning</strong>. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• From the Oracle cluster database target home page, click the <strong>Oracle Database</strong> menu, then <strong>Provisioning</strong>. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Licensed Links – Database Patching**

Use of the following Oracle Enterprise Manager pages and links requires a license for Oracle Database Lifecycle Management Pack for Oracle Database:

• From the Enterprise Manager home page, click the **Enterprise** menu, **Provisioning and Patching**, then **Procedure Library**. All Procedures that patch a database, Clusterware or Real Application Clusters are licensed with Oracle Database Lifecycle Management Pack for Oracle Database.

**Licensed Links – Offline Patching**

Use of the following Oracle Enterprise Manager pages and links requires a license for Oracle Database Lifecycle Management Pack for Oracle Database:

• From the Enterprise Manager home page, click the **Setup** menu, **Provisioning and Patching**, then **Offline Patching**. From the Online and Offline Setting tab, the **Connection**, **Offline** setting is licensed with Oracle Database Lifecycle Management Pack for Oracle Database.

**Licensed Links – Configuration Instance Browser**

Use of the following Oracle Enterprise Manager pages and links requires a license for Oracle Database Lifecycle Management Pack for Oracle Database:

• From the Enterprise Manager home page, click on **Targets**, **Databases**, and select a Database. From the database home page, click on **Oracle Database, Configuration**. All features, functions, links, buttons, and drill-downs on this menu, excluding Topology, are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.

• If the Target Home Page is accessed directly or by other paths:
  – From the database home page, click on **Oracle Database, Configuration**. All features, functions, links, buttons, and drill-downs on this menu, excluding Topology, are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.
### Table 1-15 (Cont.) Oracle Management Packs and Their Permitted Features

<table>
<thead>
<tr>
<th>Management Pack</th>
<th>Availability</th>
<th>Included Features</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td><strong>Licensed Links – Configuration Search</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Use of the following Oracle Enterprise Manager pages and links requires a license for Oracle Database Lifecycle Management Pack for Oracle Database:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• From the Enterprise Manager home page, click the <strong>Enterprise</strong> menu, then <strong>Configuration and Search</strong>. All features, functions, links, buttons, and drill-downs on this page are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Licensed Links – Configuration History</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Use of the following Oracle Enterprise Manager pages and links requires a license for Oracle Database Lifecycle Management Pack for Oracle Database:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• From the Enterprise Manager home page, click the <strong>Enterprise</strong> menu, then <strong>Configuration and History</strong>. All features, functions, links, buttons, and drill-downs on this page are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Licensed Links – Configuration Compare</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Use of the following Oracle Enterprise Manager pages and links requires a license for Oracle Database Lifecycle Management Pack for Oracle Database:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• From the Enterprise Manager home page, click the <strong>Enterprise</strong> menu, then <strong>Configuration and Compare</strong>. All features, functions, links, buttons, and drill-downs on this page are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Licensed Links – Configuration Save</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Use of the following Oracle Enterprise Manager pages and links requires a license for Oracle Database Lifecycle Management Pack for Oracle Database:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• From the Enterprise Manager home page, click the <strong>Enterprise</strong> menu, then <strong>Configuration and Save</strong>. All features, functions, links, buttons, and drill-downs on this page are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Licensed Links – Configuration Topology</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Use of the following Oracle Enterprise Manager pages and links requires a license for Oracle Database Lifecycle Management Pack for Oracle Database:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• From the Target Home Page, click on <strong>Oracle Database, Configuration, Topology</strong>. In the View Dropdown, Used By is licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• From the Target Home Page, click on <strong>Oracle Database, Configuration, Topology, Customization</strong>. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• If the Target Home Page is accessed directly or by other paths:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>– From the Target Home Page, click on <strong>Oracle Database, Configuration, Topology</strong>. In the View drop-down, Used</td>
</tr>
</tbody>
</table>
Table 1-15  (Cont.) Oracle Management Packs and Their Permitted Features

<table>
<thead>
<tr>
<th>Management Pack</th>
<th>Availability</th>
<th>Included Features</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>By is licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>– From the Target Home Page, click on <strong>Oracle Database</strong>, <strong>Configuration, Topology, Customization</strong>. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Licensed Links – Configuration Collection Extensibility</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Use of the following Oracle Enterprise Manager pages and links requires a license for Oracle Database Lifecycle Management Pack for Oracle Database:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• From the Enterprise Manager home page, click the <strong>Enterprise</strong> menu, then <strong>Configuration and Custom</strong>. All features, functions, links, buttons, and drill-downs on this page are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Licensed Links – File Synchronization</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Use of the following Oracle Enterprise Manager pages and links requires a license for Oracle Database Lifecycle Management Pack for Oracle Database:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• When viewing comparison results differences as described in the Configuration Compare feature, select the configuration specification in the tree on the left. Select <strong>Enable File Synchronization</strong>. All features, functions, links, buttons, and drill-downs on this page are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Licensed Links – Schema Comparison:</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Use of the following Oracle Enterprise Manager pages and links requires a license for Oracle Database Lifecycle Management Pack for Oracle Database:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• From the Enterprise Manager home page, click on <strong>Targets, Databases</strong>, and then select a Database. From the database home page, click on <strong>Schema, Change Management</strong>. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• If the Target Home Page is accessed directly or by other paths:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>– From the database home page, click on <strong>Schema, Change Management</strong>. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Licensed Links – Schema and Data Comparisons:</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Use of the following Oracle Enterprise Manager pages and links requires a license for Oracle Database Lifecycle Management Pack for Oracle Database:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• From the Enterprise Manager home page, click on <strong>Targets, Databases</strong>, and then select a Database. From the database home page, click on <strong>Schema, Change Management</strong>. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.</td>
</tr>
</tbody>
</table>
Table 1-15  (Cont.) Oracle Management Packs and Their Permitted Features

<table>
<thead>
<tr>
<th>Management Pack</th>
<th>Availability</th>
<th>Included Features</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>• If the Target Home Page is accessed directly or by other paths:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• From the database home page, click on <strong>Schema, Change Management</strong>. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Licensed Links – Schema and Data Synchronization:</strong> Use of the following Oracle Enterprise Manager pages and links requires a license for Oracle Database Lifecycle Management Pack for Oracle Database:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• From the Enterprise Manager home page, click on <strong>Targets, Databases</strong>, and then select a Database. From the database home page, click on <strong>Schema, Change Management</strong>. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• If the Target Home Page is accessed directly or by other paths:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• From the database home page, click on <strong>Schema, Change Management</strong>. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Licensed Links – Copy Objects:</strong> Use of the following Oracle Enterprise Manager pages and links requires a license for Oracle Database Lifecycle Management Pack for Oracle Database:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• From the Enterprise Manager home page, click on <strong>Targets, Databases</strong>, and then select a Database. From the database home page, click on <strong>Schema, Change Management</strong>. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• If the Target Home Page is accessed directly or by other paths:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• From the database home page, click on <strong>Schema, Change Management</strong>. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Licensed Links – Real-Time Schema Change Detection:</strong> Use of the following Oracle Enterprise Manager pages and links requires a license for Oracle Database Lifecycle Management Pack for Oracle Database:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• From the Enterprise Manager home page, click on <strong>Targets, Databases</strong>, and then select a Database. From the database home page, click on <strong>Schema, Change Management</strong>. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• If the Target Home Page is accessed directly or by other paths:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• From the database home page, click on <strong>Schema, Change Management</strong>. All features, functions, links, buttons,</td>
</tr>
</tbody>
</table>

---

**Chapter 1**  
Oracle Management Packs and Their Permitted Features

---

**ORACLE**
Table 1-15  (Cont.) Oracle Management Packs and Their Permitted Features

<table>
<thead>
<tr>
<th>Management Pack</th>
<th>Availability</th>
<th>Included Features</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>and drill-downs on this menu are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.</td>
</tr>
<tr>
<td><strong>Licensed Links – Real-time Configuration Change Detection and Compliance:</strong></td>
<td></td>
<td>Use of the following Oracle Enterprise Manager pages and links requires a license for Oracle Database Lifecycle Management Pack for Oracle Database:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• From the Enterprise Manager home page, click the Enterprise menu and Compliance. All features, functions, links, buttons, and drill-downs associated with the Library, Results and Real-Time Observations pages are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.</td>
</tr>
<tr>
<td><strong>Licensed Reports:</strong></td>
<td></td>
<td>The following reports are part of Oracle Database Lifecycle Management Pack for Oracle Database. All reports in each of these sections are licensed as part of this pack. To access the reports go to the Enterprise Manager home page, click the Reports, Information Publisher Reports or BI Publisher Enterprise Reports.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The following reporting areas, reports, and sub-reports under Information Publisher Reports are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Compliance</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Deployment and Configuration</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Sample Host reports, Configuration Reports</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Security</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The following reporting areas, reports and sub-reports under BI Publisher Enterprise Reports are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Compliance</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Deployment and Configuration</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Sample Host reports, Configuration Reports</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Security</td>
</tr>
<tr>
<td><strong>Licensed Command Line Interface (CLI) Verbs:</strong></td>
<td></td>
<td>The following Enterprise Manager Command Line Interface (CLI) verbs are licensed as part of Oracle Database Lifecycle Management Pack for Oracle Database.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• associate_cs_targets</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• clone_database</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• config_compare</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• config_db_service_target</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• configure_log_archive_locations</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• confirm_instance</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• create_database</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• describe_instance</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• describe_procedure_input</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• disable_config_history</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• enable_config_history</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• export_compliance_group</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• export_compliance_standard_rule</td>
</tr>
</tbody>
</table>
Table 1-15  (Cont.) Oracle Management Packs and Their Permitted Features

<table>
<thead>
<tr>
<th>Management Pack</th>
<th>Availability</th>
<th>Included Features</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>• export_facet</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• export_standard</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• fix_compliance_state</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• get_config_searches</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• get_config_templates</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• get_executions</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• get_instance_data</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• get_instance_status</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• get_instances</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• get_oms_config_property</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• get_procedure_types</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• get_procedure_xml</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• get_procedures</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• get_retry_argument</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• get_saved_configs</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• ignore_instance</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• import_compliance_object</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• list_oms_config_properties</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• remove_cs_target_association</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• reschedule_instance</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• resume_instance</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• run_config_search</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• save_procedure</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• set_config_history_retention_period</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• stop_instance</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• submit_procedure</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• suspend_instance</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• update_and_retry_step</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• update_procedure_input</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• upgrade_database</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Licensed Repository Views – Compliance Views:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The following compliance views within the repository schema are</td>
</tr>
<tr>
<td></td>
<td></td>
<td>licensed under Oracle Database Lifecycle Management Pack for</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Oracle Database:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$CCC_ALL_OBS_BUNDLES</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$CCC_ALL_OBSERVATIONS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$CCC_DIAG_ANALYTICS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$CCC_DIAG_QUEUEBACKLOG</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$COMPLIANCE_STANDARD</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$COMPLIANCE_STANDARD_GROUP</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$COMPLIANCE_STANDARD_RULE</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$COMPOSITE_CS_EVAL_SUMMARY</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$CS_ASM_DISKGRP_SETTINGS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$CS_DB_CONTROL_FILE_COUNT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$CS_DB_INIT_PARAMS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$CS_DB_RBS_IN_SYSTEM</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$CS_DB_REC_SEG_SETTINGS</td>
</tr>
</tbody>
</table>
Table 1-15  (Cont.) Oracle Management Packs and Their Permitted Features

<table>
<thead>
<tr>
<th>Management Pack</th>
<th>Availability</th>
<th>Included Features</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>• MGMT$CS_DB_REC_TS_SETTINGS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$CS_DB_REC_USER_SETTINGS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$CS_DB_REDO_LOG_COUNT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$CS_DB_REDO_LOGS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$CS_DB_TABLESPACES</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$CS_DB_TBS_SEGSPACE_MGMT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$CS_EVAL_SUMMARY</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$CS_FEATURE_USAGE</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$CS_GROUP_EVAL_SUMMARY</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$CS_GROUP_KEYWORD</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$CS_HA_INFO</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$CS_HIERARCHY</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$CS_KEYWORD</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$CS_RQS_HIERARCHY</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$CS_RULE_ATTRS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$CS_RULE_EVAL_SUMMARY</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$CS_RULEFOLDER</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$CS_TARGET_ASSOC</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$CS_TGT_ASSOC_TXF_REQ</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$CSG_HIERARCHY</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$CSG_SUBGROUP</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$CSR_CURRENT_VIOLATION</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$CSR_TARGET_ASSOC</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$CSR_VIOLATION_CONTEXT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$CSR_RF_TARGET_ASSOC</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$EM_CS_RULE_EVENT_ERROR</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$EM_INT_VIOL_CTX_DEF</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$ICS_TARGET_ASSOC</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$REPO_RULE_CHK_DETAILS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$REPOSITORY_RULE_BIND_VARS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$REPOSITORY_RULE_PARAMS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$RULE_KEYWORD</td>
</tr>
</tbody>
</table>

Licensed Repository Views – Provisioning and Patching Views:
The following provisioning and patching views within the repository schema are licensed under Oracle Database Lifecycle Management Pack for Oracle Database:

- EM$PROV_APPTYPES
- EM$PROVAPP_METADATA
- EM$PROVAPP_METADATA_VERSION
- EM$PROVAPP_TAG_PROPERTIES
- EM$PROVAPP_TAGS
- MGMT$PA_RECOM_METRIC_SOURCE

Licensed Repository Views – Patching Views:
The following patching views within the repository schema are licensed under Oracle Database Lifecycle Management Pack for Oracle Database:

- GC$EM_PC_PLAN_PATCHES
Table 1-15  (Cont.) Oracle Management Packs and Their Permitted Features

<table>
<thead>
<tr>
<th>Management Pack</th>
<th>Availability</th>
<th>Included Features</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>GC$EM_PC_PLANS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>GC$EM_PC_PLAN_TARGETS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>GC_PC_EXECUTION_INSTANCES</td>
</tr>
<tr>
<td></td>
<td></td>
<td>GC_PC_PLAN_ANALYSIS_RS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>GC_PC_PLAN_REMEDY</td>
</tr>
<tr>
<td></td>
<td></td>
<td>GC_PC_PLAN_REMEDY_DETAILS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>GC_PC_PLAN_USERS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>GC_PC_TARGETS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MGMT$APPLIED_PATCHES</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MGMT$APPLIED_PATCHSETS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MGMT$ARU_FAMILY_PRODUCT_MAP</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MGMT$ARU_LANGUAGES</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MGMT$ARU_PATCH_RECOMMENDATIONS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MGMT$ARU_PLATFORMS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MGMT$ARU_PRODUCT_RELEASE_MAP</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MGMT$ARU_PRODUCTS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MGMT$ARU_RELEASES</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MGMT$ARU_TARGETS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MGMT$PA_AFFECTED_HOST_GUID_OH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MGMT$PA_AFFECTED_HOST_OH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MGMT$PA_AFFECTED_TARGETS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MGMT$PA_FINAL_PATCH_LIST</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MGMT$PA_TARGET_MAPPING</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MGMT$PR_APPL_PATCHES_TO_OH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MGMT$PR_APPL_PATCHES_TO_OH_TGT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MGMT$PR_HOME_INFO</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MGMT$PR_HOMES_AFFECTED_COUNT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MGMT$RECOM_METRIC_SOURCE</td>
</tr>
</tbody>
</table>

Licensed Repository Views – Configuration Views:
The following configuration views within the repository schema are licensed under Oracle Database Lifecycle Management Pack for Oracle Database:

<table>
<thead>
<tr>
<th>Included Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>GC$ECM_COMP_PROPERTIES</td>
</tr>
<tr>
<td>GC$ECM_CONFIG_SUMMARY</td>
</tr>
<tr>
<td>GC$ECM_CURR_CONFIG</td>
</tr>
<tr>
<td>GC$ECM_CURR_CONFIG_FLAT_MEMS</td>
</tr>
<tr>
<td>GC$ECM_CURR_CONFIG_SNAPSHOTS</td>
</tr>
<tr>
<td>GC$ECM_CURR_TARGET_SNAPSHOTS</td>
</tr>
<tr>
<td>GC$ECM_DATA_RETENTION_TIME</td>
</tr>
<tr>
<td>GC$ECM_GEN_SNAPSHOT</td>
</tr>
<tr>
<td>GC$ECM_SAVED_CONFIG</td>
</tr>
<tr>
<td>GC$ECM_SAVED_CONFIG_FLAT_MEMS</td>
</tr>
<tr>
<td>GC$ECM_SAVED_CONFIG_SNAPSHOTS</td>
</tr>
<tr>
<td>GC$ECM_SAVED_CONFIG_TARGETS</td>
</tr>
<tr>
<td>MGMT$CCS_DATA</td>
</tr>
<tr>
<td>MGMT$CCS_DATA_SOURCE</td>
</tr>
<tr>
<td>Management Pack</td>
</tr>
<tr>
<td>-----------------</td>
</tr>
<tr>
<td>MGMT$CCS_DATA_SOURCE_VISIBLE</td>
</tr>
<tr>
<td>MGMT$DB_DATAFILES</td>
</tr>
<tr>
<td>MGMT$DB_INIT_PARAMS</td>
</tr>
<tr>
<td>MGMT$DB_REDOLOGS</td>
</tr>
<tr>
<td>MGMT$DB_TABLESPACES</td>
</tr>
<tr>
<td>MGMT$ECM_CMP_JOBS</td>
</tr>
<tr>
<td>MGMT$ECM_CMP_RPT_CCS_PD_ALL</td>
</tr>
<tr>
<td>MGMT$ECM_CMP_RPT_CI_DIFFS</td>
</tr>
<tr>
<td>MGMT$ECM_VISIBLE_SNAPSHOTS</td>
</tr>
<tr>
<td>MGMT$UNPATCHABLE_DB_TARGETS</td>
</tr>
<tr>
<td>MGMT$APPLIED_PATCHSETS</td>
</tr>
<tr>
<td>MGMT$CPF_ADVISORY_INFO</td>
</tr>
<tr>
<td>MGMT$CPF_PATCH_INFO</td>
</tr>
<tr>
<td>MGMT$HOMES_AFFECTED</td>
</tr>
<tr>
<td>MGMT$OH_COMP_DEP_RULE</td>
</tr>
<tr>
<td>MGMT$OH_COMPONENT</td>
</tr>
<tr>
<td>MGMT$OH_DEPRECATED</td>
</tr>
</tbody>
</table>

**Licensed Repository Views – Oracle Home Patching Views:**

The following Oracle home patching views within the repository schema are licensed under Oracle Database Lifecycle Management Pack for Oracle Database:

- MGMT$APPLIED_PATCHES
- MGMT$APPLIED_PATCHSETS
- MGMT$APPL_PATCH_AND_PATCHSET
- MGMT$CPF_ADVISORY_INFO
- MGMT$CPF_HOMES_INFO
- MGMT$CPF_PATCH_INFO
- MGMT$EM_HOMES_PLATFORM
- MGMT$HOMES_AFFECTED
- MGMT$OH_CLONE_PROPERTIES
- MGMT$OH_COMP_DEP_RULE
- MGMT$OH_COMP_INST_TYPE
- MGMT$OH_COMPONENT
- MGMT$OH_CRS_NODES
- MGMT$OH_DEPRECATED
- MGMT$OH_DB_TARGETS
- MGMT$OH_FILE
- MGMT$OH_HOME_INFO
Table 1-15  (Cont.) Oracle Management Packs and Their Permitted Features

<table>
<thead>
<tr>
<th>Management Pack</th>
<th>Availability</th>
<th>Included Features</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>• MGMT$OH_INSTALLED_TARGETS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$OH_INV_SUMMARY</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$OH_PATCH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$OH_PATCHED_COMPONENT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$OH_PATCHED_FILE</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$OH_PATCH_FIXED_BUG</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$OH_PATCHSET</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$OH_VERSIONED_PATCHV</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$PATCH_ADVISORIES</td>
</tr>
<tr>
<td>Licensed Repository Views – Security Views:</td>
<td></td>
<td>The following security views within the repository schema are licensed under Oracle Database Lifecycle Management Pack for Oracle Database:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$ESA_ALL_PRIVS_REPORT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$ESA_ANY_DICT_REPORT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$ESA_ANY_PRIV_REPORT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$ESA_AUDIT_SYSTEM_REPORT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$ESA_BECOME_USER_REPORT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$ESA_CATALOG_REPORT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$ESA_CONN_PRIV_REPORT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$ESA_CREATE_PRIV_REPORT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$ESA_DBA_GROUP_REPORT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$ESA_DBA_ROLE_REPORT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$ESA_DIRECT_PRIV_REPORT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$ESA_EXMPT_ACCESS_REPORT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$ESA_KEY_OBJECTS_REPORT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$ESA_OH_OWNERSHIP_REPORT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$ESA_OH_PERMISSION_REPORT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$ESA_POWER_PRIV_REPORT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$ESA_PUB_PRIV_REPORT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$ESA_SYS_PUB_PKG_REPORT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$ESA_TRC_AUD_PERM_REPORT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$ESA_WITH_ADMIN_REPORT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$ESA_WITH_GRANT_REPORT</td>
</tr>
<tr>
<td>Licensed Repository Views – Client Configuration Views:</td>
<td></td>
<td>The following client configuration views within the repository schema are licensed under Oracle Database Lifecycle Management Pack for Oracle Database:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$CSA_COLLECTIONS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$CSA_FAILED</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$CSA_HOST_COOKIES</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$CSA_HOST_CPUS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$CSA_HOST_CUSTOM</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$CSA_HOST_IOCARS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$CSA_HOST_NICS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• MGMT$CSA_HOST_OOS_COMPONENTS</td>
</tr>
</tbody>
</table>
Table 1-15  (Cont.) Oracle Management Packs and Their Permitted Features

<table>
<thead>
<tr>
<th>Management Pack</th>
<th>Included Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>$CSA_HOST_OS_FILESYSEMS</td>
<td></td>
</tr>
<tr>
<td>$CSA_HOST_OS_PROPERTIES</td>
<td></td>
</tr>
<tr>
<td>$CSA_HOST_RULES</td>
<td></td>
</tr>
<tr>
<td>$CSA_HOST_SW</td>
<td></td>
</tr>
<tr>
<td>$ECM_CONFIG_HISTORY</td>
<td></td>
</tr>
</tbody>
</table>
Table 1-15  (Cont.) Oracle Management Packs and Their Permitted Features

<table>
<thead>
<tr>
<th>Management Pack</th>
<th>Availability</th>
<th>Included Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oracle Diagnostics Pack</td>
<td>Extra cost pack: EE, EE-ES</td>
<td>Features:</td>
</tr>
<tr>
<td></td>
<td>Included pack: DBCS EE, DBCS EE-HP, DBCS EE-EP, ExaCS</td>
<td>• Performance monitoring and diagnostics (database and host)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Automatic Workload Repository (AWR)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• AWR Warehouse</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Automatic Database Diagnostic Monitor (ADDM)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Compare Period ADDM</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Real Time ADDM</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Active Session History (ASH)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• ASH analytics</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Performance Hub</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Exadata Cell Grid Administration</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Exadata Cell Grid Performance</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Exadata Cell Group Health Overview page</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Exadata Resource Utilization</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Blackouts</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Notifications</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Metric and Alert/Event history</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• User-Defined Metrics and Metric Extensions</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Management Connectors</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Dynamic metric baselines and Adaptive metric thresholds</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Monitoring templates and Template Collections</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Replay Compare Period Report</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Supporting functionality to perform per stream bottleneck</td>
</tr>
<tr>
<td></td>
<td></td>
<td>detection and per component top wait event analysis</td>
</tr>
</tbody>
</table>

In order to use the features listed above, you must purchase licenses for Oracle Diagnostics Pack. A new initialization parameter, \( \text{CONTROL\_MANAGEMENT\_PACK\_ACCESS} \), controls access to Oracle Diagnostics Pack and Oracle Tuning Pack. This parameter can be set to one of three values:

• **DIAGNOSTIC+TUNING**: Oracle Diagnostics Pack and Oracle Tuning Pack functionally is enabled in the database server.

• **DIAGNOSTIC**: Only Oracle Diagnostics Pack functionality is enabled in the server.

• **NONE**: Oracle Diagnostics Pack and Oracle Tuning Pack functionally is disabled in the database server.

Any and all methods of accessing Oracle Diagnostics Pack functionality, whether through Enterprise Manager Console, Desktop Widgets, command-line APIs, or direct access to the underlying data, requires an Oracle Diagnostics Pack license.

**Licensed Links:**

To determine which links in Enterprise Manager are part of Oracle Diagnostics Pack, click the Setup link on the top right-hand part of the Enterprise Manager Home page.

• When you click the Setup link, the navigation bar contains the Management Pack Access link. Click this link.

• This will take you to the Management Pack Access page, which allows you to grant and remove access from all the management packs.
Table 1-15  (Cont.) Oracle Management Packs and Their Permitted Features

<table>
<thead>
<tr>
<th>Management Pack</th>
<th>Availability</th>
<th>Included Features</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>For Enterprise Manager Database Control, click the <strong>Remove Access</strong> radio button</td>
</tr>
<tr>
<td></td>
<td></td>
<td>for the Diagnostics Pack and click <strong>Apply</strong>.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>For Enterprise Manager Cloud Control, click the appropriate check box for the</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Diagnostics Pack and click <strong>Apply</strong>.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>This procedure disables all the links and tabs associated with Oracle Diagnostics</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pack in Enterprise Manager. All the disabled links and tabs are part of Oracle</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Diagnostics Pack and therefore require a pack license.</td>
</tr>
</tbody>
</table>

**Licensed Command-Line APIs:**

Oracle Diagnostics Pack features can also be accessed by way of database server APIs and command-line interfaces:

- The **DBMS_ADDM**, **DBMS_PERF**, **DBMS_UMF**, and **DBMS_WORKLOAD_REPOSITORY** packages are part of this pack.
- The **DBMS_ADVISOR** package is part of this pack if you specify ADDM as the value of the `advisor_name` parameter, or if you specify for the value of the `task_name` parameter any value starting with the ADDM prefix.
- The **DBMS_WORKLOAD_REPLAY.COMPARE_PERIOD_REPORT** function is part of this pack.
- The **V$ACTIVE_SESSION_HISTORY** dynamic performance view and its underlying table, **X$ASH**, are part of this pack.
- The **DBA_STREAMS_TP_PATH_BOTTLENECK** view is part of this pack.
- All views beginning with **DBA_ADDM_** are part of this pack.
- Some data in **DBA_STREAMS_TP_COMPONENT_STAT** requires Oracle Diagnostics Pack. The following filter clause to any query on **DBA_STREAMS_TP_COMPONENT_STAT** shows Diagnostics-Pack-dependent data:

```
WHERE STATISTIC_UNIT = 'PERCENT'
```

For example, the following query shows Diagnostics-Pack-dependent data only:

```
SELECT * FROM DBA_STREAMS_TP_COMPONENT_STAT
WHERE STATISTIC_UNIT = 'PERCENT';
```

- All data dictionary views beginning with the prefix **DBA_HIST_** are part of this pack, along with their underlying tables. The only exception are the views: **DBA_HIST_SNAPSHOT**, **DBA_HIST_DATABASE_INSTANCE**, **DBA_HIST_SNAP_ERROR**, **DBA_HIST_SEG_STAT**, **DBA_HIST_SEG_STAT_OBJ**, and **DBA_HIST_UNDOSTAT**. They can be used without the Oracle Diagnostics Pack license.
- All data dictionary views with the prefix **DBA_ADVISOR_** are part of this pack if queries to these views return rows with the value ADDM in the **ADVISOR_NAME** column or a value of ADDM* in the **TASK_NAME** column or the corresponding **TASK_ID**.
- The following reports found in the `/rdbms/admin/` directory of the Oracle home directory are part of this pack: **awrrpt.sql**, **awrrpti.sql**, **awrgrrpt.sql**, **awrgdrrpt.sql**,
Table 1-15  (Cont.) Oracle Management Packs and Their Permitted Features

<table>
<thead>
<tr>
<th>Management Pack</th>
<th>Availability</th>
<th>Included Features</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>awrgdrpi.sql, addmrpt.sql, addmrpti.sql, ashrpt.sql, ashrpti.sql, awrddrpt.sql, awrdrpdi.sql, awrsqrpi.sql, awrsqrpt.sql, awrextr.sql, awrload.sql, awrinfo.sql, spawrio.sql, and spawrrac.sql.</td>
</tr>
</tbody>
</table>

Licensed Repository Views – Monitoring Views:
The following monitoring views are licensed under Oracle Diagnostics Pack:

- MGMT$ALERT_ANNOTATIONS
- MGMT$ALERT_CURRENT
- MGMT$ALERT_HISTORY
- MGMT$ALERT_NOTIF_LOG
- MGMT$AVAILABILITY_CURRENT
- MGMT$AVAILABILITY_HISTORY
- MGMT$BLACKOUT_HISTORY
- MGMT$BLACKOUTS
- MGMT$METRIC_COLLECTIONS
- MGMT$METRIC_CURRENT
- MGMT$METRIC_DAILY
- MGMT$METRIC_DETAILS
- MGMT$METRIC_HOURLY
- MGMT$TARGET_METRIC_COLLECTIONS
- MGMT$TARGET_METRIC_SETTINGS

Licensed Repository Views – Template Views:
The following template views are licensed under Oracle Diagnostics Pack:

- MGMT$TEMPLATES
- MGMT$TEMPLATE_METRIC_COLLECTION
- MGMT$TEMPLATE_METRIC_SETTINGS
- MGMT$TEMPLATE_POLICY_SETTINGS
Table 1-15  (Cont.) Oracle Management Packs and Their Permitted Features

<table>
<thead>
<tr>
<th>Management Pack</th>
<th>Availability</th>
<th>Included Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oracle Tuning Pack</td>
<td>Extra cost pack: EE, EE-ES</td>
<td>Features:</td>
</tr>
<tr>
<td></td>
<td>Included pack: DBCS EE, DBCS EE-HP, DBCS EE-EP, ExaCS</td>
<td>Oracle Tuning Pack includes the following features:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• SQL Access Advisor</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• SQL Tuning Advisor</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Oracle Database In-Memory Advisor</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Automatic SQL Tuning</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• SQL Profiles</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Real-time SQL and PL/SQL Monitoring</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Real-time Database Operations Monitoring</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Reorganize objects</td>
</tr>
</tbody>
</table>

A new initialization parameter, CONTROL_MANAGEMENT_PACK_ACCESS, is introduced to control access to Oracle Diagnostics Pack and Oracle Tuning Pack in the database server. This parameter can be set to one of three values:

- **DIAGNOSTIC+TUNING**: Oracle Diagnostics Pack and Oracle Tuning Pack functionally is enabled in the database server.
- **DIAGNOSTIC**: Only Oracle Diagnostics Pack functionality is enabled in the server.
- **NONE**: Oracle Diagnostics Pack and Oracle Tuning Pack functionally is disabled in the database server.

Any and all methods of accessing Oracle Tuning Pack functionality, whether through Enterprise Manager Console, Desktop Widgets, command-line APIs, or direct access to the underlying data, requires an Oracle Tuning Pack license.

**Prerequisites:**

Oracle Tuning Pack requires Oracle Diagnostics Pack.

**Licensed Links:**

To determine which links in Enterprise Manager are part of Oracle Tuning Pack, click the **Setup** link on the top right-hand part of the Enterprise Manager Home page.

- When you click the **Setup** link, the navigation bar contains the Management Pack Access link. Click this link.
- This will take you to the Management Pack Access page, which allows you to grant and remove access from all the management packs.
  - For Enterprise Manager Database Control, click the Remove Access radio button for the Tuning Pack and click **Apply**.
  - For Enterprise Manager Cloud Control, click the appropriate check box for the Tuning Pack and click **Apply**.

This procedure disables all the links and tabs associated with Oracle Tuning Pack in Enterprise Manager. All the disabled links and tabs are part of Oracle Tuning Pack and therefore require a pack license.

**Licensed Command Line APIs:**

Oracle Tuning Pack features can also be accessed by way of database server APIs and command-line interfaces:

- **DBMS_ADVISOR**, when the value of the **advisor_name** parameter is either SQL Tuning Advisor or SQL Access Advisor.
- **DBMS_AUTO_SQLTUNE**
Table 1-15  (Cont.) Oracle Management Packs and Their Permitted Features

<table>
<thead>
<tr>
<th>Management Pack</th>
<th>Availability</th>
<th>Included Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>DBMS_PERF</td>
<td></td>
<td>• DBMS_PERF</td>
</tr>
<tr>
<td>DBMS_SQL_MONITOR</td>
<td></td>
<td>• DBMS_SQL_MONITOR</td>
</tr>
<tr>
<td>DBMS_SQLTUNE</td>
<td></td>
<td>• DBMS_SQLTUNE (See Note)</td>
</tr>
<tr>
<td>V$SQL_MONITOR</td>
<td></td>
<td>• V$SQL_MONITOR</td>
</tr>
<tr>
<td>V$SQL_PLAN_MONITOR</td>
<td></td>
<td>• V$SQL_PLAN_MONITOR</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• The following report found in the /rdbms/admin/ directory of the Oracle home directory is part of this pack: sqltrpt.sql.</td>
</tr>
</tbody>
</table>

**Note:** If you are licensed for the on-premise Oracle Database Enterprise Edition, then you can use certain subprograms of the DBMS_SQLTUNE package even if you do not have an Oracle Tuning Pack license. See the SQL Tuning Sets entry in Table 1-6 for more information.

1.6 Checking for Feature, Option, and Management Pack Usage

Oracle provides the script `options_packs_usage_statistics.sql`, which enables you to check feature usage, Oracle Database option usage, and Oracle management pack usage on your database. This script lists, in two distinct sections:

- Oracle Database option and Oracle management pack usage
- Features used by each option and management pack

You can obtain the script from My Oracle Support as follows:

1. Use a Web browser to view the My Oracle Support Web site:
   
   https://support.oracle.com

2. Log in to My Oracle Support.
   
   If you are not a My Oracle Support registered user, then click Register and follow the registration instructions.

3. Search for Document ID 1317265.1, or access it directly with the following URL:
   
   https://support.oracle.com/CSP/main/article?cmd=show&type=NOT&id=1317265.1

You can manually run the script on an individual database or use Oracle Enterprise Manager Job System to automatically run the script on multiple databases. Refer to Oracle Enterprise Manager Cloud Control Administrator’s Guide for information on Oracle Enterprise Manager Job System.
1.7 Special License Rights

Table 1-16  Special License Rights

<table>
<thead>
<tr>
<th>Feature / Option</th>
<th>Licensing Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data Guard Far Sync</td>
<td>The far sync instance can be installed and used on a server different from the server where the Oracle Database is installed and used. It is not necessary to obtain a separate license for the server running the far sync instance.</td>
</tr>
<tr>
<td>Global Data Services</td>
<td>The GSM listener can be installed and used on a server different from the server where the Oracle Database is installed and used. It is not necessary to obtain a separate license for the server running the GSM listener.</td>
</tr>
<tr>
<td>Infrastructure repository databases</td>
<td>A separate single instance Oracle Database can be installed and used as an infrastructure repository for RMAN, Oracle Enterprise Manager Cloud Control, Automatic Workload Repository (AWR) Warehouse, Global Data Services Catalog, Sharding Catalog, and Grid Infrastructure Management Repository without additional license requirements, provided that all the targets are correctly licensed. It may not be used or deployed for other uses. The infrastructure repositories for RMAN, Oracle Enterprise Manager Cloud Control, AWR Warehouse, Global Data Services Catalog, and Sharding Catalog can be shared in one database, or deployed in separate databases. Enterprise Edition must be used for the infrastructure repository database(s). If Oracle RAC is used for the infrastructure database, then Oracle RAC licenses for all servers, and Enterprise Edition licenses for all but the first server, are required. If Data Guard is used for the infrastructure database for RMAN, Oracle Enterprise Manager Cloud Control, AWR Warehouse, Global Data Services, and Grid infrastructure management Repository, then an Enterprise Edition license for the standby server is required. The Infrastructure Database for the Sharding Catalog can be protected with Data Guard without a second Enterprise Edition license.</td>
</tr>
</tbody>
</table>
Table 1-16  (Cont.) Special License Rights

<table>
<thead>
<tr>
<th>Feature / Option</th>
<th>Licensing Information</th>
</tr>
</thead>
</table>
| Oracle ASM Cluster File System (Oracle ACFS) | When used with non-Oracle Database files, all Oracle ACFS features are free. When used with Oracle Database files, all Oracle ACFS features are free, with the following exceptions:  
  - ACFS Auditing - Not available (use Oracle Audit Vault*)  
  - ACFS Compression - Not available (use Oracle Advanced Compression*)  
  - ACFS Encryption - Not available (use Oracle Transparent Data Encryption, part of the Oracle Advanced Security option*)  
  - ACFS Security - Not available (use Oracle Database Vault*)  
  * Requires appropriate full-use licenses to these products or components.  
  Oracle will provide support services for Oracle ACFS only if the server it operates on also operates an Oracle product, which may include Oracle Linux or Oracle Solaris, which is under an Oracle support contract. |
| Oracle Automatic Storage Management (Oracle ASM) | Oracle ASM is free to use with all Oracle databases and Oracle ACFS file systems. |
| Oracle Clusterware | Oracle Clusterware provides cluster membership and high availability monitoring and failover. Oracle Clusterware may be used to protect any application (restarting or failing over the application in the event of a failure) on any server, free of charge. Oracle will provide support for Clusterware only if the server is running an Oracle product, which may include Oracle Linux or Oracle Solaris, that is also under Oracle support. |
| Oracle Connection Manager | Oracle Connection Manager can be installed and used on a machine different from the machine where the Oracle Database is installed and used. It is not necessary to obtain a separate license for the machine running Oracle Connection Manager. |
| Oracle Data Guard broker | You can install the broker command line interface DGMGRL and run the observer software on computer systems that are separate from the Oracle Data Guard primary and standby systems. It is not necessary to obtain a separate license for a system hosting the observer. |
| Oracle Database Backup Cloud Service | Oracle Database Backup Cloud Service includes use of the following two features from the Oracle Advanced Security option or the Oracle Advanced Compression option at no additional cost:  
  - RMAN backup encryption  
  - All RMAN backup compression algorithms  
  To use additional features of the Oracle Advanced Security option or the Oracle Advanced Compression option, you must license those options separately. In addition, the Oracle Advanced Security option must be separately licensed when performing RMAN encrypted backups directly to disk. |
| Oracle Database Gateway for ODBC | Oracle Database Gateway for ODBC can be installed and used on a machine different from the machine where the Oracle Database is installed and used. It is not necessary to obtain a separate license for the machine running Oracle Gateway for ODBC. |
| Oracle Database Provider for DRDA | Oracle Database Provider for DRDA can be installed and used on a machine different from the machine where the Oracle Database is installed and used. It is not necessary to obtain a separate license for the machine running Oracle Database Provider for DRDA. |
Table 1-16  (Cont.) Special License Rights

<table>
<thead>
<tr>
<th>Feature / Option</th>
<th>Licensing Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oracle Database Vault</td>
<td>When Oracle Database Vault is configured and enabled, it configures and enables Oracle Label Security. Oracle Label Security is solely restricted for use by the Oracle Database Vault software. If you want to create Oracle Label Security policies, then you must purchase a full-use license for Oracle Label Security.</td>
</tr>
</tbody>
</table>
| Oracle Real Application Clusters (RAC) and Real Application Clusters One Node | The following licensing information applies when using Oracle Real Application Clusters or Real Application Clusters One Node in a clustered server environment with Oracle Database Standard Edition 2:  
• You must use Oracle Clusterware. Third-party clusterware management solutions are not supported.  
• Oracle Automatic Storage Management (Oracle ASM) or Oracle ASM Cluster File System (Oracle ACFS) is required for creating and managing all Oracle database file types. Raw volumes, partitions, or third-party cluster file systems are not supported for storing Oracle database files with Oracle Database Standard Edition 2, and Oracle RAC or RAC One Node. Refer to *Oracle Automatic Storage Management Administrator’s Guide* for a comprehensive list of all database file types.  
• Oracle ACFS or a local OS file system must be used to store all non-database files. No Oracle-maintained copies of any non-database files can exist in any other locations, with the following exceptions:  
  – Customers who want to manually script maintenance of a standby database can create a second copy of their archive logs outside of Oracle ASM on a local file system only, designated by the LOG_ARCHIVE_DEST_n parameter.  
  – RMAN backups of files can reside on either a local or network mounted file system.  
• No other cluster software can be installed on the system, including OCFS, OCFS2, third-party clusterware, third-party cluster volume managers, and third-party cluster file systems. |
### Table 1-16  (Cont.) Special License Rights

<table>
<thead>
<tr>
<th>Feature / Option</th>
<th>Licensing Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oracle Real Application Testing</td>
<td>The full functionality of Oracle Real Application Testing is available only on Oracle Database 11g Release 1 or higher. Partial functionality of Oracle Real Application Testing is available to customers wishing to upgrade from Oracle9i Database Release 2 or Oracle Database 10g.</td>
</tr>
<tr>
<td></td>
<td>The functionality available on Oracle9i Database Release 2 is as follows:</td>
</tr>
<tr>
<td></td>
<td>• <strong>Database Replay</strong>: Only the Workload Capture feature is supported, and the captured workload may only be replayed only on Oracle Database 11g. This feature can be used only to facilitate upgrades from Oracle9i Database Release 2 to Oracle Database 11g or higher.</td>
</tr>
<tr>
<td></td>
<td>The functionality available on Oracle Database 10g Release 2 is as follows:</td>
</tr>
<tr>
<td></td>
<td>• <strong>Database Replay</strong>: Only the Workload Capture feature is supported, and the captured workload may be replayed only on Oracle Database 11g. This feature can be used only to facilitate upgrades from Oracle Database 10g Release 2 to Oracle Database 11g.</td>
</tr>
<tr>
<td></td>
<td>• <strong>SQL Performance Analyzer</strong>: Only the Remote SQL Test Execute and SQL Capture into SQL Tuning Set features are supported. These features can be used only to facilitate upgrades from Oracle9i Database Release 2 and Oracle Database 10g Release 1 to Oracle Database 10g Release 2 or higher. When upgrading to Oracle Database 10g Release 2 from earlier releases (Oracle 9i Database or Oracle Database 10g Release 1), Oracle Database 11g is needed to remotely execute SQL on the target database (that is, Oracle Database 10g Release 2). Oracle Real Application Testing licensing is required for both systems, Oracle Database 10g Release 2 and Oracle Database 11g.</td>
</tr>
<tr>
<td>Oracle Secure Backup</td>
<td>For backup of Oracle Database Enterprise Edition, Oracle Secure Backup includes restricted use licenses for:</td>
</tr>
<tr>
<td>Oracle Secure Backup Cloud Module</td>
<td>• RMAN backup encryption to tape or Amazon S3</td>
</tr>
<tr>
<td></td>
<td>• RMAN backup compression leveraging LOW, MEDIUM, BASIC or HIGH algorithms</td>
</tr>
<tr>
<td></td>
<td>The Oracle Secure Backup special-use licenses apply to RMAN backup encryption, which is a component of the Oracle Advanced Security option, and RMAN backup compression levels, which are components of the Oracle Advanced Compression option. To use additional features of the Oracle Advanced Security option or the Oracle Advanced Compression option, you must license those options separately. In addition, the Oracle Advanced Security option must be licensed when performing RMAN encrypted backups directly to disk whether or not Oracle Secure Backup is the media manager.</td>
</tr>
<tr>
<td>Oracle Secure Backup Express</td>
<td>Oracle Secure Backup Express is bundled with the Oracle Database. Support for Oracle Secure Backup Express is provided exclusively through a free Oracle Discussion Forum monitored by Oracle employees as well as community experts. Oracle Secure Backup Express can back up an Oracle database as well as Oracle home files and other file system data requiring tape protection. For more information, refer to Oracle Secure Backup Licensing Information.</td>
</tr>
<tr>
<td>Feature / Option</td>
<td>Licensing Information</td>
</tr>
<tr>
<td>--------------------------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Oracle Spatial and Graph</td>
<td>These Oracle Spatial and Graph components can be installed and used on a server different from the server where the Oracle Database is installed and used without a separate license: • Spatial Geocoder • Spatial Routing engine • Spatial Web Services • Property Graph client • In-memory analyst (PGX) • Spatial Visualization component • Spatial Studio For more information, see Oracle Spatial and Graph Developer’s Guide and Oracle Spatial and Graph Property Graph Developer’s Guide.</td>
</tr>
<tr>
<td>Oracle Wallet</td>
<td>An Oracle Wallet is a PKCS#12 container used to store authentication and encryption keys. The Oracle database secure external password store feature stores passwords in an Oracle Wallet for password-based authentication to the Oracle database. The Oracle Wallet may also be used to store credentials for PKI authentication to the Oracle Database, configuration of network encryption (SSL/TLS), and Oracle Advanced Security transparent data encryption (TDE) master encryption keys. Network encryption (native network encryption, network data integrity, and SSL/TLS) and strong authentication services (Kerberos, PKI, and RADIUS) are no longer part of Oracle Advanced Security and are available in all licensed editions of all supported releases of Oracle Database.</td>
</tr>
<tr>
<td>Shard Director</td>
<td>The shard directors can be installed and used on a server different from the server where the Oracle Database is installed and used. It is not necessary to obtain a separate license for the server running the shard directors.</td>
</tr>
<tr>
<td>XStream</td>
<td>XStream provides application programming interfaces (APIs) that enable client applications to receive real-time data changes from an Oracle database (using XStream Out APIs) and to send real-time data changes to an Oracle database (using XStream In APIs). These data changes can be shared between Oracle databases and other systems, such as filesystems and non-Oracle databases. XStream is licensed via the Oracle GoldenGate product. You must purchase a license for this product before using the XStream APIs. Please contact your Oracle sales representative for additional information.</td>
</tr>
</tbody>
</table>
### 1.8 Restricted Use Licenses

#### Table 1-17  Restricted Use Licenses

<table>
<thead>
<tr>
<th>Feature / Option</th>
<th>Licensing Information</th>
</tr>
</thead>
</table>
| Oracle Advanced Security               | Any Oracle Advanced Security licenses purchased on or before January 31, 2004, have restricted use of the Oracle Internet Directory (OID) component of Oracle Directory Services Plus to support Enterprise User Security. Oracle Advanced Security includes a restricted use license for the following Oracle Enterprise Manager features:  
  - Application Data Models (previously called Data Discovery and Modeling)  
  - Sensitive Column Types and Sensitive Data Discovery  
  - Application Accelerators  
  If you want to use the Oracle Enterprise Manager features listed above not solely for the purposes of Oracle Advanced Security, then you must purchase a full-use license for Oracle Data Masking and Subsetting Pack. |
| Oracle Application Server Containers for J2EE | A restricted use license for Oracle Application Server Containers for J2EE (OC4J) is included with all editions (except for Oracle Database Express Edition). This embedded version is provided solely to support Oracle Enterprise Manager (Database and Cloud Control), Advanced Queuing Servlet, Ultra Search, and Application Express, and may not be used or deployed for other purposes. |
| Oracle Applications Unlimited          | An Oracle Database Cloud Service Enterprise Edition (DBCS-EE) instance being used to support an Oracle Cloud deployment of an Oracle Applications Unlimited application has restricted use of the following options: Oracle On-Line Analytical Processing (OLAP) and Oracle Partitioning. These options may be used only to support Oracle Applications Unlimited and may not be used or deployed for any other purpose. |
| Oracle Big Data SQL                    | Oracle Big Data SQL includes a Query Server that is used to query data sources including HDFS, Kafka, and NoSQL stores. Oracle Big Data SQL includes a restricted use license of Oracle Database for storing metadata (i.e. external tables and views) maintained by the Query Server. No other objects may be created in this Oracle Database. |
| Oracle Database Mobile Server          | Oracle Database Mobile Server is a powerful tool for controlling networks of mobile or embedded devices from a centralized management console. It provides a secure, scalable method for connecting applications running locally on mobile or embedded devices to an Oracle enterprise backend. The synchronization system is robust and fault tolerant. It is able to successfully synchronize over unreliable or intermittently available networks. Oracle Database Mobile Server provides management for applications, users, and devices. It runs on a variety of application server platforms, including Oracle WebLogic, Oracle Glassfish, and Apache TomEE.  
  On the client device side, it is designed to work with Oracle Berkeley DB as a data store, providing efficient, reliable, and secure data management running locally on mobile and embedded devices. It is also compatible with SQLite, a widely used open source data store. Database Mobile Server supports many popular device platforms including Oracle Java, Linux, Windows (laptop as well as mobile/CE), and Android. |
Table 1-17 (Cont.) Restricted Use Licenses

<table>
<thead>
<tr>
<th>Feature / Option</th>
<th>Licensing Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oracle Database Vault</td>
<td>Oracle Database Vault includes a restricted use license for the following Oracle Enterprise Management features:</td>
</tr>
<tr>
<td></td>
<td>• Application Data Modeling (previously called Data Discovery and Modeling)</td>
</tr>
<tr>
<td></td>
<td>• Application Data Modeling accelerator for select versions of Oracle E-Business Suite</td>
</tr>
<tr>
<td></td>
<td>• Application Data Modeling accelerator for select versions of Oracle Fusion Applications</td>
</tr>
<tr>
<td>Oracle HTTP Server</td>
<td>A restricted use license for Oracle HTTP Server is included with all editions (except for Oracle Database Express Edition) when the HTTP Server is running</td>
</tr>
<tr>
<td></td>
<td>on the same server as the database. Running Oracle HTTP server on a different server requires that other server be licensed to use the HTTP server,</td>
</tr>
<tr>
<td></td>
<td>either through an Oracle Database license or an Oracle Application Server license</td>
</tr>
<tr>
<td>Oracle Internet Directory</td>
<td>A restricted use license for Oracle Identity Management Directory Services Plus component Oracle Internet Directory (OID) is included with all editions (except</td>
</tr>
<tr>
<td></td>
<td>for Oracle Database Express Edition) if users use the Directory Naming feature to configure Oracle Net Services. OID may not be used or deployed for other uses.</td>
</tr>
<tr>
<td>Oracle Label Security</td>
<td>Oracle Label Security includes a restricted use license for the following Oracle Enterprise Manager features:</td>
</tr>
<tr>
<td></td>
<td>• Application Data Models (previously called Data Discovery and Modeling)</td>
</tr>
<tr>
<td></td>
<td>• Sensitive Column Types and Sensitive Data Discovery</td>
</tr>
<tr>
<td></td>
<td>• Application Accelerators</td>
</tr>
<tr>
<td></td>
<td>If you want to use the Oracle Enterprise Manager features listed above not solely for the purposes of Oracle Label Security, then you must purchase a</td>
</tr>
<tr>
<td></td>
<td>full-use license for Oracle Data Masking and Subsetting Pack.</td>
</tr>
<tr>
<td>Oracle Multitenant</td>
<td>A restricted use license is included with all Oracle Database offerings that permits you to use the container database architecture in single-tenant mode</td>
</tr>
<tr>
<td></td>
<td>without the Oracle Multitenant option license. Single-tenant mode is defined as one user-created pluggable database, and, optionally, one user-created</td>
</tr>
<tr>
<td></td>
<td>application root, and one user-created proxy pluggable database.</td>
</tr>
<tr>
<td>Oracle Programmer</td>
<td>Oracle Programmer provides application programmers with a programmatic interface to any edition of Oracle Database. However, in order to use Oracle</td>
</tr>
<tr>
<td></td>
<td>Programmer, you must purchase a separate Oracle Programmer license.</td>
</tr>
<tr>
<td></td>
<td>Oracle Programmer includes the following products:</td>
</tr>
<tr>
<td></td>
<td>• Embedded SQL-style interfaces: Pro<em>C/C++, Pro</em>COBOL, Pro<em>Fortran, SQL</em>Module for Ada, SQLJ</td>
</tr>
<tr>
<td></td>
<td>• Utilities to generate host-language bindings from database schemas: Object Type Translator and JPub</td>
</tr>
<tr>
<td>Oracle Real Application Testing</td>
<td>Restricted use licenses of Load Testing Accelerator for Oracle Database, Oracle Load Testing, and Oracle Load Testing Controller are included with</td>
</tr>
<tr>
<td>Oracle Secure Backup Express</td>
<td>Oracle Secure Backup Express is a centralized tape backup management solution that provides data protection for single-server Oracle Database environments. A</td>
</tr>
<tr>
<td></td>
<td>restricted use license for Oracle Secure Backup Express is included with all Oracle Database editions. Oracle Secure Backup Express is limited to a single</td>
</tr>
<tr>
<td></td>
<td>host with one direct-attached tape drive and has some restrictions on advanced feature usage. Refer to the Oracle Secure Backup Licensing Information for</td>
</tr>
<tr>
<td></td>
<td>additional information.</td>
</tr>
</tbody>
</table>
### Table 1-17  (Cont.) Restricted Use Licenses

<table>
<thead>
<tr>
<th>Feature / Option</th>
<th>Licensing Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oracle Sharding</td>
<td>Oracle Sharding includes a restricted use license for Global Data Services. If you want to use Global Data Services not solely for the purposes of Oracle Sharding, then you must be licensed for the Oracle Active Data Guard option.</td>
</tr>
<tr>
<td>Oracle Spatial and Graph</td>
<td>Restricted use of Oracle Partitioning is allowed on all offerings, free of charge, for the sole purpose of supporting the following Spatial, Property Graph, and RDF Graph Technologies (RDF/OWL) features: spatial topology, property graph schema, and RDF Semantic Graph. All other uses of Oracle Partitioning require a license for the Oracle Partitioning option, where available.</td>
</tr>
</tbody>
</table>
2

Third-Party Notices and/or Licenses

2.1 Commercial Software

Commercial software products or components distributed in Oracle Database 18c are identified in the following table along with the applicable licensing information.

<table>
<thead>
<tr>
<th>Provider</th>
<th>Component(s)</th>
<th>Licensing Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>DataDirect Technology</td>
<td>DataDirect</td>
<td>The DataDirect component provided with this Oracle Program is distributed only for use with Oracle Program.</td>
</tr>
<tr>
<td>Frederico Caldiera Knabben (FredCK.com)</td>
<td>CKEditor 4.5.11</td>
<td>© 2003 - 2010 CKSource - Frederico Knabben. All rights reserved. This product is licensed under the Apache 2.0 license agreement. See The Apache Software License, Version 2.0.</td>
</tr>
<tr>
<td>MapInfo Corp.</td>
<td>Projections Code 1.0</td>
<td>Portions of this software Copyright 1992-2000, MapInfo Corporation, ALL RIGHTS RESERVED.</td>
</tr>
<tr>
<td>Microsoft</td>
<td>Microsoft Visual Studio 2013 Redistributables</td>
<td>Must include Oracle copyright notice in Oracle applications containing the Distributable Code. Oracle must not use Microsoft's trademarks in Oracle program names or in a way that suggests Oracle programs come from or are endorsed by Microsoft.</td>
</tr>
<tr>
<td>Microsoft</td>
<td>Microsoft Visual Studio 2015 Redistributables</td>
<td>Must include Oracle copyright notice in Oracle applications containing the Distributable Code. Oracle must not use Microsoft's trademarks in Oracle program names or in a way that suggests Oracle programs come from or are endorsed by Microsoft.</td>
</tr>
<tr>
<td>RSA</td>
<td>Micro Edition Suite (MES)</td>
<td>This product includes code licensed from RSA Data Security. See Figure 2-1.</td>
</tr>
<tr>
<td>Sibental, Inc.</td>
<td>AnyChart 6.0</td>
<td>Any attempt to unbundle the AnyChart Flash Chart Component from an Oracle product, or to use the AnyChart Flash Chart Component outside of the Oracle product will be in violation of this license and will result in the immediate termination of this license.</td>
</tr>
</tbody>
</table>

Flash chart support in Oracle Application Express is based on the Anychart Flash Chart Component. Anychart is a flexible Macromedia Flash-based solution that enables developers to create animated, compact, interactive flash charts. Flash charts are rendered by a browser and require Flash player 8 or later. Flash charts used in interactive reports require Flash Player 9 or later. For more information about Anychart, go to: http://www.anychart.com
2.2 Open Source or Other Separately Licensed Software

Required notices for open source or other separately licensed software products or components distributed in Oracle Database 18c are identified in the following table along with the applicable licensing information. Additional notices and/or licenses may be found in the included documentation or readme files of the individual third party software.

Table 2-2  Open Source or Other Separately Licensed Software

<table>
<thead>
<tr>
<th>Provider</th>
<th>Component(s)</th>
<th>Licensing Information</th>
</tr>
</thead>
</table>
| ANTLR   | Antlr 3.1.3, 3.2 | ANTLR 3 License
|          |              | [The BSD License] |
|          |              | Copyright (c) 2003-2007, Terence Parr |
|          |              | All rights reserved. |
|          |              | Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: |
|          |              | • Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. |
|          |              | • Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. |
|          |              | • Neither the name of the author nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission. |
|          |              | THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. |
Table 2-2  (Cont.) Open Source or Other Separately Licensed Software

<table>
<thead>
<tr>
<th>Provider</th>
<th>Component(s)</th>
<th>Licensing Information</th>
</tr>
</thead>
</table>
| Adam Shaw         | FullCalendar 2.9.1 | Copyright (c) 2013 Adam Shaw  
Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE. |
| Alexander Potochkin | JXLayer 4.0   | Copyright (c) 2006-2009, Alexander Potochkin All rights reserved.  
Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- Neither the name of the JXLayer project nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. |
<p>| Alexis Sellier    | Less.js 1.7       | This product is licensed under the Apache 2.0 license agreement. See <a href="http://www.apache.org/licenses/LICENSE-2.0">The Apache Software License, Version 2.0.</a> |</p>
<table>
<thead>
<tr>
<th>Provider</th>
<th>Component(s)</th>
<th>Licensing Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Apache</td>
<td>Apache Commons Logging 1.0.4, 1.1</td>
<td>Copyright 2003-2007 The Apache Software Foundation. This product includes software developed by The Apache Software Foundation (<a href="http://www.apache.org/">http://www.apache.org/</a>). This product is licensed under the Apache 2.0 license agreement. See The Apache Software License, Version 2.0.</td>
</tr>
<tr>
<td>Apache</td>
<td>Apache Commons Math 3.6.1</td>
<td>For a copy of the license, see Apache Commons Math 3.6.1 License.</td>
</tr>
<tr>
<td>Apache</td>
<td>Apache Geronimo JMS 1.1 Specification 1.0, 1.1</td>
<td>This product is licensed under the Apache 2.0 license agreement. See The Apache Software License, Version 2.0.</td>
</tr>
<tr>
<td>Apache</td>
<td>Apache POI 3.10.1</td>
<td>Apache POI Copyright 2009 The Apache Software Foundation. This product includes software developed by The Apache Software Foundation (<a href="http://www.apache.org/">http://www.apache.org/</a>). This product contains the DOM4J library (<a href="http://www.dom4j.org">http://www.dom4j.org</a>). Copyright 2001-2005 (C) MetaStuff, Ltd. All Rights Reserved. This product contains parts that were originally based on software from BEA. Copyright (c) 2000-2003, BEA Systems, <a href="http://www.bea.com/">http://www.bea.com/</a>. This product contains W3C XML Schema documents. Copyright 2001-2003 (c) World Wide Web Consortium (Massachusetts Institute of Technology, European Research Consortium for Informatics and Mathematics, Keio University) This product contains the Piccolo XML Parser for Java (<a href="http://piccolo.sourceforge.net/">http://piccolo.sourceforge.net/</a>). Copyright 2002 Yuval Oren. This product contains the chunks_parsecmds.tbl file from the vsdump program. Copyright (C) 2006-2007 Valek Filippov (<a href="mailto:frob@df.ru">frob@df.ru</a>) This product is licensed under the Apache 2.0 license agreement. See The Apache Software License, Version 2.0.</td>
</tr>
<tr>
<td>Apache</td>
<td>Apache Tomcat 8.5.32</td>
<td>For a copy of the license, see Apache Tomcat 8.5.32 License.</td>
</tr>
<tr>
<td>Apache</td>
<td>Apache Tomcat 8.5.39</td>
<td>For a copy of the license, see Apache Tomcat 8.5.39 License.</td>
</tr>
<tr>
<td>Apache</td>
<td>Batik SVG Toolkit 1.9</td>
<td>For a copy of the license, see Apache Batik SVG Toolkit 1.9 License.</td>
</tr>
<tr>
<td>Apache</td>
<td>Batik SVG Toolkit 1.10</td>
<td>For a copy of the license, see Apache Batik SVG Toolkit 1.10 License.</td>
</tr>
<tr>
<td>Apache</td>
<td>Commons CLI 1.2</td>
<td>Apache Commons CLI Copyright 2001-2009 The Apache Software Foundation This product includes software developed by The Apache Software Foundation (<a href="http://www.apache.org/">http://www.apache.org/</a>). This product is licensed under the Apache 2.0 license agreement. See The Apache Software License, Version 2.0.</td>
</tr>
</tbody>
</table>
Table 2-2  (Cont.) Open Source or Other Separately Licensed Software

<table>
<thead>
<tr>
<th>Provider</th>
<th>Component(s)</th>
<th>Licensing Information</th>
</tr>
</thead>
</table>
| Apache         | Commons Collections 3.2.2     | Apache Commons Collections  
Copyright 2001-2008 The Apache Software Foundation  
This product includes software developed by  
The Apache Software Foundation (http://www.apache.org/).  
This product is licensed under the Apache 2.0 license agreement.  
See The Apache Software License, Version 2.0.                                                                                                                                                                                                 |
| Apache         | Commons Configuration 2.2     | This product is licensed under the Apache 2.0 license agreement.  
See The Apache Software License, Version 2.0.                                                                                                                                                                                                                                                                 |
| Apache         | Commons FileUpload 1.3.2      | Apache Commons FileUpload  
Copyright 2002-2008 The Apache Software Foundation  
This product includes software developed by  
The Apache Software Foundation (http://www.apache.org/).  
You may not use the identified files except in compliance with the  
Apache License, Version 2.0 (the "License.")  
You may obtain a copy of the License at http://www.apache.org/licenses/LICENSE-2.0. A copy of the license is also reproduced below.  
Unless required by applicable law or agreed to in writing, software  
distributed under the License is distributed on an "AS IS" BASIS,  
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either  
express or implied.  
See the License for the specific language governing permissions  
and limitations under the License.  
This product is licensed under the Apache 2.0 license agreement.  
See The Apache Software License, Version 2.0.                                                                                                                                                                                                 |
| Apache         | Commons FileUpload 1.3.3      | Apache Commons FileUpload  
Copyright 2002-2017 The Apache Software Foundation  
This product includes software developed at  
The Apache Software Foundation (http://www.apache.org/).  
This product is licensed under the Apache 2.0 license agreement.  
See The Apache Software License, Version 2.0.                                                                                                                                                                                                 |
| Apache         | Commons HttpClient 4.2.6      | This product is licensed under the Apache 2.0 license agreement.  
See The Apache Software License, Version 2.0.                                                                                                                                                                                                                                                                 |
| Apache         | Commons IO 2.5                | Apache Commons IO  
Copyright 2002-2017 The Apache Software Foundation  
This product includes software developed by The Apache Software Foundation (http://www.apache.org/).  
This product is licensed under the Apache 2.0 license agreement.  
See The Apache Software License, Version 2.0.                                                                                                                                                                                                 |
| Apache         | Commons Lang 3.6              | Apache Commons Lang  
Copyright 2001-2011 The Apache Software Foundation  
This product includes software developed by The Apache Software Foundation (http://www.apache.org/).  
This product is licensed under the Apache 2.0 license agreement.  
See The Apache Software License, Version 2.0.                                                                                                                                                                                                 |
### Table 2-2 (Cont.) Open Source or Other Separately Licensed Software

<table>
<thead>
<tr>
<th>Provider</th>
<th>Component(s)</th>
<th>Licensing Information</th>
</tr>
</thead>
</table>
| Apache     | Commons Logging 1.2 | Apache Commons Logging  
Copyright 2003-2014 The Apache Software Foundation  
This product includes software developed at The Apache Software  
Foundation (http://www.apache.org/).  
This product is licensed under the Apache 2.0 license agreement.  
See [The Apache Software License, Version 2.0](#). |
| Apache     | Commons Logging 1.2 | Notice:  
//  
 ---------------------------------------------  
// NOTICE file corresponding to the section 4d of  
The  
// Apache License, Version 2.0, in this case for  
// Commons Logging  
//  
 ---------------------------------------------  
Commons Logging  
Copyright 2003-2014 The Apache Software Foundation  
This product includes/uses software(s) developed by an unknown  
organization'  
• Unnamed - avalon-framework:avalon-framework:jar:4.1.3  
• Unnamed - log4j:log4j:jar:1.2.12  
• Unnamed - logkit:logkit:jar:1.0.1  
This product is licensed under the Apache 2.0 license agreement.  
See [The Apache Software License, Version 2.0](#). |
| Apache     | Commons Math 3.6.1 | Copyright 2001-2016 The Apache Software Foundation  
This product is licensed under the Apache 2.0 license agreement.  
See [The Apache Software License, Version 2.0](#). |
<table>
<thead>
<tr>
<th>Provider</th>
<th>Component(s)</th>
<th>Licensing Information</th>
</tr>
</thead>
</table>
| Apache   | Groovy 2.4.11      | Groovy Language  
Copyright 2003-2017 The respective authors and developers  
Developers and Contributors are listed in the project POM file and Gradle build file  
This product includes software developed by  
The Groovy community (http://groovy.codehaus.org/).  

====================================================================  
==  NOTICE file corresponding to the section 4 d  
==  of the Apache License, Version 2.0, in this  
==  case for the Groovy Language distribution.  
==  =========================================================================  
==  
This product is licensed under the Apache 2.0 license agreement.  
See The Apache Software License, Version 2.0.                        |
| Apache   | HttpComponents     | Apache HttpComponents  
Copyright 2005-2014 The Apache Software Foundation  
This product includes software developed at  
The Apache Software Foundation (http://www.apache.org/).  
This project contains annotations derived from JCIP-ANNOTATIONS  
Copyright (c) 2005 Brian Goetz and Time Peierls. See http://www.jcip.net  
This product is licensed under the Apache 2.0 license agreement.  
See The Apache Software License, Version 2.0.                        |
| Apache   | HttpComponents     | Apache HTTPComponents  
Apache HTTPClient  
This product is licensed under the Apache 2.0 license agreement.  
See The Apache Software License, Version 2.0.                        |
| Apache   | Jansi 1.11         | This product is licensed under the Apache 2.0 license agreement.  
See The Apache Software License, Version 2.0.                        |
| Apache   | Log4J 1.2.8, 1.2.13, 1.2.15, 1.3 | This product is licensed under the Apache 2.0 license agreement.  
See The Apache Software License, Version 2.0.                        |
| Apache   | Log4J 1.2.17       | Apache log4j  
Copyright 2007 The Apache Software Foundation  
This product includes software developed at The Apache Software Foundation (http://www.apache.org/).  
This product is licensed under the Apache 2.0 license agreement.  
See The Apache Software License, Version 2.0.                        |
<table>
<thead>
<tr>
<th>Provider</th>
<th>Component(s)</th>
<th>Licensing Information</th>
</tr>
</thead>
</table>
| Apache     | Log4J 2.9.1                   | Copyright 1999-2017 Apache Software Foundation  
This product includes software developed at  
The Apache Software Foundation (http://www.apache.org/).  
ResolverUtil.java  
Copyright 2005-2006 Tim Fennell  
Dumbster SMTP test server  
Copyright 2004 Jason Paul Kitchen  
TypeUtil.java  
Copyright 2002-2012 Ramnivas Laddad, Juergen Hoeller, Chris Beams  
picocli (http://picocli.info)  
Copyright 2017 Remko Popma  
This product is licensed under the Apache 2.0 license agreement. See The Apache Software License, Version 2.0. |
| Apache     | Lucene 6.1.0                  | This product is licensed under the Apache 2.0 license agreement. See The Apache Software License, Version 2.0.                                               |
| Apache     | Regular Expression Package 1.3 | Jakarta Regexp Version 1.3, Copyright © 1999-2002 The Apache Software Foundation. All rights reserved. Licensed under the Apache 1.1 License Agreement.  
The names "The Jakarta Project", "Jakarta-Regexp", and "Apache Software Foundation" must not be used to endorse or promote products derived from this software without prior written permission. For written permission, please contact apache@apache.org.  
This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see http://www.apache.org/.  
This product is licensed under the Apache 1.1 license agreement. See The Apache Software License, Version 1.1. |
| Apache     | TinkerPop Gremlin Server 3.3.1 | For a copy of the license, see TinkerPop Gremlin Server 3.3.1 License.                                                                                   |
| Apache     | XML Commons External 1.4.01   | Apache XML Commons XML APIs  
Copyright 1999-2009 The Apache Software Foundation.  
This product includes software developed at  
The Apache Software Foundation (http://www.apache.org/).  
Portions of this software were originally based on the following:  
• software copyright (c) 2000 World Wide Web Consortium, http://www.w3.org  
This product is licensed under the Apache 2.0 license agreement. See The Apache Software License, Version 2.0. |
Table 2-2  (Cont.) Open Source or Other Separately Licensed Software

<table>
<thead>
<tr>
<th>Provider</th>
<th>Component(s)</th>
<th>Licensing Information</th>
</tr>
</thead>
</table>
| Apache   | Xerces2 Java 2.11.0  | Copyright 1999-2010 The Apache Software Foundation  
This product includes software developed at  
The Apache Software Foundation (http://www.apache.org/).  
Portions of this software were originally based on the following:  
• voluntary contributions made by Paul Eng on behalf of the Apache Software Foundation that were originally developed at iClick, Inc., software copyright (c) 1999.  
This product is licensed under the Apache 2.0 license agreement.  
See The Apache Software License, Version 2.0. |
| Apache   | ant 1.9.6            | For a copy of the license, see ant 1.9.6 License.                                                                                                     |
| Apache   | commons-cli 1.3.1    | This product is licensed under the Apache 2.0 license agreement.  
See The Apache Software License, Version 2.0.                                                                 |
| Apache   | commons-lang 2.6     | Apache Commons Lang  
Copyright 2001-2010 The Apache Software Foundation  
This product includes software developed by The Apache Software Foundation (http://www.apache.org/).  
This product is licensed under the Apache 2.0 license agreement.  
See The Apache Software License, Version 2.0. |
| Apache   | commons-lang3  3.5   | Apache Commons Lang  
Copyright 2001-2011 The Apache Software Foundation  
This product includes software developed by The Apache Software Foundation (http://www.apache.org/).  
This product includes software from the Spring Framework,under the Apache License 2.0 (see: StringUtils.containsWhitespace())  
This product is licensed under the Apache 2.0 license agreement.  
See The Apache Software License, Version 2.0. |
| Apache   | httpmime 4.5.1       | This product is licensed under the Apache 2.0 license agreement.  
See The Apache Software License, Version 2.0.                                                                 |
| Apache   | httpmime 4.5.4       | Apache HttpClient Mime  
Copyright 1999-2017 The Apache Software Foundation  
This product is licensed under the Apache 2.0 license agreement.  
See The Apache Software License, Version 2.0.                                                                 |
| Apache   | jackson-annotations 2.7.5 | This copy of Jackson JSON processor annotations is licensed under the Apache (Software) License, version 2.0 ("the License").  
See the License for details about distribution rights, and the specific rights regarding derivate works.  
You may obtain a copy of the License at:  
http://www.apache.org/licenses/LICENSE-2.0  
This product is licensed under the Apache 2.0 license agreement.  
See The Apache Software License, Version 2.0. |
<table>
<thead>
<tr>
<th>Provider</th>
<th>Component(s)</th>
<th>Licensing Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Apache</td>
<td>jackson-core 2.7.5</td>
<td>This copy of Jackson JSON processor streaming parser/generator is licensed under the Apache (Software) License, version 2.0 (&quot;the License&quot;).</td>
</tr>
<tr>
<td></td>
<td></td>
<td>See the License for details about distribution rights, and the specific rights regarding derivate works.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>You may obtain a copy of the License at:</td>
</tr>
<tr>
<td></td>
<td></td>
<td><a href="http://www.apache.org/licenses/LICENSE-2.0">http://www.apache.org/licenses/LICENSE-2.0</a></td>
</tr>
<tr>
<td>Apache</td>
<td>lucene-core 4.10.3</td>
<td>This product is licensed under the Apache 2.0 license agreement.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>See <a href="http://www.apache.org/licenses/LICENSE-2.0">The Apache Software License, Version 2.0</a>.</td>
</tr>
<tr>
<td>Apple Computer</td>
<td>Apple MDNS (Bonjour) 544-1</td>
<td>Apple MDNS (Bonjour) Copyright (c) 2002-2013 Apple Computer, Inc.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>All rights reserved.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Licensed under the Apache License, Version 2.0 (the &quot;License&quot;)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>To accommodate license compatibility with the widest possible range of client code licenses, the shared library code, which is linked at runtime into the same address space as the client using it, is licensed under the terms of the &quot;Three-Clause BSD License&quot;.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The Linux Name Service Switch code, contributed by National ICT Australia Ltd (NICTA) is licensed under the terms of the NICTA Public Software Licence (which is substantially similar to the &quot;Three-Clause BSD License&quot;, with some additional language pertaining to Australian law).</td>
</tr>
<tr>
<td></td>
<td></td>
<td>This product is licensed under the Apache 2.0 license agreement.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>See <a href="http://www.apache.org/licenses/LICENSE-2.0">The Apache Software License, Version 2.0</a>.</td>
</tr>
<tr>
<td>CPAN</td>
<td>Perl 5.22.0</td>
<td>For a copy of the license, see <a href="https://www.perl.org/misc/License.html">Perl 5.22.0 License</a>.</td>
</tr>
<tr>
<td>Codehaus</td>
<td>Jackson 1.9.3</td>
<td>This product is licensed under the Apache 2.0 license agreement.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>See <a href="http://www.apache.org/licenses/LICENSE-2.0">The Apache Software License, Version 2.0</a>.</td>
</tr>
<tr>
<td>Codehaus</td>
<td>Jettison 1.3.1</td>
<td>Copyright 2006 Envoi Solutions LLC.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>This product is licensed under the Apache 2.0 license agreement.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>See <a href="http://www.apache.org/licenses/LICENSE-2.0">The Apache Software License, Version 2.0</a>.</td>
</tr>
<tr>
<td>Codehaus</td>
<td>Jettison 1.3.8</td>
<td>Copyright 2006 Envoi Solutions LLC.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>This product is licensed under the Apache 2.0 license agreement.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>See <a href="http://www.apache.org/licenses/LICENSE-2.0">The Apache Software License, Version 2.0</a>.</td>
</tr>
<tr>
<td>Provider</td>
<td>Component(s)</td>
<td>Licensing Information</td>
</tr>
<tr>
<td>------------------------</td>
<td>-----------------------</td>
<td>------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
</tbody>
</table>
| Craig Michael Thompson | qTip 2                | qTip2 - Pretty powerful tooltips, Version: nightly Copyright 2009-2011 Craig Michael Thompson
Dual licensed under MIT or GPLv2 licenses
Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE. |
| FasterXML, LLC          | Jackson 2.8.5, 2.9.0, 2.9.3 | # Jackson JSON processor
Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.
## Credits
A list of contributors may be found from CREDITS file, which is included in some artifacts (usually source distributions); but is always available from the source code management (SCM) system project uses.
This product is licensed under the Apache 2.0 license agreement. See The Apache Software License, Version 2.0. |
| FasterXML, LLC          | jackson-annotations 2.9.5 | This product is licensed under the Apache 2.0 license agreement. See The Apache Software License, Version 2.0. |
| FasterXML, LLC          | jackson-core 2.9.2     | This copy of Jackson JSON processor streaming parser/generator is licensed under the Apache (Software) License, version 2.0 ("the License").
See the License for details about distribution rights, and the specific rights regarding derivative works.
You may obtain a copy of the License at: http://www.apache.org/licenses/LICENSE-2.0
This product is licensed under the Apache 2.0 license agreement. See The Apache Software License, Version 2.0. |
Table 2-2  (Cont.) Open Source or Other Separately Licensed Software

<table>
<thead>
<tr>
<th>Provider</th>
<th>Component(s)</th>
<th>Licensing Information</th>
</tr>
</thead>
</table>
| FasterXML, LLC | jackson-core 2.9.3     | # Jackson JSON processor  
Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.  
## Credits  
A list of contributors may be found from CREDITS file, which is included in some artifacts (usually source distributions); but is always available from the source code management (SCM) system project uses.  
This product is licensed under the Apache 2.0 license agreement. See [The Apache Software License, Version 2.0](http://www.apache.org/licenses/LICENSE-2.0). |
| FasterXML, LLC | jackson-core 2.9.5     | This product is licensed under the Apache 2.0 license agreement. See [The Apache Software License, Version 2.0](http://www.apache.org/licenses/LICENSE-2.0). |
| FasterXML, LLC | jackson-databind 2.9.5 | This product is licensed under the Apache 2.0 license agreement. See [The Apache Software License, Version 2.0](http://www.apache.org/licenses/LICENSE-2.0). |
| FasterXML, LLC | jackson-jaxrs-base 2.9.5 | This product is licensed under the Apache 2.0 license agreement. See [The Apache Software License, Version 2.0](http://www.apache.org/licenses/LICENSE-2.0). |
| FasterXML, LLC | jackson-jaxrs-json-provider 2.9.5 | This product is licensed under the Apache 2.0 license agreement. See [The Apache Software License, Version 2.0](http://www.apache.org/licenses/LICENSE-2.0). |
| FasterXML, LLC | jackson-module-jaxb-annotations 2.9.5 | This product is licensed under the Apache 2.0 license agreement. See [The Apache Software License, Version 2.0](http://www.apache.org/licenses/LICENSE-2.0). |
| Flot           | Flot 0.7, 0.8.1, 0.8.2, 0.8.x | Copyright © 2007 - 2013 IOLA and Ole Laursen  
Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:  
The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.  
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE. |
| FreeBSD        | MD5_Crypt 1.2          | * "THE BEER-WARE LICENSE" (Revision 42):  
<phk@login.dknet.dk> wrote this file. As long as you retain this notice you can do whatever you want with this stuff. If we meet some day, and you think this stuff is worth it, you can buy me a beer in return. Poul-Henning Kamp |
### Table 2-2 (Cont.) Open Source or Other Separately Licensed Software

<table>
<thead>
<tr>
<th>Provider</th>
<th>Component(s)</th>
<th>Licensing Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Geonames.org</td>
<td>GeoNames Data 1.1.11</td>
<td>For a copy of the license, see <a href="#">GeoNames Data 1.1.11 License</a>.</td>
</tr>
<tr>
<td>GitHub</td>
<td>Font Awesome 4.5</td>
<td>For a copy of the license, see <a href="#">Font Awesome 4.5 License</a>.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Original code is Copyright (c) 2010 Xuan Luo.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Original code was released under the GPLv3 license by Xuan Luo, September 2010.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Original code was rereleased under the MIT license by Xuan Luo, April 2012.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Permission is hereby granted, free of charge, to any person</td>
</tr>
<tr>
<td></td>
<td></td>
<td>obtaining a copy of this software and associated documentation files (the &quot;Software&quot;),</td>
</tr>
<tr>
<td></td>
<td></td>
<td>to deal in the Software without restriction, including</td>
</tr>
<tr>
<td></td>
<td></td>
<td>without limitation the rights to use, copy, modify, merge, publish, distribute,</td>
</tr>
<tr>
<td></td>
<td></td>
<td>sublicense, and/or sell copies of the Software, and to permit persons to whom the</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Software is furnished to do so, subject to the following conditions:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The above copyright notice and this permission notice shall be included in all copies</td>
</tr>
<tr>
<td></td>
<td></td>
<td>or substantial portions of the Software.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>THE SOFTWARE IS PROVIDED &quot;AS IS&quot;, WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED,</td>
</tr>
<tr>
<td></td>
<td></td>
<td>INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.</td>
</tr>
<tr>
<td>Provider</td>
<td>Component(s)</td>
<td>Licensing Information</td>
</tr>
<tr>
<td>----------</td>
<td>--------------</td>
<td>-----------------------</td>
</tr>
</tbody>
</table>
| GitHub   | jQuery-mobile-nestedlists | https://github.com/arschmitz/jquery-mobile-nestedlists/blob/master/LICENSE  
The MIT License (MIT)  
Copyright (c) 2013 Alexander Schmitz  
Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the “Software”), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:  
The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.  
THE SOFTWARE IS PROVIDED “AS IS”, WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE. |
| Google   | Google Guava R-11 | This product is licensed under the Apache 2.0 license agreement. See The Apache Software License, Version 2.0. |
| Google   | GoogleMaps API Code Samples | Portions of this code include modifications based on work created and shared by Google and used according to terms described in the Apache 2.0 license. See https://developers.google.com/maps/documentation/javascript/examples/. |
| Google   | Protocol Buffers (aka Google protobuf) 3.5.1 | For a copy of the license, see Protocol Buffers (aka Google protobuf) 3.5.1 License. |
### Table 2-2  (Cont.) Open Source or Other Separately Licensed Software

<table>
<thead>
<tr>
<th>Provider</th>
<th>Component(s)</th>
<th>Licensing Information</th>
</tr>
</thead>
</table>
| INRIA, France Telecom     | ASM 5.0.4    | Copyright (c) 2000-2011 INRIA, France Telecom  
All rights reserved.  
Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:  
1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.  
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.  
3. Neither the name of the copyright holders nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.  
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. |
Table 2-2  (Cont.) Open Source or Other Separately Licensed Software

<table>
<thead>
<tr>
<th>Provider</th>
<th>Component(s)</th>
<th>Licensing Information</th>
</tr>
</thead>
</table>
| Infozip  | zip 3.0      | Copyright (c) 1990-2007 Info-ZIP. All rights reserved. For the purposes of this copyright and license, “Info-ZIP” is defined as the following set of individuals: Mark Adler, John Bush, Karl Davis, Harald Denker, Jean-Michel Dubois, Jean-loup Gailly, Hunter Goatley, Ed Gordon, Ian Gorman, Chris Herorth, Dirk Haase, Greg Hartwig, Robert Heath, Jonathan Hudson, Paul Kienitz, David Kirschbaum, Johnny Lee, Onno van der Linden, Igor Mandrichenko, Steve P. Miller, Sergio Monesi, Keith Owens, George Petrov, Greg Roelofs, Kai Uwe Rommel, Steve Salisbury, Dave Smith, Steven M. Schweda, Christian Spieler, Cosmin Truta, Antoine Verheijen, Paul von Behren, Rich Wales, Mike White. This software is provided “as is,” without warranty of any kind, express or implied. In no event shall Info-ZIP or its contributors be held liable for any direct, indirect, incidental, special or consequential damages arising out of the use of or inability to use this software. Permission is granted to anyone to use this software for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the above disclaimer and the following restrictions:  

1. Redistributions of source code (in whole or in part) must retain the above copyright notice, definition, disclaimer, and this list of conditions.

2. Redistributions in binary form (compiled executables and libraries) must reproduce the above copyright notice, definition, disclaimer, and this list of conditions in documentation and/or other materials provided with the distribution. The sole exception to this condition is redistribution of a standard UnZipSFX binary (including SFXWiz) as part of a self-extracting archive; that is permitted without inclusion of this license, as long as the normal SFX banner has not been removed from the binary or disabled.

3. Altered versions--including, but not limited to, ports to new operating systems, existing ports with new graphical interfaces, versions with modified or added functionality, and dynamic, shared, or static library versions not from Info-ZIP--must be plainly marked as such and must not be misrepresented as being the original source or, if binaries, compiled from the original source. Such altered versions also must not be misrepresented as being Info-ZIP releases--including, but not limited to, labeling of the altered versions with the names "Info-ZIP" (or any variation thereof, including, but not limited to, different capitalizations), "Pocket UnZip," "WiZ" or "MacZip" without the explicit permission of Info-ZIP. Such altered versions are further prohibited from misrepresentative use of the Zip-Bugs or Info-ZIP e-mail addresses or the Info-ZIP URL(s), such as to imply Info-ZIP will provide support for the altered versions.

<table>
<thead>
<tr>
<th>Provider</th>
<th>Component(s)</th>
<th>Licensing Information</th>
</tr>
</thead>
</table>
| JCraft   | JSch 0.1.51  | Copyright (c) 2002-2010 Atsuhiko Yamanaka, JCraft, Inc. All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. The names of the authors may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED "AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL JCRAFT, INC. OR ANY CONTRIBUTORS TO THIS SOFTWARE BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. |
Table 2-2  (Cont.) Open Source or Other Separately Licensed Software

<table>
<thead>
<tr>
<th>Provider</th>
<th>Component(s)</th>
<th>Licensing Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>JCraft</td>
<td>JSch 0.1.54</td>
<td>Copyright (c) 2002-2014 Atsuhiko Yamanaka, JCraft,Inc. &lt;br&gt; All rights reserved. &lt;br&gt; Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: &lt;br&gt; 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. &lt;br&gt; 2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. &lt;br&gt; 3. The names of the authors may not be used to endorse or promote products derived from this software without specific prior written permission. &lt;br&gt; THIS SOFTWARE IS PROVIDED &quot;AS IS&quot; AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL JCRAFT, INC. OR ANY CONTRIBUTORS TO THIS SOFTWARE BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.</td>
</tr>
<tr>
<td>Provider</td>
<td>Component(s)</td>
<td>Licensing Information</td>
</tr>
<tr>
<td>----------</td>
<td>--------------</td>
<td>-----------------------</td>
</tr>
</tbody>
</table>
| JCraft   | JZlib 1.1.3  | Copyright (c) 2000-2011 ymnk, JCraft, Inc. All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:  
1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.  
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.  
3. The names of the authors may not be used to endorse or promote products derived from this software without specific prior written permission.  

THIS SOFTWARE IS PROVIDED "AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL JCRAFT, INC. OR ANY CONTRIBUTORS TO THIS SOFTWARE BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. |
<table>
<thead>
<tr>
<th>Provider</th>
<th>Component(s)</th>
<th>Licensing Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>JGoodies</td>
<td>JGoodies Looks 1.3.1</td>
<td>The BSD License for the JGoodies Looks</td>
</tr>
</tbody>
</table>

Copyright (c) 2003 JGoodies Karsten Lentzsch. All rights reserved.
Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- Neither the name of JGoodies Karsten Lentzsch nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
<table>
<thead>
<tr>
<th>Provider</th>
<th>Component(s)</th>
<th>Licensing Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>JGraph</td>
<td>jGraphX 2.1.0.9</td>
<td>Oracle provides the following as a notice only: JGraphX is licensed under the modern, 3 clause BSD license. The precise text of the license you receive the software under is here (<a href="http://www.jgraph.com/bsd.html">http://www.jgraph.com/bsd.html</a>). If you cannot understand it, do not use the software. License.txt included in software. Copyright (c) 2001-2009, JGraph Ltd All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: • Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. • Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. • Neither the name of JGraph Ltd nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission. Termination for Patent Action. This License shall terminate automatically, as will all licenses assigned to you by the copyright holders of this software, and you may no longer exercise any of the rights granted to you by this license as of the date you commence an action, including a cross-claim or counterclaim, against the copyright holders of this software or any licensee of this software alleging that any part of the JGraph, JGraphX and/or mxGraph software libraries infringe a patent. This termination provision shall not apply for an action alleging patent infringement by combinations of this software with other software or hardware. THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS &quot;AS IS&quot; AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.</td>
</tr>
</tbody>
</table>
Table 2-2  (Cont.) Open Source or Other Separately Licensed Software

<table>
<thead>
<tr>
<th>Provider</th>
<th>Component(s)</th>
<th>Licensing Information</th>
</tr>
</thead>
</table>
| Jean-loup Gailly and Mark Adler | Zlib Data Compression Library 1.2.8 | Copyright (C) 1995-2013 Jean-loup Gailly and Mark Adler
This software is provided 'as-is', without any express or implied warranty. In no event will the authors be held liable for any damages arising from the use of this software.
Permission is granted to anyone to use this software for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not claim that you wrote the original software. If you use this software in a product, an acknowledgment in the product documentation would be appreciated but is not required.

2. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.

3. This notice may not be removed or altered from any source distribution.

Jean-loup Gailly        Mark Adler
jloup@gzip.org          madler@alumni.caltech.edu

| John Resig               | Hotkeys 0.8                     | jQuery Hotkeys Plugin
Copyright 2010, John Resig
Dual licensed under the MIT or GPL Version 2 licenses.
Oracle has elected to receive the code under the MIT license.
Based upon the plugin by Tzury Bar Yochay:
http://github.com/tzuryby/hotkeys
Original idea by:

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
<table>
<thead>
<tr>
<th>Provider</th>
<th>Component(s)</th>
<th>Licensing Information</th>
</tr>
</thead>
</table>
| John Resig   | JQuery 1.12.3| Copyright (c) 2011 John Resig, http://jquery.com/  
Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the “Software”), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:  
The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.  
THE SOFTWARE IS PROVIDED “AS IS”, WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE. |
Table 2-2 (Cont.) Open Source or Other Separately Licensed Software

<table>
<thead>
<tr>
<th>Provider</th>
<th>Component(s)</th>
<th>Licensing Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>John Resig</td>
<td>JQuery 2.2.3</td>
<td>jQuery JavaScript Library v2.1.3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>* <a href="http://jquery.com/">http://jquery.com/</a></td>
</tr>
<tr>
<td></td>
<td></td>
<td>* Includes Sizzle.js</td>
</tr>
<tr>
<td></td>
<td></td>
<td>* <a href="http://sizzlejs.com/">http://sizzlejs.com/</a></td>
</tr>
<tr>
<td></td>
<td></td>
<td>* Copyright 2005, 2014 jQuery Foundation, Inc. and</td>
</tr>
<tr>
<td></td>
<td></td>
<td>* other contributors</td>
</tr>
<tr>
<td></td>
<td></td>
<td>* Released under the MIT license</td>
</tr>
<tr>
<td></td>
<td></td>
<td>* <a href="http://jquery.org/license">http://jquery.org/license</a></td>
</tr>
<tr>
<td></td>
<td></td>
<td>* Date: 2014-12-18T15:11Z</td>
</tr>
<tr>
<td></td>
<td></td>
<td>/*</td>
</tr>
</tbody>
</table>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
### Table 2-2  (Cont.) Open Source or Other Separately Licensed Software

<table>
<thead>
<tr>
<th>Provider</th>
<th>Component(s)</th>
<th>Licensing Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>John Resig</td>
<td>Metadata 2.1</td>
<td>Dual licensed under the MIT and GPL licenses:</td>
</tr>
<tr>
<td></td>
<td></td>
<td><a href="http://www.opensource.org/licenses/mit-license.php">http://www.opensource.org/licenses/mit-license.php</a></td>
</tr>
<tr>
<td></td>
<td></td>
<td><a href="http://www.gnu.org/licenses/gpl.html">http://www.gnu.org/licenses/gpl.html</a></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Revision: $Id: jquery.metadata.js 4187 2007-12-16 17:15:27Z joern.zaefferer $</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Oracle has elected to receive the code under MIT terms.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Copyright (c) 2006 John Resig, Yehuda Katz, Jörn Zaefferer, Paul McLanahan</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the &quot;Software&quot;), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>THE SOFTWARE IS PROVIDED &quot;AS IS&quot;, WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.</td>
</tr>
<tr>
<td>Manos Batsis</td>
<td>Sarissa 0.9.9.4</td>
<td>This product is licensed under the Apache 2.0 license agreement. See The Apache Software License, Version 2.0.</td>
</tr>
</tbody>
</table>
### Table 2-2  (Cont.) Open Source or Other Separately Licensed Software

<table>
<thead>
<tr>
<th>Provider</th>
<th>Component(s)</th>
<th>Licensing Information</th>
</tr>
</thead>
</table>
| Marc Prud'hommeaux | JLine 2.12.1 | Copyright (c) 2002-2006, Marc Prud'hommeaux  
< mwp1 @ cornell.edu >  
All rights reserved.  
Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:  
- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.  
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.  
- Neither the name of JLine nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.  
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. |
<table>
<thead>
<tr>
<th>Provider</th>
<th>Component(s)</th>
<th>Licensing Information</th>
</tr>
</thead>
</table>
| Marc Prud'hommeaux        | JLine 2.14.3  | Copyright (c) 2002-2016, the original author or authors. All rights reserved. http://www.opensource.org/licenses/bsd-license.php
Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
• Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
• Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
• Neither the name of JLine nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. |
| Marijn Haverbeke         | CodeMirror 5.16 | Copyright (C) 2016 by Marijn Haverbeke and others
Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE. |
<table>
<thead>
<tr>
<th>Provider</th>
<th>Component(s)</th>
<th>Licensing Information</th>
</tr>
</thead>
</table>
| Marijn Haverbeke              | CodeMirror 5.23.0 | Copyright (C) 2017 by Marijn Haverbeke and others  
Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:  
The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.  
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE. |
| Massachusetts Institute of Technology | Kerberos 1.15  | For a copy of the license, see Kerberos 1.15 License.                                                                                                                                 |

Table 2-2  (Cont.) Open Source or Other Separately Licensed Software
Table 2-2  (Cont.) Open Source or Other Separately Licensed Software

<table>
<thead>
<tr>
<th>Provider</th>
<th>Component(s)</th>
<th>Licensing Information</th>
</tr>
</thead>
</table>
| MetaStuff, Ltd.| dom4j 1.6.1  | Copyright 2001-2005 (C) MetaStuff, Ltd. All Rights Reserved. Redistribution and use of this software and associated documentation ("Software"), with or without modification, are permitted provided that the following conditions are met:  

1. Redistributions of source code must retain copyright statements and notices. Redistributions must also contain a copy of this document.  
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.  
3. The name "DOM4J" must not be used to endorse or promote products derived from this Software without prior written permission of MetaStuff, Ltd. For written permission, please contact dom4j-info@metastuff.com.  
4. Products derived from this Software may not be called "DOM4J" nor may "DOM4J" appear in their names without prior written permission of MetaStuff, Ltd. DOM4J is a registered trademark of MetaStuff, Ltd.  
5. Due credit should be given to the DOM4J Project - http://www.dom4j.org  

THIS SOFTWARE IS PROVIDED BY METASTUFF, LTD. AND CONTRIBUTORS "AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL METASTUFF, LTD. OR ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. |
<table>
<thead>
<tr>
<th>Provider</th>
<th>Component(s)</th>
<th>Licensing Information</th>
</tr>
</thead>
</table>
| Michael Bostock     | D3 (d3.js) 3.3.11 | Copyright (c) 2013, Michael Bostock  
|                     |              | All rights reserved.  
|                     |              | Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:  
|                     |              | • Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.  
|                     |              | • Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.  
|                     |              | • Neither the name of the Michael Bostock nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.  
|                     |              | THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. |
| Provider       | Component(s)   | Licensing Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|---------------|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------
| Michael Bostock | D3 (d3.js) 3.5.5 | Copyright (c) 2010-2015, Michael Bostock  
All rights reserved.  
Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:  
• Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.  
• Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.  
• The name Michael Bostock may not be used to endorse or promote products derived from this software without specific prior written permission.  
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. |
| Microsoft     | Entity Framework Source Code | Copyright (c) Microsoft Open Technologies, Inc. All rights reserved.  
Microsoft Open Technologies would like to thank its contributors, a list of whom are at http://aspnetwebstack.codeplex.com/wikipage?title=Contributors.  
Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at http://www.apache.org/licenses/LICENSE-2.0  
Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.  
This product is licensed under the Apache 2.0 license agreement. See The Apache Software License, Version 2.0. |
<table>
<thead>
<tr>
<th>Provider</th>
<th>Component(s)</th>
<th>Licensing Information</th>
</tr>
</thead>
</table>
| Modernizr             | Modernizr 2.6.2                        | Copyright (c) 2009-2013  
Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the “Software”), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:  
The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.  
THE SOFTWARE IS PROVIDED “AS IS”, WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE. |
| Noah Spurrier         | Pexpect 3.3                            | Copyright (c) 2013-2014, Pexpect development team  
Copyright (c) 2012, Noah Spurrier  
PERMISSION TO USE, COPY, MODIFY, AND/OR DISTRIBUTE THIS SOFTWARE FOR ANY PURPOSE WITH OR WITHOUT FEE IS HEREBY GRANTED, PROVIDED THAT THE ABOVE COPYRIGHT NOTICE AND THIS PERMISSION NOTICE APPEAR IN ALL COPIES. THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE. |
| Open Source Geospatial Foundation | Geospatial Data Abstraction Library/ OpenGIS Simple Features Reference Implementation (GDAL/OGR) 2.1 | For a copy of the license, see Geospatial Data Abstraction Library/ OpenGIS Simple Features Reference Implementation (GDAL/OGR) 2.1 License. |
Table 2-2  (Cont.) Open Source or Other Separately Licensed Software

<table>
<thead>
<tr>
<th>Provider</th>
<th>Component(s)</th>
<th>Licensing Information</th>
</tr>
</thead>
</table>
| Open Web Application Security Project (OWASP) | Enterprise Security API (ESAPI) 2.1.0.1 | Copyright (c) 2007, The OWASP Foundation. All rights reserved. Redistributions and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:  
  • Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.  
  • Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.  
  • Neither the name of OWASP nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.  
  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS “AS IS” AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. |
Table 2-2  (Cont.) Open Source or Other Separately Licensed Software

<table>
<thead>
<tr>
<th>Provider</th>
<th>Component(s)</th>
<th>Licensing Information</th>
</tr>
</thead>
</table>
| OpenJPEG          | OpenJPEG 2.1          | Copyright (c) 2002-2007, Communications and Remote Sensing Laboratory, Universite catholique de Louvain (UCL), Belgium  
|                   |                       | Copyright (c) 2002-2007, Professor Benoit Macq  
|                   |                       | Copyright (c) 2001-2003, David Janssens  
|                   |                       | Copyright (c) 2002-2003, Yannick Verschueren  
|                   |                       | Copyright (c) 2003-2007, Francois-Olivier Devaux and Antonin Descampe  
|                   |                       | Copyright (c) 2005, Herve Drolon, FreImage Team  
|                   |                       | All rights reserved.  
|                   |                       | Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:  
|                   |                       | 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.  
|                   |                       | 2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.  
|                   |                       | THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS 'AS IS' AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.  
| Oracle            | JavaScript Extension Toolkit (JET) 2.0.2 | For a copy of the license, see JavaScript Extension Toolkit (JET) 2.0.2 License.  
| Oracle            | JavaScript Extension Toolkit (JET) 3.0.0 | For a copy of the license, see JavaScript Extension Toolkit (JET) 3.0.0 License.  
| Oracle            | JavaScript Extension Toolkit (JET) 3.2.0 | For a copy of the license, see JavaScript Extension Toolkit (JET) 3.2.0 License.  

<table>
<thead>
<tr>
<th>Provider</th>
<th>Component(s)</th>
<th>Licensing Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Patrick Wolf</td>
<td>APEX Essentials 1.0</td>
<td>Copyright (c) 2008 Patrick Wolf (<a href="http://www.inside-oracle-apex.com/">http://www.inside-oracle-apex.com/</a>). Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the &quot;Software&quot;), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions: The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software. THE SOFTWARE IS PROVIDED &quot;AS IS&quot;, WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.</td>
</tr>
<tr>
<td>Python</td>
<td>Python 2.7.14</td>
<td>For a copy of the license, see Python 2.7.14 License.</td>
</tr>
<tr>
<td>Python</td>
<td>Python 3.5.3</td>
<td>For a copy of the license, see Python 3.5.3 License.</td>
</tr>
<tr>
<td>QOS.ch</td>
<td>SLF4J 1.7.25</td>
<td>Copyright (c) 2004-2013 QOS.ch All rights reserved. Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the &quot;Software&quot;), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions: The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software. THE SOFTWARE IS PROVIDED &quot;AS IS&quot;, WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.</td>
</tr>
<tr>
<td>RedHat, Inc., JBoss</td>
<td>Bean Validation API</td>
<td>This product is licensed under the Apache 2.0 license agreement. See The Apache Software License, Version 2.0.</td>
</tr>
</tbody>
</table>
### Table 2-2  (Cont.) Open Source or Other Separately Licensed Software

<table>
<thead>
<tr>
<th>Provider</th>
<th>Component(s)</th>
<th>Licensing Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sadayuki Furuhashi</td>
<td>MessagePack .0.6.5</td>
<td><a href="http://www.apache.org/licenses/LICENSE-2.0">http://www.apache.org/licenses/LICENSE-2.0</a></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Copyright (C) 2008-2010 FURUHASHI Sadayuki</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Licensed under the Apache License, Version 2.0 (the &quot;License&quot;); you may not use this file except in compliance with the License. You may obtain a copy of the License at <a href="http://www.apache.org/licenses/LICENSE-2.0">http://www.apache.org/licenses/LICENSE-2.0</a></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an &quot;AS IS&quot; BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.</td>
</tr>
<tr>
<td>Sergey Lyubka</td>
<td>Mongoose 3.8</td>
<td>Uses the MIT license:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Copyright (c) 2004-2013 Sergey Lyubka</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Copyright (c) 2013 No Face Press, LLC (Thomas Davis)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Copyright (c) 2013 F-Secure Corporation</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the &quot;Software&quot;), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>THE SOFTWARE IS PROVIDED &quot;AS IS&quot;, WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.</td>
</tr>
<tr>
<td>Shigeru Chiba</td>
<td>javassist 3.22.0-CR2</td>
<td>This product is licensed under the Apache 2.0 license agreement. See The Apache Software License, Version 2.0.</td>
</tr>
</tbody>
</table>
### Table 2-2  (Cont.) Open Source or Other Separately Licensed Software

<table>
<thead>
<tr>
<th>Provider</th>
<th>Component(s)</th>
<th>Licensing Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>SourceForge</td>
<td>ipmiutil 2.23</td>
<td></td>
</tr>
</tbody>
</table>

- pefconfig.c Copyright (c) 2001-2007, Intel Corporation
- ipmicmd.c Copyright (c) 2002-2006, Intel Corporation
- ipmicmd.h Copyright (c) 2002, Intel Corporation
- ipmims.c Copyright (c) 2002, Intel Corporation

All rights reserved.

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

The BSD License

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

a. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

b. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

c. Neither the name of Intel Corporation nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

*-----------------------------------------------*/
<table>
<thead>
<tr>
<th>Provider</th>
<th>Component(s)</th>
<th>Licensing Information</th>
</tr>
</thead>
</table>
| Stilbuero   | Cookie 1.0   | Oracle has elected to receive the code under MIT terms.  
Copyright (c) 2006 Klaus Hartl (stilbuero.de)  
Url: http://plugins.jquery.com/project/cookie  
Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the “Software”), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:  
The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.  
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE. |
| Terence Parr| StringTemplate 3.1 | Copyright (c) 2008, Terence Parr  
All rights reserved.  
Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:  
• Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.  
• Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.  
• Neither the name of the author nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.  
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. |
<table>
<thead>
<tr>
<th>Provider</th>
<th>Component(s)</th>
<th>Licensing Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Terracotta</td>
<td>Quartz Job Scheduler 2.2.2</td>
<td>This product is licensed under the Apache 2.0 license agreement. See The Apache Software License, Version 2.0.</td>
</tr>
</tbody>
</table>
| Terracotta | Quartz Job Scheduler 2.3.0 | Quartz Job Scheduler version 2.2.3  
Copyright © 2003-2016 Software AG, Darmstadt, Germany and/or Software AG USA Inc., Reston, VA, USA, and/or its subsidiaries and/or its affiliates and/or their licensors.  
Copyright 2001-2012 Terracotta, Inc.  
This product is licensed under the Apache 2.0 license agreement. See The Apache Software License, Version 2.0.  
*******************************************************  
slf4j-api version 1.7.7 and slf4j-log4j12 version 1.7.7  
Copyright (c) 2004-2013 QOS.ch All rights reserved.  
Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:  
The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.  
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.  
*******************************************************  
Apache log4j version 1.2.16  
Copyright 2007 The Apache Software Foundation  
This product is licensed under the Apache 2.0 license agreement. See The Apache Software License, Version 2.0.
<table>
<thead>
<tr>
<th>Provider</th>
<th>Component(s)</th>
<th>Licensing Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Legion Of The Bouncy Castle</td>
<td>Bouncy Castle</td>
<td>Copyright (c) 2000 - 2015 The Legion Of The Bouncy Castle (<a href="http://www.bouncycastle.org">http://www.bouncycastle.org</a>) Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the &quot;Software&quot;), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions: The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software. THE SOFTWARE IS PROVIDED &quot;AS IS&quot;, WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.</td>
</tr>
<tr>
<td>Tinkerpop</td>
<td>Blueprints 2.3</td>
<td>Copyright (c) 2009-2012, TinkerPop [<a href="http://tinkerpop.com">http://tinkerpop.com</a>] All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:  • Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.  • Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.  • Neither the name of the TinkerPop nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission. THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS &quot;AS IS&quot; AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL TINKERPOP BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.</td>
</tr>
<tr>
<td>Provider</td>
<td>Component(s)</td>
<td>Licensing Information</td>
</tr>
<tr>
<td>--------------</td>
<td>--------------</td>
<td>-----------------------</td>
</tr>
</tbody>
</table>
| Tinkerpop    | Pipes 2.3.0  | Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:  
  • Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.  
  • Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.  
  • Neither the name of the TinkerPop nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.  
  
  THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL TINKERPOP BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. |
<table>
<thead>
<tr>
<th>Provider</th>
<th>Component(s)</th>
<th>Licensing Information</th>
</tr>
</thead>
</table>
| University of Cambridge, Google Inc. | PCRE (Perl Compatible Regular Expressions) Library 5.0 | PCRE LICENCE  
------------------------  
PCRE is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language. Release 5 of PCRE is distributed under the terms of the "BSD" licence, as specified below. The documentation for PCRE, supplied in the "doc" directory, is distributed under the same terms as the software itself.  
Written by: Philip Hazel <ph10@cam.ac.uk>  
Copyright (c) 1997-2004 University of Cambridge  
All rights reserved.  
Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:  
• Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.  
• Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.  
• Neither the name of the University of Cambridge nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.  
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
Table 2-2    (Cont.) Open Source or Other Separately Licensed Software

<table>
<thead>
<tr>
<th>Provider</th>
<th>Component(s)</th>
<th>Licensing Information</th>
</tr>
</thead>
</table>
| Vakata   | jsTree 0.9.9a2 | Dual licensed under the MIT and GPL licenses:  
http://www.opensource.org/licenses/mit-license.php  
http://www.gnu.org/licenses/gpl.html  
Oracle has elected to receive the code under MIT terms.  
http://jstree.com/  
Copyright (c) 2009 Ivan Bozhanov (vakata.com)  
Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the “Software”), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:  
The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.  
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE. |
### Table 2-2  (Cont.) Open Source or Other Separately Licensed Software

<table>
<thead>
<tr>
<th>Provider</th>
<th>Component(s)</th>
<th>Licensing Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Various Open Source Licensors</td>
<td>LAPACK 3.7.0</td>
<td>Copyright (c) 1992-2007 The University of Tennessee. All rights reserved.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Copyright (c) 1992-2016 The University of Tennessee and The University of Tennessee Research Foundation. All rights reserved.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Copyright (c) 2000-2016 The University of California Berkeley. All rights reserved.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Copyright (c) 2006-2016 The University of Colorado Denver. All rights reserved.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>COPYRIGHT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Additional copyrights may follow</td>
</tr>
<tr>
<td></td>
<td></td>
<td>HEADER</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer listed in this license</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Neither the name of the copyright holders nor the names of its contributors may be used to endorse or promote products derived from this software</td>
</tr>
<tr>
<td></td>
<td></td>
<td>without specific prior written permission.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS &quot;AS IS&quot; AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE</td>
</tr>
<tr>
<td></td>
<td></td>
<td>IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE</td>
</tr>
<tr>
<td></td>
<td></td>
<td>GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OF SUCH DAMAGE.</td>
</tr>
</tbody>
</table>
Table 2-2  (Cont.) Open Source or Other Separately Licensed Software

<table>
<thead>
<tr>
<th>Provider</th>
<th>Component(s)</th>
<th>Licensing Information</th>
</tr>
</thead>
</table>
| jQuery   | Autocomplete plugin 1.1   | jQuery Autocomplete plugin 1.1 (Modified to work with Oracle Application Express)\  
Copyright (c) 2009 Jörn Zaefferer\  
Dual licensed under the MIT and GPL licenses:\  
http://www.opensource.org/licenses/mit-license.php  
http://www.gnu.org/licenses/gpl.html  
Revision: $Id: jquery.autocomplete.js 15 2009-08-22 10:30:27Z joern.zaefferer$\  
Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:\  
The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.\  
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE. |
| jQuery   | Bgiframe plugin 2.1.1     | Copyright (c) 2006 Brandon Aaron\  
Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:\  
The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.\  
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE. |
Table 2-2  (Cont.) Open Source or Other Separately Licensed Software

<table>
<thead>
<tr>
<th>Provider</th>
<th>Component(s)</th>
<th>Licensing Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>jQuery</td>
<td>Color Picker</td>
<td>Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the &quot;Software&quot;), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions: The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software. THE SOFTWARE IS PROVIDED &quot;AS IS&quot;, WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.</td>
</tr>
<tr>
<td>jQuery</td>
<td>Validation plugin 1.7</td>
<td>jQuery validation plug-in 1.7</td>
</tr>
<tr>
<td></td>
<td></td>
<td><a href="http://bassistance.de/jquery-plugins/jquery-plugin-validation/">http://bassistance.de/jquery-plugins/jquery-plugin-validation/</a></td>
</tr>
<tr>
<td></td>
<td></td>
<td><a href="http://docs.jquery.com/Plugins/Validation">http://docs.jquery.com/Plugins/Validation</a></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Copyright (c) 2006 - 2008 Jörn Zaefferer</td>
</tr>
<tr>
<td></td>
<td></td>
<td>$Id: jquery.validate.js 6403 2009-06-17 14:27:16Z joern.zaefferer $</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Dual licensed under the MIT and GPL licenses:</td>
</tr>
<tr>
<td></td>
<td></td>
<td><a href="http://www.opensource.org/licenses/mit-license.php">http://www.opensource.org/licenses/mit-license.php</a></td>
</tr>
<tr>
<td></td>
<td></td>
<td><a href="http://www.gnu.org/licenses/gpl.html/">http://www.gnu.org/licenses/gpl.html/</a></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the &quot;Software&quot;), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions: The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software. THE SOFTWARE IS PROVIDED &quot;AS IS&quot;, WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.</td>
</tr>
</tbody>
</table>
Table 2-2  (Cont.) Open Source or Other Separately Licensed Software

<table>
<thead>
<tr>
<th>Provider</th>
<th>Component(s)</th>
<th>Licensing Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>jQuery</td>
<td>jQuery Mobile 1.4.5</td>
<td>Copyright 2013 jQuery Foundation and other contributors <a href="http://jquery.com/">http://jquery.com/</a> Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the &quot;Software&quot;), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions: The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software. THE SOFTWARE IS PROVIDED &quot;AS IS&quot;, WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.</td>
</tr>
<tr>
<td>jQuery Foundation</td>
<td>jQuery UI 1.10.4</td>
<td>Copyright (c) 2012 Paul Bakaus, <a href="http://jqueryui.com/">http://jqueryui.com/</a> This software consists of voluntary contributions made by many individuals (AUTHORS.txt, <a href="http://jqueryui.com/about">http://jqueryui.com/about</a>) For exact contribution history, see the revision history and logs, available at <a href="http://jquery-ui.googlecode.com/svn/">http://jquery-ui.googlecode.com/svn/</a>. Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the &quot;Software&quot;), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions: The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software. THE SOFTWARE IS PROVIDED &quot;AS IS&quot;, WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.</td>
</tr>
</tbody>
</table>
Table 2-2  (Cont.) Open Source or Other Separately Licensed Software

<table>
<thead>
<tr>
<th>Provider</th>
<th>Component(s)</th>
<th>Licensing Information</th>
</tr>
</thead>
</table>
| justGage | justGage 1.0.x | Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the “Software”), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED “AS IS”, WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE. |

2.3 Written Offer for Source Code

For third party technology that you receive from Oracle in binary form which is licensed under an open source license that gives you the right to receive the source code for that binary, you can obtain a copy of the applicable source code from this page. If the source code for the technology was not provided to you with the binary, you can also receive a copy of the source code on physical media by submitting a written request to:

Oracle America, Inc.
Attn: Associate General Counsel
Development and Engineering Legal
500 Oracle Parkway, 10th Floor
Redwood Shores, CA 94065

Or, you may send an email to Oracle using this form. Your request should include:

The name of the component or binary file(s) for which you are requesting the source code
The name and version number of the Oracle product
The date you received the Oracle product
Your name
Your company name (if applicable)
Your return mailing address and email
A telephone number in the event we need to reach you.

We may charge you a fee to cover the cost of physical media and processing. Your request must be sent (i) within three (3) years of the date you received the Oracle product that included the component or binary file(s) that are the subject of your request, or (ii) in the case of code licensed under the GPL v3, for as long as Oracle offers spare parts or customer support for that product model.
A

Open Source Software License Text

A.1 Apache Batik SVG Toolkit 1.9 License

From https://xmlgraphics.apache.org/batik/license.html:

Batik License

Batik is licensed according to the Apache License, Version 2.0, the text of which is included below.

The Apache Software License, Version 2.0

From the NOTICE text file included with Apache Batik SVG Toolkit 1.8:

Apache Batik

Copyright 1999-2007 The Apache Software Foundation

This product includes software developed at The Apache Software Foundation (http://www.apache.org/).

This software contains code from the World Wide Web Consortium (W3C) for the Document Object Model API (DOM API) and SVG Document Type Definition (DTD).

This software contains code from the International Organisation for Standardization for the definition of character entities used in the software's documentation.

This product includes images from the Tango Desktop Project (http://tango.freedesktop.org/).

This product includes images from the Pasodoble Icon Theme (http://www.jesusda.com/projects/pasodoble).

-- W3C DOM documentation

xml-commons/java/external/LICENSE.dom-documentation.txt $Id: LICENSE.dom-documentation.txt 1733420 2016-03-03 07:41:59Z gadams $

This license came from: http://www.w3.org/Consortium/Legal/copyright-documents-19990405

W3C® DOCUMENT NOTICE AND LICENSE

Public documents on the W3C site are provided by the copyright holders under the following license. The software or Document Type Definitions (DTDs) associated with W3C specifications are governed by the Software Notice. By using and/or copying this document, or the W3C document from which this statement is linked, you (the licensee) agree that you have read, understood, and will comply with the following terms and conditions:

Permission to use, copy, and distribute the contents of this document, or the W3C document from which this statement is linked, in any medium for any purpose and without fee or royalty is hereby granted, provided that you include the following on ALL copies of the document, or portions thereof, that you use:

A link or URL to the original W3C document.

The pre-existing copyright notice of the original author, or if it doesn't exist, a notice of the form: "Copyright © [date-of-document] World Wide Web Consortium, (Massachusetts Institute of Technology, Institut National de Recherche en Informatique et en Automatique, Keio University). All Rights Reserved. http://www.w3.org/Consortium/Legal/" (Hypertext is preferred, but a textual representation is permitted.)

If it exists, the STATUS of the W3C document.

When space permits, inclusion of the full text of this NOTICE should be provided. We request that authorship attribution be provided in any software, documents, or other items or products that you create pursuant to the implementation of the contents of this document, or any portion thereof.

No right to create modifications or derivatives of W3C documents is granted pursuant to this license. However, if additional requirements (documented in the Copyright FAQ) are satisfied, the right to create modifications or derivatives is sometimes granted by the W3C to individuals complying with those requirements.

THIS DOCUMENT IS PROVIDED "AS IS," AND COPYRIGHT HOLDERS MAKE NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, NON-INFRINGEMENT, OR TITLE; THAT THE CONTENTS OF THE DOCUMENT ARE SUITABLE FOR ANY PURPOSE; NOR THAT THE IMPLEMENTATION OF SUCH CONTENTS WILL NOT INFRINGE ANY THIRD PARTY PATENTS, COPYRIGHTS, TRADEMARKS OR OTHER RIGHTS. COPYRIGHT HOLDERS WILL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF ANY USE OF THE DOCUMENT OR THE PERFORMANCE OR IMPLEMENTATION OF THE CONTENTS THEREOF.

The name and trademarks of copyright holders may NOT be used in advertising or publicity pertaining to this document or its contents without specific, written prior permission. Title to copyright in this document will at all times remain with copyright holders.

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

This formulation of W3C's notice and license became active on April 05 1999 so as to account for the treatment of DTDs, schema's and bindings. See the older formulation for the policy prior to this date. Please see our Copyright FAQ for common questions about using materials from our site, including specific terms and conditions for packages like libwww, Amaya, and Jigsaw. Other questions about this notice can be directed to site-policy@w3.org.

webmaster
(last updated by reagle on 1999/04/99.)

-- W3C Dom software

ml-commons/java/external/LICENSE.dom-software.txt $Id: LICENSE.dom-software.txt 1733420 2016-03-03 07:41:59Z gadams $

This license came from: http://www.w3.org/Consortium/Legal/copyright-software-19980720

W3C® SOFTWARE NOTICE AND LICENSE


http://www.w3.org/Consortium/Legal/

This W3C work (including software, documents, or other related items) is being provided by the copyright holders under the following license. By obtaining, using and/or copying this work, you (the licensee) agree that you have read, understood, and will comply with the following terms and conditions:

Permission to use, copy, modify, and distribute this software and its documentation, with or without modification, for any purpose and without fee or royalty is hereby granted, provided that you include the following on ALL copies of the software and documentation or portions thereof, including modifications, that you make:

The full text of this NOTICE in a location viewable to users of the redistributed or derivative work.

Any pre-existing intellectual property disclaimers, notices, or terms and conditions. If none exist, a short notice of the following form (hypertext is preferred, text is permitted) should be used within the body of any redistributed or derivative code: "Copyright © [date-of-software] World Wide Web Consortium, (Massachusetts Institute of Technology, Institut National de Recherche en Informatique et en Automatique, Keio University). All Rights Reserved http://www.w3.org/Consortium/Legal/"

Notice of any changes or modifications to the W3C files, including the date changes were made. (We recommend you provide URIs to the location from which the code is derived.)

THIS SOFTWARE AND DOCUMENTATION IS PROVIDED "AS IS," AND COPYRIGHT HOLDERS MAKE NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE OR DOCUMENTATION WILL NOT INFRINGE ANY THIRD PARTY PATENTS, COPYRIGHTS, TRADEMARKS OR OTHER RIGHTS. COPYRIGHT HOLDERS WILL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF ANY USE OF THE SOFTWARE OR DOCUMENTATION.

The name and trademarks of copyright holders may NOT be used in advertising or publicity pertaining to the software without specific, written prior permission. Title to copyright in this software and any associated documentation will at all times remain with copyright holders.

____________________________________
This formulation of W3C’s notice and license became active on August 14, 1998, so as to improve compatibility with GPL. This version ensures that W3C software licensing terms are no more restrictive than GPL and consequently W3C software may be distributed in GPL packages. See the older formulation for the policy prior to this date. Please see our Copyright FAQ for common questions about using materials from our site, including specific terms and conditions for packages like libwww, Amaya, and Jigsaw. Other questions about this notice can be directed to site-policy@w3.org.

webmaster
(last updated $Date: 2002-12-09 09:15:21 -0700 (Mon, 09 Dec 2002) $)

-- FOP transcoder

The fop-transcoder-allinone-2.1.jar file is licensed under the Apache License 2.0, which can be found in the distribution root directory in the LICENSE file.

-- Xalan

The xalan-2.7.0.jar file is licensed under the Apache License 2.0, which can be found in the distribution root directory in the LICENSE file.

-- XML Graphics Commons

The xmlgraphics-commons-2.2.jar file is licensed under the Apache License 2.0.

-- Xerces

The xerces_2_5_0.jar file comes from the Apache Xerces project (http://xml.apache.org/dist/xerces-j/), and is licensed under the Apache Software License, Version 1.1, which is reproduced below.

The Apache Software License, Version 1.1.

A.2 Apache Batik SVG Toolkit 1.10 License

From https://xmlgraphics.apache.org/batik/license.html:

Batik License

Batik is licensed according to the Apache License, Version 2.0, the text of which is included below.

The Apache Software License, Version 2.0

From the NOTICE text file included with Apache Batik SVG Toolkit 1.10:

Apache Batik

Copyright 1999-2018 The Apache Software Foundation

This product includes software developed at

The Apache Software Foundation (http://www.apache.org/).

This software contains code from the World Wide Web Consortium (W3C) for the Document Object Model API (DOM API) and SVG Document Type Definition (DTD).

This software contains code from the International Organisation for Standardization for the definition of character entities used in the software’s documentation.
This product includes images from the Tango Desktop Project
(http://tango.freedesktop.org/).

This product includes images from the Pasodoble Icon Theme

-- W3C DOM documentation

xml-commons/java/external/LICENSE.dom-documentation.txt $Id: LICENSE.dom-
documentation.txt 1733420 2016-03-03 07:41:59Z gadams $

This license came from: http://www.w3.org/Consortium/Legal/copyright-
documents-19990405

W3C® DOCUMENT NOTICE AND LICENSE

(Massachusetts Institute of Technology, Institut National de Recherche en
www.w3.org/Consortium/Legal/

Public documents on the W3C site are provided by the copyright holders under the
following license. The software or Document Type Definitions (DTDs) associated with
W3C specifications are governed by the Software Notice. By using and/or copying
this document, or the W3C document from which this statement is linked, you (the
licensee) agree that you have read, understood, and will comply with the following
terms and conditions:

Permission to use, copy, and distribute the contents of this document, or the W3C
document from which this statement is linked, in any medium for any purpose and
without fee or royalty is hereby granted, provided that you include the following on ALL
copies of the document, or portions thereof, that you use:

A link or URL to the original W3C document.

The pre-existing copyright notice of the original author, or if it doesn't exist, a
notice of the form: "Copyright © [date-of-document] World Wide Web Consortium,
(Massachusetts Institute of Technology, Institut National de Recherche en Informatique
et en Automatique, Keio University). All Rights Reserved. http://www.w3.org/
Consortium/Legal/" (Hypertext is preferred, but a textual representation is permitted.)

If it exists, the STATUS of the W3C document.

When space permits, inclusion of the full text of this NOTICE should be provided. We
request that authorship attribution be provided in any software, documents, or other
items or products that you create pursuant to the implementation of the contents of this
document, or any portion thereof.

No right to create modifications or derivatives of W3C documents is granted pursuant
to this license. However, if additional requirements (documented in the Copyright FAQ)
are satisfied, the right to create modifications or derivatives is sometimes granted by
the W3C to individuals complying with those requirements.

THIS DOCUMENT IS PROVIDED "AS IS," AND COPYRIGHT HOLDERS MAKE
NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING,
BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY, FITNESS FOR A
PARTICULAR PURPOSE, NON-INFRINGEMENT, OR TITLE; THAT THE CONTENTS
OF THE DOCUMENT ARE SUITABLE FOR ANY PURPOSE; NOR THAT
THE IMPLEMENTATION OF SUCH CONTENTS WILL NOT INFRINGE ANY THIRD PARTY PATENTS, COPYRIGHTS, TRADEMARKS OR OTHER RIGHTS. COPYRIGHT HOLDERS WILL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF ANY USE OF THE DOCUMENT OR THE PERFORMANCE OR IMPLEMENTATION OF THE CONTENTS THEREOF.

The name and trademarks of copyright holders may NOT be used in advertising or publicity pertaining to this document or its contents without specific, written prior permission. Title to copyright in this document will at all times remain with copyright holders.

This formulation of W3C’s notice and license became active on April 05 1999 so as to account for the treatment of DTDs, schema’s and bindings. See the older formulation for the policy prior to this date. Please see our Copyright FAQ for common questions about using materials from our site, including specific terms and conditions for packages like libwww, Amaya, and Jigsaw. Other questions about this notice can be directed to site-policy@w3.org.

webmaster
(last updated by reagle on 1999/04/99.)

-- W3C Dom software

ml-commons/java/external/LICENSE.dom-software.txt $Id: LICENSE.dom-software.txt 1733420 2016-03-03 07:41:59Z gadams $

This license came from: http://www.w3.org/Consortium/Legal/copyright-software-19980720

W3C® SOFTWARE NOTICE AND LICENSE


http://www.w3.org/Consortium/Legal/

This W3C work (including software, documents, or other related items) is being provided by the copyright holders under the following license. By obtaining, using and/or copying this work, you (the licensee) agree that you have read, understood, and will comply with the following terms and conditions:

Permission to use, copy, modify, and distribute this software and its documentation, with or without modification, for any purpose and without fee or royalty is hereby granted, provided that you include the following on ALL copies of the software and documentation or portions thereof, including modifications, that you make:

The full text of this NOTICE in a location viewable to users of the redistributed or derivative work.

Any pre-existing intellectual property disclaimers, notices, or terms and conditions. If none exist, a short notice of the following form (hypertext is preferred, text is permitted) should be used within the body of any redistributed or derivative code: “Copyright © [date-of-software] World Wide Web Consortium, (Massachusetts Institute of Technology, Institut National de Recherche en Informatique et en Automatique, Keio University). All Rights Reserved. http://www.w3.org/Consortium/Legal/”
Notice of any changes or modifications to the W3C files, including the date changes were made. (We recommend you provide URIs to the location from which the code is derived.)

THIS SOFTWARE AND DOCUMENTATION IS PROVIDED "AS IS," AND COPYRIGHT HOLDERS MAKE NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE OR DOCUMENTATION WILL NOT INFRINGE ANY THIRD PARTY PATENTS, COPYRIGHTS, TRADEMARKS OR OTHER RIGHTS. COPYRIGHT HOLDERS WILL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF ANY USE OF THE SOFTWARE OR DOCUMENTATION.

The name and trademarks of copyright holders may NOT be used in advertising or publicity pertaining to the software without specific, written prior permission. Title to copyright in this software and any associated documentation will at all times remain with copyright holders.

This formulation of W3C's notice and license became active on August 14 1998 so as to improve compatibility with GPL. This version ensures that W3C software licensing terms are no more restrictive than GPL and consequently W3C software may be distributed in GPL packages. See the older formulation for the policy prior to this date. Please see our Copyright FAQ for common questions about using materials from our site, including specific terms and conditions for packages like libwww, Amaya, and Jigsaw. Other questions about this notice can be directed to site-policy@w3.org.

(last updated $Date: 2002-12-09 09:15:21 -0700 (Mon, 09 Dec 2002) $)

-- FOP transcoder

The fop-transcoder-allinone-2.1.jar file is licensed under the Apache License 2.0, which can be found in the distribution root directory in the LICENSE file.

-- JS Rhino

This distribution includes a binary distribution of Mozilla Rhino 1.6 release 5 plus one patch.

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


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

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

The patch is available here:

https://bugzilla.mozilla.org/attachment.cgi?id=288467
which is attached to this bug:

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

Rhino is licensed under both the MPL (Mozilla Public License) 1.1 and the GPL (GNU General Public License) 2.0, which are duplicated below.

The Rhino jar also includes four classes:

org.mozilla.javascript.tools.debugger.downloaded.AbstractCellEditor.java
org.mozilla.javascript.tools.debugger.downloaded.JTreeTable.java
org.mozilla.javascript.tools.debugger.downloaded.TreeTableModel.java
org.mozilla.javascript.tools.debugger.downloaded.TreeTableModelAdapter.java

Which come from:

http://java.sun.com/products/jfc/tsc/articles/treetable2

Under the following license:

Code sample

License

Copyright 1994-2006 Sun Microsystems, Inc. All Rights Reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistribution of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistribution in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the name of Sun Microsystems, Inc. or the names of contributors may be used to endorse or promote products derived from this software without specific prior written permission.

This software is provided "AS IS," without a warranty of any kind. ALL EXPRESS OR IMPLIED CONDITIONS, REPRESENTATIONS AND WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT, ARE HEREBY EXCLUDED. SUN MICROSYSTEMS, INC. ("SUN") AND ITS LICENSORS SHALL NOT BE LIABLE FOR ANY DAMAGES SUFFERED BY LICENSEE AS A RESULT OF USING, MODIFYING OR DISTRIBUTING THIS SOFTWARE OR ITS DERIVATIVES. IN NO EVENT WILL SUN OR ITS LICENSORS BE LIABLE FOR ANY LOST REVENUE, PROFIT OR DATA, OR FOR DIRECT, INDIRECT, SPECIAL, CONSEQUENTIAL, INCIDENTAL OR PUNITIVE DAMAGES, HOWEVER CAUSED AND REGARDLESS OF THE THEORY OF LIABILITY, ARISING OUT OF THE USE OF OR INABILITY TO USE THIS SOFTWARE, EVEN IF SUN HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

You acknowledge that this software is not designed, licensed or intended for use in the design, construction, operation or maintenance of any nuclear facility.
MOZILLA PUBLIC LICENSE

Version 1.1

1. Definitions.

1.0.1. "Commercial Use" means distribution or otherwise making the Covered Code available to a third party.

1.1. "Contributor" means each entity that creates or contributes to the creation of Modifications.

1.2. "Contributor Version" means the combination of the Original Code, prior Modifications used by a Contributor, and the Modifications made by that particular Contributor.

1.3. "Covered Code" means the Original Code or Modifications or the combination of the Original Code and Modifications, in each case including portions thereof.

1.4. "Electronic Distribution Mechanism" means a mechanism generally accepted in the software development community for the electronic transfer of data.

1.5. "Executable" means Covered Code in any form other than Source Code.

1.6. "Initial Developer" means the individual or entity identified as the Initial Developer in the Source Code notice required by Exhibit A.

1.7. "Larger Work" means a work which combines Covered Code or portions thereof with code not governed by the terms of this License.

1.8. "License" means this document.

1.8.1. "Licensable" means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently acquired, any and all of the rights conveyed herein.

1.9. "Modifications" means any addition to or deletion from the substance or structure of either the Original Code or any previous Modifications. When Covered Code is released as a series of files, a Modification is:

A. Any addition to or deletion from the contents of a file containing Original Code or previous Modifications.

B. Any new file that contains any part of the Original Code or previous Modifications.

1.10. "Original Code" means Source Code of computer software code which is described in the Source Code notice required by Exhibit A as Original Code, and which, at the time of its release under this License is not already Covered Code governed by this License.

1.10.1. "Patent Claims" means any patent claim(s), now owned or hereafter acquired, including without limitation, method, process, and apparatus claims, in any patent Licensable by grantor.

1.11. "Source Code" means the preferred form of the Covered Code for making modifications to it, including all modules it contains, plus any associated interface definition files, scripts used to control compilation and installation of an Executable, or source code differential comparisons against either the Original Code or another well known, available Covered Code of the Contributor’s choice. The Source Code...
can be in a compressed or archival form, provided the appropriate decompression or de-archiving software is widely available for no charge.

1.12. “You” (or “Your”) means an individual or a legal entity exercising rights under, and complying with all of the terms of, this License or a future version of this License issued under Section 6.1. For legal entities, "You" includes any entity which controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. Source Code License.

2.1. The Initial Developer Grant.

The Initial Developer hereby grants You a world-wide, royalty-free, non-exclusive license, subject to third party intellectual property claims:

(a) under intellectual property rights (other than patent or trademark) Licensable by Initial Developer to use, reproduce, modify, display, perform, sublicense and distribute the Original Code (or portions thereof) with or without Modifications, and/or as part of a Larger Work; and

(b) under Patents Claims infringed by the making, using or selling of Original Code, to make, have made, use, practice, sell, and offer for sale, and/or otherwise dispose of the Original Code (or portions thereof).

(c) the licenses granted in this Section 2.1(a) and (b) are effective on the date Initial Developer first distributes Original Code under the terms of this License.

(d) Notwithstanding Section 2.1(b) above, no patent license is granted: 1) for code that You delete from the Original Code; 2) separate from the Original Code; or 3) for infringements caused by: i) the modification of the Original Code or ii) the combination of the Original Code with other software or devices.

2.2. Contributor Grant.

Subject to third party intellectual property claims, each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license

(a) under intellectual property rights (other than patent or trademark) Licensable by Contributor, to use, reproduce, modify, display, perform, sublicense and distribute the Modifications created by such Contributor (or portions thereof) either on an unmodified basis, with other Modifications, as Covered Code and/or as part of a Larger Work; and

(b) under Patents Claims infringed by the making, using, or selling of Modifications made by that Contributor either alone and/or in combination with its Contributor Version (or portions thereof), to make, use, sell, offer for sale, have made, and/or otherwise dispose of: 1) Modifications made by that Contributor (or portions thereof); and 2) the combination of Modifications made by that Contributor with its Contributor Version (or portions of such combination).

(c) the licenses granted in Sections 2.2(a) and 2.2(b) are effective on the date Contributor first makes Commercial Use of the Covered Code.

(d) Notwithstanding Section 2.2(b) above, no patent license is granted: 1) for any code that Contributor has deleted from the Contributor Version; 2) separate from the Contributor Version; 3) for infringements caused by: i) third party modifications of Contributor Version or ii) the combination of Modifications made by that Contributor with other software (except as part of the Contributor Version) or other devices; or 4)
under Patent Claims infringed by Covered Code in the absence of Modifications made by that Contributor.

3. Distribution Obligations.

3.1. Application of License.

The Modifications which You create or to which You contribute are governed by the terms of this License, including without limitation Section 2.2. The Source Code version of Covered Code may be distributed only under the terms of this License or a future version of this License released under Section 6.1, and You must include a copy of this License with every copy of the Source Code You distribute. You may not offer or impose any terms on any Source Code version that alters or restricts the applicable version of this License or the recipients’ rights hereunder. However, You may include an additional document offering the additional rights described in Section 3.5.

3.2. Availability of Source Code.

Any Modification which You create or to which You contribute must be made available in Source Code form under the terms of this License either on the same media as an Executable version or via an accepted Electronic Distribution Mechanism to anyone to whom you made an Executable version available; and if made available via Electronic Distribution Mechanism, must remain available for at least twelve (12) months after the date it initially became available, or at least six (6) months after a subsequent version of that particular Modification has been made available to such recipients. You are responsible for ensuring that the Source Code version remains available even if the Electronic Distribution Mechanism is maintained by a third party.

3.3. Description of Modifications.

You must cause all Covered Code to which You contribute to contain a file documenting the changes You made to create that Covered Code and the date of any change. You must include a prominent statement that the Modification is derived, directly or indirectly, from Original Code provided by the Initial Developer and including the name of the Initial Developer in (a) the Source Code, and (b) in any notice in an Executable version or related documentation in which You describe the origin or ownership of the Covered Code.

3.4. Intellectual Property Matters

(a) Third Party Claims.

If Contributor has knowledge that a license under a third party's intellectual property rights is required to exercise the rights granted by such Contributor under Sections 2.1 or 2.2, Contributor must include a text file with the Source Code distribution titled "LEGAL" which describes the claim and the party making the claim in sufficient detail that a recipient will know whom to contact. If Contributor obtains such knowledge after the Modification is made available as described in Section 3.2, Contributor shall promptly modify the LEGAL file in all copies Contributor makes available thereafter and shall take other steps (such as notifying appropriate mailing lists or newsgroups) reasonably calculated to inform those who received the Covered Code that new knowledge has been obtained.

(b) Contributor APIs.

If Contributor's Modifications include an application programming interface and Contributor has knowledge of patent licenses which are reasonably necessary to implement that API, Contributor must also include this information in the LEGAL file.
(c) Representations.

Contributor represents that, except as disclosed pursuant to Section 3.4(a) above, Contributor believes that Contributor's Modifications are Contributor's original creation(s) and/or Contributor has sufficient rights to grant the rights conveyed by this License.

3.5. Required Notices.

You must duplicate the notice in Exhibit A in each file of the Source Code. If it is not possible to put such notice in a particular Source Code file due to its structure, then You must include such notice in a location (such as a relevant directory) where a user would be likely to look for such a notice. If You created one or more Modification(s) You may add your name as a Contributor to the notice described in Exhibit A. You must also duplicate this License in any documentation for the Source Code where You describe recipients’ rights or ownership rights relating to Covered Code. You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Code. However, You may do so only on Your own behalf, and not on behalf of the Initial Developer or any Contributor. You must make it absolutely clear than any such warranty, support, indemnity or liability obligation is offered by You alone, and You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of warranty, support, indemnity or liability terms You offer.

3.6. Distribution of Executable Versions.

You may distribute Covered Code in Executable form only if the requirements of Section 3.1-3.5 have been met for that Covered Code, and if You include a notice stating that the Source Code version of the Covered Code is available under the terms of this License, including a description of how and where You have fulfilled the obligations of Section 3.2. The notice must be conspicuously included in any notice in an Executable version, related documentation or collateral in which You describe recipients’ rights relating to the Covered Code. You may distribute the Executable version of Covered Code or ownership rights under a license of Your choice, which may contain terms different from this License, provided that You are in compliance with the terms of this License and that the license for the Executable version does not attempt to limit or alter the recipient’s rights in the Source Code version from the rights set forth in this License. If You distribute the Executable version under a different license You must make it absolutely clear that any terms which differ from this License are offered by You alone, not by the Initial Developer or any Contributor. You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of any such terms You offer.

3.7. Larger Works.

You may create a Larger Work by combining Covered Code with other code not governed by the terms of this License and distribute the Larger Work as a single product. In such a case, You must make sure the requirements of this License are fulfilled for the Covered Code.

4. Inability to Comply Due to Statute or Regulation.

If it is impossible for You to comply with any of the terms of this License with respect to some or all of the Covered Code due to statute, judicial order, or regulation then You must: (a) comply with the terms of this License to the maximum extent possible; and (b) describe the limitations and the code they affect. Such description must be included in the LEGAL file described in Section 3.4 and must be included with all distributions of the Source Code. Except to the extent prohibited by statute or regulation, such
description must be sufficiently detailed for a recipient of ordinary skill to be able to understand it.

5. Application of this License.

This License applies to code to which the Initial Developer has attached the notice in Exhibit A and to related Covered Code.

6. Versions of the License.

6.1. New Versions.

Netscape Communications Corporation ("Netscape") may publish revised and/or new versions of the License from time to time. Each version will be given a distinguishing version number.

6.2. Effect of New Versions.

Once Covered Code has been published under a particular version of the License, You may always continue to use it under the terms of that version. You may also choose to use such Covered Code under the terms of any subsequent version of the License published by Netscape. No one other than Netscape has the right to modify the terms applicable to Covered Code created under this License.

6.3. Derivative Works.

If You create or use a modified version of this License (which you may only do in order to apply it to code which is not already Covered Code governed by this License), You must (a) rename Your license so that the phrases "Mozilla", "MOZILLAPL", "MOZPL", "Netscape", "MPL", "NPL" or any confusingly similar phrase do not appear in your license (except to note that your license differs from this License) and (b) otherwise make it clear that Your version of the license contains terms which differ from the Mozilla Public License and Netscape Public License. (Filling in the name of the Initial Developer, Original Code or Contributor in the notice described in Exhibit A shall not of themselves be deemed to be modifications of this License.)

7. DISCLAIMER OF WARRANTY.

COVERED CODE IS PROVIDED UNDER THIS LICENSE ON AN "AS IS" BASIS, WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED CODE IS FREE OF DEFECTS, MERCHANTABLE, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED CODE IS WITH YOU. SHOULD ANY COVERED CODE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED CODE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

8. TERMINATION.

8.1. This License and the rights granted hereunder will terminate automatically if You fail to comply with terms herein and fail to cure such breach within 30 days of becoming aware of the breach. All sublicenses to the Covered Code which are properly granted shall survive any termination of this License. Provisions which, by their nature, must remain in effect beyond the termination of this License shall survive.

8.2. If You initiate litigation by asserting a patent infringement claim (excluding declaratory judgment actions) against Initial Developer or a Contributor (the Initial
Developer or Contributor against whom You file such action is referred to as "Participant") alleging that:

(a) such Participant’s Contributor Version directly or indirectly infringes any patent, then any and all rights granted by such Participant to You under Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice from Participant terminate prospectively, unless if within 60 days after receipt of notice You either: (i) agree in writing to pay Participant a mutually agreeable reasonable royalty for Your past and future use of Modifications made by such Participant, or (ii) withdraw Your litigation claim with respect to the Contributor Version against such Participant. If within 60 days of notice, a reasonable royalty and payment arrangement are not mutually agreed upon in writing by the parties or the litigation claim is not withdrawn, the rights granted by Participant to You under Sections 2.1 and/or 2.2 automatically terminate at the expiration of the 60 day notice period specified above.

(b) any software, hardware, or device, other than such Participant’s Contributor Version, directly or indirectly infringes any patent, then any rights granted to You by such Participant under Sections 2.1(b) and 2.2(b) are revoked effective as of the date You first made, used, sold, distributed, or had made, Modifications made by that Participant.

8.3. If You assert a patent infringement claim against Participant alleging that such Participant’s Contributor Version directly or indirectly infringes any patent where such claim is resolved (such as by license or settlement) prior to the initiation of patent infringement litigation, then the reasonable value of the licenses granted by such Participant under Sections 2.1 or 2.2 shall be taken into account in determining the amount or value of any payment or license.

8.4. In the event of termination under Sections 8.1 or 8.2 above, all end user license agreements (excluding distributors and resellers) which have been validly granted by You or any distributor hereunder prior to termination shall survive termination.

9. LIMITATION OF LIABILITY.

UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED CODE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTY’S NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

10. U.S. GOVERNMENT END USERS.

The Covered Code is a "commercial item," as that term is defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of "commercial computer software" and "commercial computer software documentation," as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June
1995), all U.S. Government End Users acquire Covered Code with only those rights set forth herein.

11. MISCELLANEOUS.

This License represents the complete agreement concerning subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. This License shall be governed by California law provisions (except to the extent applicable law, if any, provides otherwise), excluding its conflict-of-law provisions. With respect to disputes in which at least one party is a citizen of, or an entity chartered or registered to do business in the United States of America, any litigation relating to this License shall be subject to the jurisdiction of the Federal Courts of the Northern District of California, with venue lying in Santa Clara County, California, with the losing party responsible for costs, including without limitation, court costs and reasonable attorneys’ fees and expenses. The application of the United Nations Convention on Contracts for the International Sale of Goods is expressly excluded. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not apply to this License.

12. RESPONSIBILITY FOR CLAIMS.

As between Initial Developer and the Contributors, each party is responsible for claims and damages arising, directly or indirectly, out of its utilization of rights under this License and You agree to work with Initial Developer and Contributors to distribute such responsibility on an equitable basis. Nothing herein is intended or shall be deemed to constitute any admission of liability.

13. MULTIPLE-LICENSED CODE.

Initial Developer may designate portions of the Covered Code as "Multiple-Licensed". "Multiple-Licensed" means that the Initial Developer permits you to utilize portions of the Covered Code under Your choice of the NPL or the alternative licenses, if any, specified by the Initial Developer in the file described in Exhibit A.

EXHIBIT A -Mozilla Public License.

```
The contents of this file are subject to the Mozilla Public License
Version 1.1 (the "License"); you may not use this file except in
compliance with the License. You may obtain a copy of the License
at
http://www.mozilla.org/MPL/

Software distributed under the License is distributed on an "AS IS"
basis, WITHOUT WARRANTY OF ANY KIND, either express or implied.
See the License for the specific language governing rights and limitations
under the License.

The Original Code is ______________________________________.

The Initial Developer of the Original Code is ________________________.

Portions created by __________________ are Copyright (C) ______
______________________. All Rights Reserved.
```
Alternatively, the contents of this file may be used under the terms of the ___ license (the "[___] License"), in which case the provisions of [_____] License are applicable instead of those above. If you wish to allow use of your version of this file only under the terms of the [___] License and not to allow others to use your version of this file under the MPL, indicate your decision by deleting the provisions above and replace them with the notice and other provisions required by the [___] License. If you do not delete the provisions above, a recipient may use your version of this file under either the MPL or the [___] License."

[NOTE: The text of this Exhibit A may differ slightly from the text of the notices in the Source Code files of the Original Code. You should use the text of this Exhibit A rather than the text found in the Original Code Source Code for Your Modifications.]

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

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

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

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they,
too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

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

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

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

GNU GENERAL PUBLIC LICENSE

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

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

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

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

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

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

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

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

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

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.
4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

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

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

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

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.
Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

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

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

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>
This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

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

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

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

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

Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type 'show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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

Yoyodyne, Inc., hereby disclaims all copyright interest in the program 'Gnomovision' (which makes passes at compilers) written by James Hacker.

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

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

=================================================================
-- SAX Parser
xml-commons/java/external/LICENSE.sax.txt $Id: LICENSE.sax.txt 1733420 2016-03-03 07:41:59Z gadams $
This license came from: http://www.megginson.com/SAX/copying.html
However please note future versions of SAX may be covered under http://saxproject.org/?selected=pd
This page is now out of date -- see the new SAX site at http://www.saxproject.org/ for more up-to-date releases and other information. Please change your bookmarks.

SAX2 is Free!

I hereby abandon any property rights to SAX 2.0 (the Simple API for XML), and release all of the SAX 2.0 source code, compiled code, and documentation contained in this distribution into the Public Domain. SAX comes with NO WARRANTY or guarantee of fitness for any purpose.

David Megginson, david@megginson.com

2000-05-05

-- Xalan

The xalan-2.7.0.jar file is licensed under the Apache License 2.0, which can be found in the distribution root directory in the LICENSE file.

-- Xml Graphics Commons

The Apache Software License, Version 2.0.

-- Xerces

The xerces_2_5_0.jar file comes from the Apache Xerces project (http://xml.apache.org/dist/xerces-j/), and is licensed under the Apache Software License, Version 1.1, which is reproduced below.

The Apache Software License, Version 1.1.

A.3 Apache Commons Math 3.6.1 License

Apache Commons Math

Copyright 2001-2012 The Apache Software Foundation

This product includes software developed by The Apache Software Foundation (http://www.apache.org/).

This product is licensed under the Apache 2.0 license agreement. See "The Apache Software License, Version 2.0".

Apache Commons Math includes the following code provided to the ASF under the Apache License 2.0:

- The inverse error function implementation in the Erf class is based on CUDA code developed by Mike Giles, Oxford-Man Institute of Quantitative Finance, and published in GPU Computing Gems, volume 2, 2010 (grant received on March 23th 2013)
- The LinearConstraint, LinearObjectiveFunction, LinearOptimizer, RelationShip, SimplexSolver and SimplexTableau classes in package org.apache.commons.math3.optimization.linear include software developed by Benjamin McCann (http://www.benmccann.com) and distributed with the following copyright: Copyright 2009 Google Inc. (grant received on March 16th 2009)
- The class "org.apache.commons.math3.exception.util.LocalizedFormatsTest" which is an adapted version of "OrekitMessagesTest" test class for the Orekit library
• The “org.apache.commons.math3.analysis.interpolation.HermiteInterpolator” has been imported from the Orekit space flight dynamics library.

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

APACHE COMMONS MATH DERIVATIVE WORKS:

The Apache commons-math library includes a number of subcomponents whose implementation is derived from original sources written in C or Fortran. License terms of the original sources are reproduced below.

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

For the lmder, lmpar and qrsolv Fortran routine from minpack and translated in the LevenbergMarquardtOptimizer class in package org.apache.commons.math3.optimization.general

Original source copyright and license statement:

Minpack Copyright Notice (1999) University of Chicago. All rights reserved

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. The end-user documentation included with the redistribution, if any, must include the following acknowledgment:

   "This product includes software developed by the University of Chicago, as Operator of Argonne National Laboratory."

   Alternately, this acknowledgment may appear in the software itself, if and wherever such third-party acknowledgments normally appear.

4. WARRANTY DISCLAIMER. THE SOFTWARE IS SUPPLIED "AS IS" WITHOUT WARRANTY OF ANY KIND. THE COPYRIGHT HOLDER, THE UNITED STATES, THE UNITED STATES DEPARTMENT OF ENERGY, AND THEIR EMPLOYEES: (1) DISCLAIM ANY WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE OR NON-INFRINGEMENT, (2) DO NOT ASSUME ANY LEGAL LIABILITY OR RESPONSIBILITY FOR THE ACCURACY, COMPLETENESS, OR USEFULNESS OF THE SOFTWARE, (3) DO NOT REPRESENT THAT USE OF THE SOFTWARE WOULD NOT INFRINGE PRIVATELY OWNED RIGHTS, (4) DO NOT WARRANT THAT THE SOFTWARE WILL FUNCTION UNINTERRUPTED, THAT IT IS ERROR-FREE OR THAT ANY ERRORS WILL BE CORRECTED.

5. LIMITATION OF LIABILITY. IN NO EVENT WILL THE COPYRIGHT HOLDER, THE UNITED STATES, THE UNITED STATES DEPARTMENT OF ENERGY, OR THEIR EMPLOYEES: BE LIABLE FOR ANY INDIRECT, INCIDENTAL, CONSEQUENTIAL, SPECIAL OR PUNITIVE DAMAGES OF ANY KIND OR NATURE, INCLUDING BUT NOT LIMITED TO LOSS OF PROFITS OR LOSS OF DATA, FOR ANY REASON WHATSOEVER, WHETHER SUCH LIABILITY IS ASSERTED ON THE BASIS OF CONTRACT, TORT (INCLUDING NEGLIGENCE
OR STRICT LIABILITY), OR OTHERWISE, EVEN IF ANY OF SAID PARTIES HAS BEEN WARNED OF THE POSSIBILITY OF SUCH LOSS OR DAMAGES.

=================================================================
Copyright and license statement for the odex Fortran routine developed by E. Hairer and G. Wanner and translated in GraggBulirschStoerIntegrator class in package org.apache.commons.math3.ode.nonstiff:

Copyright (c) 2004, Ernst Hairer

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

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

Copyright and license statement for the original Mersenne twister C routines translated in MersenneTwister class in package org.apache.commons.math3.random:

Copyright (C) 1997 - 2002, Makoto Matsumoto and Takuji Nishimura, All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. The names of its contributors may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN
ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

The initial code for shuffling an array (originally in class
"org.apache.commons.math3.random.RandomDataGenerator", now replaced by a
method in class "org.apache.commons.math3.util.MathArrays") was inspired from
the algorithm description provided in "Algorithms", by Ian Craw and John Pulham
(University of Aberdeen 1999). The textbook (containing a proof that the shuffle
is uniformly random) is available here: http://citeseerx.ist.psu.edu/viewdoc/download;?
oi=10.1.1.173.1898&rep=rep1&type=pdf

License statement for the direction numbers in the resource files for Sobol sequences.

Licence pertaining to sobol.cc and the accompanying sets of direction numbers

Copyright (c) 2008, Frances Y. Kuo and Stephen Joe

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are
permitted provided that the following conditions are met:

• Redistributions of source code must retain the above copyright notice, this list of
conditions and the following disclaimer.

• Redistributions in binary form must reproduce the above copyright notice, this
list of conditions and the following disclaimer in the documentation and/or other
materials provided with the distribution.

• Neither the names of the copyright holders nor the names of the University of
New South Wales and the University of Waikato and its contributors may be used
to endorse or promote products derived from this software without specific prior
written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS "AS IS" AND
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
COPYRIGHT HOLDERS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN
ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

=================================================================
The initial commit of package "org.apache.commons.math3.ml.neuralnet" is an adapted version of code developed in the context of the Data Processing and Analysis Consortium (DPAC) of the "Gaia" project of the European Space Agency (ESA).

=================================================================
The initial commit of the class "org.apache.commons.math3.special.BesselJ" is an adapted version of code translated from the netlib Fortran program, rjbesl http://www.netlib.org/specfun/rjbesl by R.J. Cody at Argonne National Laboratory (USA). There is no license or copyright statement included with the original Fortran sources.

=================================================================
The BracketFinder (package org.apache.commons.math3.optimization.univariate) and PowellOptimizer (package org.apache.commons.math3.optimization.general) classes are based on the Python code in module "optimize.py" (version 0.5) developed by Travis E. Oliphant for the SciPy library (http://www.scipy.org/)


SciPy license

Copyright © 2001, 2002 Enthought, Inc.

All rights reserved.


All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

• Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

• Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

• Neither the name of Enthought nor the names of the SciPy Developers may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN
ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

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

A.4 Apache Tomcat 8.5.32 License

NOTICE file from the download package from http://mirrors.up.pt/pub/apache/
tomcat/tomcat-8/v8.5.23/src/apache-tomcat-8.5.23-src.tar.gz (replacing information
referenced to Apache Tomcat Version 8.5.20 that was here before):

Apache Tomcat

Copyright 1999-2017 The Apache Software Foundation

This product includes software developed at

The Apache Software Foundation (http://www.apache.org/).

This software contains code derived from netty-native developed by the Netty
project (http://netty.io, https://github.com/netty/netty-tcnative/) and from finagle-native
developed at Twitter (https://github.com/twitter/finagle).

The Windows Installer is built with the Nullsoft Scriptable Install System (NSIS), which
is open source software. The original software and related information is available at

Java compilation software for JSP pages is provided by the Eclipse JDT Core Batch
Compiler component, which is open source software. The original software and related
information is available at http://www.eclipse.org/jdt/core/.

For portions of the Tomcat JNI OpenSSL API and the OpenSSL JSSE integration The
org.apache.tomcat.jni and the org.apache.tomcat.net.openssl packages are derivative
work originating from the Netty project and the finagle-native project developed at Twitter

• Copyright 2014 The Netty Project
• Copyright 2014 Twitter

The original XML Schemas for Java EE Deployment Descriptors:

• javaee_5.xsd
• javaee_web_services_1_2.xsd
• javaee_web_services_client_1_2.xsd
• javaee_6.xsd
• javaee_web_services_1_3.xsd
• javaee_web_services_client_1_3.xsd
• jsp_2_2.xsd
• web-app_3_0.xsd
• web-common_3_0.xsd
• web-fragment_3_0.xsd
• javaee_7.xsd
may be obtained from:


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

LICENSE file from the same package:

This product is licensed under the Apache 2.0 license agreement. See "The Apache Software License, Version 2.0".

APACHE TOMCAT SUBCOMPONENTS

Apache Tomcat includes a number of subcomponents with separate copyright notices and license terms. Your use of these subcomponents is subject to the terms and conditions of the following licenses.

For the Eclipse JDT Core Batch Compiler (ecj-x.x.x.jar) component:

Eclipse Public License - v 1.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES RECIPENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

a. in the case of the initial Contributor, the initial code and documentation distributed under this Agreement, and

b. in the case of each subsequent Contributor:

i. changes to the Program, and

ii. additions to the Program;

where such changes and/or additions to the Program originate from and are distributed by that particular Contributor. A Contribution 'originates' from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include additions to the Program which: (i) are separate modules of software distributed in conjunction with the Program under their own license agreement, and (ii) are not derivative works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

"Program" means the Contributions distributed in accordance with this Agreement.
"Recipient" means anyone who receives the Program under this Agreement, including all Contributors.

2. GRANT OF RIGHTS
   a. Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare derivative works of, publicly display, publicly perform, distribute and sublicense the Contribution of such Contributor, if any, and such derivative works, in source code and object code form.
   b. Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in source code and object code form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.
   c. Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to distribute the Program, it is Recipient’s responsibility to acquire that license before distributing the Program.
   d. Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

3. REQUIREMENTS
   A Contributor may choose to distribute the Program in object code form under its own license agreement, provided that:
   a. it complies with the terms and conditions of this Agreement; and
   b. its license agreement:
      i. effectively disclaims on behalf of all Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;
      ii. effectively excludes on behalf of all Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;
      iii. states that any provisions which differ from this Agreement are offered by that Contributor alone and not by any other party; and
      iv. states that source code for the Program is available from such Contributor, and informs licensees how to obtain it in a reasonable manner on or through a medium customarily used for software exchange.
When the Program is made available in source code form:

a. it must be made available under this Agreement; and

b. a copy of this Agreement must be included with each copy of the Program.

Contributors may not remove or alter any copyright notices contained within the Program.

Each Contributor must identify itself as the originator of its Contribution, if any, in a manner that reasonably allows subsequent Recipients to identify the originator of the Contribution.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor (“Commercial Contributor”) hereby agrees to defend and indemnify every other Contributor (“Indemnified Contributor”) against any losses, damages and costs (collectively “Losses”) arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering.

The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor’s responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY
EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECEPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to distribute the Program (including its Contributions) under the new version. Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved.

This Agreement is governed by the laws of the State of New York and the intellectual property laws of the United States of America. No party to this Agreement will bring a legal action under this Agreement more than one year after the cause of action arose. Each party waives its rights to a jury trial in any resulting litigation.

For the Windows Installer component:
• All NSIS source code, plug-ins, documentation, examples, header files and graphics, with the exception of the compression modules and where otherwise noted, are licensed under the zlib/libpng license.

• The zlib compression module for NSIS is licensed under the zlib/libpng license.

• The bzip2 compression module for NSIS is licensed under the bzip2 license.

• The lzma compression module for NSIS is licensed under the Common Public License version 1.0.

zlib/libpng license

This software is provided ‘as-is’, without any express or implied warranty. In no event will the authors be held liable for any damages arising from the use of this software.

Permission is granted to anyone to use this software for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not claim that you wrote the original software. If you use this software in a product, an acknowledgment in the product documentation would be appreciated but is not required.

2. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.

3. This notice may not be removed or altered from any source distribution.

bzip2 license

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. The origin of this software must not be misrepresented; you must not claim that you wrote the original software. If you use this software in a product, an acknowledgment in the product documentation would be appreciated but is not required.

3. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.

4. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Julian Seward, Cambridge, UK.
jseward@acm.org

Common Public License version 1.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS COMMON PUBLIC LICENSE (“AGREEMENT”). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES RECIPIENT’S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

a. in the case of the initial Contributor, the initial code and documentation distributed under this Agreement, and b) in the case of each subsequent Contributor:
   i. changes to the Program, and
   ii. additions to the Program;

where such changes and/or additions to the Program originate from and are distributed by that particular Contributor. A Contribution 'originates' from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include additions to the Program which: (i) are separate modules of software distributed in conjunction with the Program under their own license agreement, and (ii) are not derivative works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

"Program" means the Contributions distributed in accordance with this Agreement.

"Recipient" means anyone who receives the Program under this Agreement, including all Contributors.

2. GRANT OF RIGHTS

a. Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare derivative works of, publicly display, publicly perform, distribute and sublicense the Contribution of such Contributor, if any, and such derivative works, in source code and object code form.

b. Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in source code and object code form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

c. Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement
of intellectual property rights or otherwise. As a condition to exercising the
rights and licenses granted hereunder, each Recipient hereby assumes sole
responsibility to secure any other intellectual property rights needed, if any.
For example, if a third party patent license is required to allow Recipient to
distribute the Program, it is Recipient's responsibility to acquire that license
before distributing the Program.

d. Each Contributor represents that to its knowledge it has sufficient copyright
rights in its Contribution, if any, to grant the copyright license set forth in this
Agreement.

3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under its
own license agreement, provided that:
a. it complies with the terms and conditions of this Agreement; and
b. its license agreement:
   i. effectively disclaims on behalf of all Contributors all warranties and
      conditions, express and implied, including warranties or conditions of
      title and non-infringement, and implied warranties or conditions of
      merchantability and fitness for a particular purpose;
   ii. effectively excludes on behalf of all Contributors all liability for damages,
      including direct, indirect, special, incidental and consequential damages,
      such as lost profits;
   iii. states that any provisions which differ from this Agreement are offered by
        that Contributor alone and not by any other party; and
   iv. states that source code for the Program is available from such Contributor,
        and informs licensees how to obtain it in a reasonable manner on or
        through a medium customarily used for software exchange.

When the Program is made available in source code form:
a. it must be made available under this Agreement; and
b. a copy of this Agreement must be included with each copy of the Program.

Contributors may not remove or alter any copyright notices contained within the
Program.

Each Contributor must identify itself as the originator of its Contribution, if any, in a
manner that reasonably allows subsequent Recipients to identify the originator of
the Contribution.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with
respect to end users, business partners and the like. While this license is
intended to facilitate the commercial use of the Program, the Contributor who
includes the Program in a commercial product offering should do so in a
manner which does not create potential liability for other Contributors. Therefore,
if a Contributor includes the Program in a commercial product offering, such
Contributor ("Commercial Contributor") hereby agrees to defend and indemnify
every other Contributor ("Indemnified Contributor") against any losses, damages
and costs (collectively "Losses") arising from claims, lawsuits and other legal
actions brought by a third party against the Indemnified Contributor to the
extent caused by the acts or omissions of such Commercial Contributor in
connection with its distribution of the Program in a commercial product offering.
The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor’s responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against a Contributor with respect to a patent applicable to software (including a cross-claim or counterclaim in a lawsuit), then any patent licenses granted by that Contributor to such Recipient under this Agreement shall terminate as of the date such litigation is filed. In addition, if Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations
of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient’s rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. IBM is the initial Agreement Steward. IBM may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to distribute the Program (including its Contributions) under the new version. Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved.

This Agreement is governed by the laws of the State of New York and the intellectual property laws of the United States of America. No party to this Agreement will bring a legal action under this Agreement more than one year after the cause of action arose. Each party waives its rights to a jury trial in any resulting litigation.

Special exception for LZMA compression module

Igor Pavlov and Amir Szekely, the authors of the LZMA compression module for NSIS, expressly permit you to statically or dynamically link your code (or bind by name) to the files from the LZMA compression module for NSIS without subjecting your linked code to the terms of the Common Public license version 1.0. Any modifications or additions to files from the LZMA compression module for NSIS, however, are subject to the terms of the Common Public License version 1.0.

For the following XML Schemas for Java EE Deployment Descriptors:

- javaee_5.xsd
- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.0

1. Definitions.

1.1. Contributor. means each individual or entity that creates or contributes to the creation of Modifications.

1.2. Contributor Version. means the combination of the Original Software, prior Modifications used by a Contributor (if any), and the Modifications made by that particular Contributor.

1.3. Covered Software. means (a) the Original Software, or (b) Modifications, or (c) the combination of files containing Original Software with files containing Modifications, in each case including portions thereof.

1.4. Executable. means the Covered Software in any form other than Source Code.

1.5. Initial Developer. means the individual or entity that first makes Original Software available under this License.

1.6. Larger Work. means a work which combines Covered Software or portions thereof with code not governed by the terms of this License.

1.7. License. means this document.

1.8. Licensable. means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently acquired, any and all of the rights conveyed herein.

1.9. Modifications. means the Source Code and Executable form of any of the following:

A. Any file that results from an addition to, deletion from or modification of the contents of a file containing Original Software or previous Modifications;

B. Any new file that contains any part of the Original Software or previous Modification; or
C. Any new file that is contributed or otherwise made available under the terms of this License.

1.10. Original Software. means the Source Code and Executable form of computer software code that is originally released under this License.

1.11. Patent Claims. means any patent claim(s), now owned or hereafter acquired, including without limitation, method, process, and apparatus claims, in any patent Licensable by grantor.

1.12. Source Code. means (a) the common form of computer software code in which modifications are made and (b) associated documentation included in or with such code.

1.13. You. (or .Your.) means an individual or a legal entity exercising rights under, and complying with all of the terms of, this License. For legal entities, .You. includes any entity which controls, is controlled by, or is under common control with You. For purposes of this definition, .control. means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants.

2.1. The Initial Developer Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, the Initial Developer hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Initial Developer, to use, reproduce, modify, display, perform, sublicense and distribute the Original Software (or portions thereof), with or without Modifications, and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using or selling of Original Software, to make, have made, use, practice, sell, and offer for sale, and/or otherwise dispose of the Original Software (or portions thereof).

(c) The licenses granted in Sections 2.1(a) and (b) are effective on the date Initial Developer first distributes or otherwise makes the Original Software available to a third party under the terms of this License.

(d) Notwithstanding Section 2.1(b) above, no patent license is granted: (1) for code that You delete from the Original Software, or (2) for infringements caused by: (i) the modification of the Original Software, or (ii) the combination of the Original Software with other software or devices.

2.2. Contributor Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Contributor to use, reproduce, modify, display, perform, sublicense and distribute the Modifications created by such Contributor (or portions thereof), either on an unmodified basis, with other Modifications, as Covered Software and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using or selling of Covered Software, to make, have made, use, practice, sell, and offer for sale, and/or otherwise dispose of Covered Software (or portions thereof).

(c) The licenses granted in Sections 2.2(a) and (b) are effective on the date Original Software is first made available under this License.

(d) Notwithstanding Sections 2.2(a) and (b), no patent license is granted: (1) for code that You delete from the Covered Software, or (2) for infringements caused by: (i) the modification of the Covered Software, or (ii) the combination of the Covered Software with other software or devices.
(b) under Patent Claims infringed by the making, using, or selling of Modifications made by that Contributor either alone and/or in combination with its Contributor Version (or portions of such combination), to make, use, sell, offer for sale, have made, and/or otherwise dispose of: (1) Modifications made by that Contributor (or portions thereof); and (2) the combination of Modifications made by that Contributor with its Contributor Version (or portions of such combination).

(c) The licenses granted in Sections 2.2(a) and 2.2(b) are effective on the date Contributor first distributes or otherwise makes the Modifications available to a third party.

(d) Notwithstanding Section 2.2(b) above, no patent license is granted: (1) for any code that Contributor has deleted from the Contributor Version; (2) for infringements caused by: (i) third party modifications of Contributor Version, or (ii) the combination of Modifications made by that Contributor with other software (except as part of the Contributor Version) or other devices; or (3) under Patent Claims infringed by Covered Software in the absence of Modifications made by that Contributor.

3. Distribution Obligations.

3.1. Availability of Source Code.

Any Covered Software that You distribute or otherwise make available in Executable form must also be made available in Source Code form and that Source Code form must be distributed only under the terms of this License. You must include a copy of this License with every copy of the Source Code form of the Covered Software You distribute or otherwise make available. You must inform recipients of any such Covered Software in Executable form as to how they can obtain such Covered Software in Source Code form in a reasonable manner on or through a medium customarily used for software exchange.

3.2. Modifications.

The Modifications that You create or to which You contribute are governed by the terms of this License. You represent that You believe Your Modifications are Your original creation(s) and/or You have sufficient rights to grant the rights conveyed by this License.

3.3. Required Notices.

You must include a notice in each of Your Modifications that identifies You as the Contributor of the Modification. You may not remove or alter any copyright, patent or trademark notices contained within the Covered Software, or any notices of licensing or any descriptive text giving attribution to any Contributor or the Initial Developer.

3.4. Application of Additional Terms.

You may not offer or impose any terms on any Covered Software in Source Code form that alters or restricts the applicable version of this License or the recipients' rights hereunder. You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, you may do so only on Your own behalf, and not on behalf of the Initial Developer or any Contributor. You must make it absolutely clear that any such warranty, support, indemnity or liability obligation is offered by You alone, and You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of warranty, support, indemnity or liability terms You offer.

3.5. Distribution of Executable Versions.
You may distribute the Executable form of the Covered Software under the terms of this License or under the terms of a license of Your choice, which may contain terms different from this License, provided that You are in compliance with the terms of this License and that the license for the Executable form does not attempt to limit or alter the recipient's rights in the Source Code form from the rights set forth in this License. If You distribute the Covered Software in Executable form under a different license, You must make it absolutely clear that any terms which differ from this License are offered by You alone, not by the Initial Developer or Contributor. You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of any such terms You offer.


You may create a Larger Work by combining Covered Software with other code not governed by the terms of this License and distribute the Larger Work as a single product. In such a case, You must make sure the requirements of this License are fulfilled for the Covered Software.

4. Versions of the License.

4.1. New Versions.

Sun Microsystems, Inc. is the initial license steward and may publish revised and/or new versions of this License from time to time. Each version will be given a distinguishing version number. Except as provided in Section 4.3, no one other than the license steward has the right to modify this License.

4.2. Effect of New Versions.

You may always continue to use, distribute or otherwise make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. If the Initial Developer includes a notice in the Original Software prohibiting it from being distributed or otherwise made available under any subsequent version of the License, You must distribute and make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. Otherwise, You may also choose to use, distribute or otherwise make the Covered Software available under the terms of any subsequent version of the License published by the license steward.

4.3. Modified Versions.

When You are an Initial Developer and You want to create a new license for Your Original Software, You may create and use a modified version of this License if You:
(a) rename the license and remove any references to the name of the license steward (except to note that the license differs from this License); and
(b) otherwise make it clear that the license contains terms which differ from this License.

5. DISCLAIMER OF WARRANTY.

COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN "AS IS" BASIS, WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED SOFTWARE IS FREE OF DEFECTS, MERCHANTABLE, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED SOFTWARE IS WITH YOU. SHOULD ANY COVERED SOFTWARE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE
OF ANY COVERED SOFTWARE IS AUTHORIZED HEREUNDER EXCEPT UNDER
THIS DISCLAIMER.

6. TERMINATION.

6.1. This License and the rights granted hereunder will terminate automatically if
You fail to comply with terms herein and fail to cure such breach within 30 days of
becoming aware of the breach. Provisions which, by their nature, must remain in effect
beyond the termination of this License shall survive.

6.2. If You assert a patent infringement claim (excluding declaratory judgment actions)
against Initial Developer or a Contributor (the Initial Developer or Contributor against
whom You assert such claim is referred to as .Participant.) alleging that the Participant
Software (meaning the Contributor Version where the Participant is a Contributor or
the Original Software where the Participant is the Initial Developer) directly or indirectly
infringes any patent, then any and all rights granted directly or indirectly to You by
such Participant, the Initial Developer (if the Initial Developer is not the Participant)
and all Contributors under Sections 2.1 and/or 2.2 of this License shall, upon 60 days
notice from Participant terminate prospectively and automatically at the expiration of
such 60 day notice period, unless if within such 60 day period You withdraw Your claim
with respect to the Participant Software against such Participant either unilaterally or
pursuant to a written agreement with Participant.

6.3. In the event of termination under Sections 6.1 or 6.2 above, all end user licenses
that have been validly granted by You or any distributor hereunder prior to termination
(excluding licenses granted to You by any distributor) shall survive termination.

7. LIMITATION OF LIABILITY.

UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER
TORT (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU,
THE INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR
OF COVERED SOFTWARE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES,
BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL,
OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT
LIMITATION, DAMAGES FOR LOST PROFITS, LOSS OF GOODWILL, WORK
STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER
COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE
BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION
OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL
INJURY RESULTING FROM SUCH PARTY’S NEGLIGENCE TO THE EXTENT
APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS
DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR
CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT
APPLY TO YOU.

8. U.S. GOVERNMENT END USERS.

The Covered Software is a .commercial item., as that term is defined in 48 C.F.R.
2.101 (Oct. 1995), consisting of .commercial computer software. (as that term is
deefined at 48 C.F.R. ? 252.227-7014(a)(1)) and commercial computer software
documentation. as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent
all U.S. Government End Users acquire Covered Software with only those rights set
forth herein. This U.S. Government Rights clause is in lieu of, and supersedes, any
other FAR, DFAR, or other clause or provision that addresses Government rights in
computer software under this License.
9. MISCELLANEOUS.

This License represents the complete agreement concerning subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. This License shall be governed by the law of the jurisdiction specified in a notice contained within the Original Software (except to the extent applicable law, if any, provides otherwise), excluding such jurisdiction’s conflict-of-law provisions. Any litigation relating to this License shall be subject to the jurisdiction of the courts located in the jurisdiction and venue specified in a notice contained within the Original Software, with the losing party responsible for costs, including, without limitation, court costs and reasonable attorneys’ fees and expenses. The application of the United Nations Convention on Contracts for the International Sale of Goods is expressly excluded. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not apply to this License. You agree that You alone are responsible for compliance with the United States export administration regulations (and the export control laws and regulation of any other countries) when You use, distribute or otherwise make available any Covered Software.

10. RESPONSIBILITY FOR CLAIMS.

As between Initial Developer and the Contributors, each party is responsible for claims and damages arising, directly or indirectly, out of its utilization of rights under this License and You agree to work with Initial Developer and Contributors to distribute such responsibility on an equitable basis. Nothing herein is intended or shall be deemed to constitute any admission of liability.

NOTICE PURSUANT TO SECTION 9 OF THE COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL)

The code released under the CDDL shall be governed by the laws of the State of California (excluding conflict-of-law provisions). Any litigation relating to this License shall be subject to the jurisdiction of the Federal Courts of the Northern District of California and the state courts of the State of California, with venue lying in Santa Clara County, California.

A.5 Apache Tomcat 8.5.39 License

NOTICE file from the download package from http://mirrors.up.pt/pub/apache/tomcat/tomcat-8/v8.5.23/src/apache-tomcat-8.5.23-src.tar.gz (replacing information referenced to Apache Tomcat Version 8.5.20 that was here before):

Apache Tomcat

Copyright 1999-2017 The Apache Software Foundation

This product includes software developed at

The Apache Software Foundation (http://www.apache.org/).

This software contains code derived from netty-native developed by the Netty project (http://netty.io, https://github.com/netty/netty-tnative/) and from finagle-native developed at Twitter (https://github.com/twitter/finagle).

The Windows Installer is built with the Nullsoft Scriptable Install System (NSIS), which is open source software. The original software and related information is available at http://nsis.sourceforge.net.
Java compilation software for JSP pages is provided by the Eclipse JDT Core Batch Compiler component, which is open source software. The original software and related information is available at http://www.eclipse.org/jdt/core/.

For portions of the Tomcat JNI OpenSSL API and the OpenSSL JSSE integration The org.apache.tomcat.jni and the org.apache.tomcat.net.openssl packages are derivative work originating from the Netty project and the finagle-native project developed at Twitter

- Copyright 2014 The Netty Project
- Copyright 2014 Twitter

The original XML Schemas for Java EE Deployment Descriptors:

- javaee_5.xsd
- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd

may be obtained from:


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

LICENSE file from the same package:

This product is licensed under the Apache 2.0 license agreement. See "The Apache Software License, Version 2.0".

APACHE TOMCAT SUBCOMPONENTS

Apache Tomcat includes a number of subcomponents with separate copyright notices and license terms. Your use of these subcomponents is subject to the terms and conditions of the following licenses.

For the Eclipse JDT Core Batch Compiler (ecj-x.x.x.jar) component:
Eclipse Public License - v 1.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

a. in the case of the initial Contributor, the initial code and documentation distributed under this Agreement, and

b. in the case of each subsequent Contributor:
   i. changes to the Program, and
   ii. additions to the Program;

where such changes and/or additions to the Program originate from and are distributed by that particular Contributor. A Contribution 'originates' from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include additions to the Program which: (i) are separate modules of software distributed in conjunction with the Program under their own license agreement, and (ii) are not derivative works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

"Program" means the Contributions distributed in accordance with this Agreement.

"Recipient" means anyone who receives the Program under this Agreement, including all Contributors.

2. GRANT OF RIGHTS

a. Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare derivative works of, publicly display, publicly perform, distribute and sublicense the Contribution of such Contributor, if any, and such derivative works, in source code and object code form.

b. Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in source code and object code form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

c. Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the
rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

d. Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under its own license agreement, provided that:

a. it complies with the terms and conditions of this Agreement; and

b. its license agreement:

i. effectively disclaims on behalf of all Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;

ii. effectively excludes on behalf of all Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;

iii. states that any provisions which differ from this Agreement are offered by that Contributor alone and not by any other party; and

iv. states that source code for the Program is available from such Contributor, and informs licensees how to obtain it in a reasonable manner on or through a medium customarily used for software exchange.

When the Program is made available in source code form:

a. it must be made available under this Agreement; and

b. a copy of this Agreement must be included with each copy of the Program.

Contributors may not remove or alter any copyright notices contained within the Program.

Each Contributor must identify itself as the originator of its Contribution, if any, in a manner that reasonably allows subsequent Recipients to identify the originator of the Contribution.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating
to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not
cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to distribute the Program (including its Contributions) under the new version. Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved.

This Agreement is governed by the laws of the State of New York and the intellectual property laws of the United States of America. No party to this Agreement will bring a legal action under this Agreement more than one year after the cause of action arose. Each party waives its rights to a jury trial in any resulting litigation.

For the Windows Installer component:

- All NSIS source code, plug-ins, documentation, examples, header files and graphics, with the exception of the compression modules and where otherwise noted, are licensed under the zlib/libpng license.
- The zlib compression module for NSIS is licensed under the zlib/libpng license.
- The bzip2 compression module for NSIS is licensed under the bzip2 license.
- The lzma compression module for NSIS is licensed under the Common Public License version 1.0.

This software is provided ‘as-is’, without any express or implied warranty. In no event will the authors be held liable for any damages arising from the use of this software.

Permission is granted to anyone to use this software for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not claim that you wrote the original software. If you use this software in a product, an acknowledgment in the product documentation would be appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.
bzip2 license

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. The origin of this software must not be misrepresented; you must not claim that you wrote the original software. If you use this software in a product, an acknowledgment in the product documentation would be appreciated but is not required.

3. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.

4. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Julian Seward, Cambridge, UK.

jseward@acm.org

Common Public License version 1.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS COMMON PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

1. DEFINITIONS

"Contribution" means:

   a. in the case of the initial Contributor, the initial code and documentation distributed under this Agreement, and b) in the case of each subsequent Contributor:

      i. changes to the Program, and

      ii. additions to the Program;

where such changes and/or additions to the Program originate from and are distributed by that particular Contributor. A Contribution 'originates' from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include additions to the Program which: (i) are separate modules of software distributed in conjunction with the Program under their own license agreement, and (ii) are not derivative works of the Program.
"Contributor" means any person or entity that distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

"Program" means the Contributions distributed in accordance with this Agreement.

"Recipient" means anyone who receives the Program under this Agreement, including all Contributors.

2. GRANT OF RIGHTS

   a. Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare derivative works of, publicly display, publicly perform, distribute and sublicense the Contribution of such Contributor, if any, and such derivative works, in source code and object code form.

   b. Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in source code and object code form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

   c. Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

   d. Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

3. REQUIREMENTS

   A Contributor may choose to distribute the Program in object code form under its own license agreement, provided that:

   a. it complies with the terms and conditions of this Agreement; and

   b. its license agreement:

      i. effectively disclaims on behalf of all Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;

      ii. effectively excludes on behalf of all Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;
iii. states that any provisions which differ from this Agreement are offered by that Contributor alone and not by any other party; and

iv. states that source code for the Program is available from such Contributor, and informs licensees how to obtain it in a reasonable manner on or through a medium customarily used for software exchange.

When the Program is made available in source code form:

a. it must be made available under this Agreement; and

b. a copy of this Agreement must be included with each copy of the Program.

Contributors may not remove or alter any copyright notices contained within the Program.

Each Contributor must identify itself as the originator of its Contribution, if any, in a manner that reasonably allows subsequent Recipients to identify the originator of the Contribution.

4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering.

The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED ON AN "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OR CONDITIONS OF TITLE, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks
associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against a Contributor with respect to a patent applicable to software (including a cross-claim or counterclaim in a lawsuit), then any patent licenses granted by that Contributor to such Recipient under this Agreement shall terminate as of the date such litigation is filed. In addition, if Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. IBM is the initial Agreement Steward. IBM may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to distribute the Program (including its Contributions) under the new version. Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly,
by implication, estoppel or otherwise. All rights in the Program not expressly
granted under this Agreement are reserved.

This Agreement is governed by the laws of the State of New York and the
intellectual property laws of the United States of America. No party to this
Agreement will bring a legal action under this Agreement more than one year
after the cause of action arose. Each party waives its rights to a jury trial in any
resulting litigation.

Special exception for LZMA compression module

Igor Pavlov and Amir Szekely, the authors of the LZMA compression module for NSIS,
expressly permit you to statically or dynamically link your code (or bind by name) to
the files from the LZMA compression module for NSIS without subjecting your linked
code to the terms of the Common Public license version 1.0. Any modifications or
additions to files from the LZMA compression module for NSIS, however, are subject
to the terms of the Common Public License version 1.0.

For the following XML Schemas for Java EE Deployment Descriptors:

- javaee_5.xsd
- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
- javaee_8.xsd
- web-app_4_0.xsd
- web-common_4_0.xsd
- web-fragment_4_0.xsd

COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.0

1. Definitions.

1.1. Contributor, means each individual or entity that creates or contributes to the
creation of Modifications.
1.2. Contributor Version. means the combination of the Original Software, prior Modifications used by a Contributor (if any), and the Modifications made by that particular Contributor.

1.3. Covered Software. means (a) the Original Software, or (b) Modifications, or (c) the combination of files containing Original Software with files containing Modifications, in each case including portions thereof.

1.4. Executable. means the Covered Software in any form other than Source Code.

1.5. Initial Developer. means the individual or entity that first makes Original Software available under this License.

1.6. Larger Work. means a work which combines Covered Software or portions thereof with code not governed by the terms of this License.

1.7. License. means this document.

1.8. Licensable. means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently acquired, any and all of the rights conveyed herein.

1.9. Modifications. means the Source Code and Executable form of any of the following:

A. Any file that results from an addition to, deletion from or modification of the contents of a file containing Original Software or previous Modifications;

B. Any new file that contains any part of the Original Software or previous Modification; or

C. Any new file that is contributed or otherwise made available under the terms of this License.

1.10. Original Software. means the Source Code and Executable form of computer software code that is originally released under this License.

1.11. Patent Claims. means any patent claim(s), now owned or hereafter acquired, including without limitation, method, process, and apparatus claims, in any patent Licensable by grantor.

1.12. Source Code. means (a) the common form of computer software code in which modifications are made and (b) associated documentation included in or with such code.

1.13. You. (or .Your.) means an individual or a legal entity exercising rights under, and complying with all of the terms of, this License. For legal entities, .You. includes any entity which controls, is controlled by, or is under common control with You. For purposes of this definition, .control. means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants.

2.1. The Initial Developer Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, the Initial Developer hereby grants You a world-wide, royalty-free, non-exclusive license:
(a) under intellectual property rights (other than patent or trademark) Licensable by Initial Developer, to use, reproduce, modify, display, perform, sublicense and distribute the Original Software (or portions thereof), with or without Modifications, and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using or selling of Original Software, to make, have made, use, practice, sell, and offer for sale, and/or otherwise dispose of the Original Software (or portions thereof).

(c) The licenses granted in Sections 2.1(a) and (b) are effective on the date Initial Developer first distributes or otherwise makes the Original Software available to a third party under the terms of this License.

(d) Notwithstanding Section 2.1(b) above, no patent license is granted: (1) for code that You delete from the Original Software, or (2) for infringements caused by: (i) the modification of the Original Software, or (ii) the combination of the Original Software with other software or devices.

2.2. Contributor Grant.

Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license:

(a) under intellectual property rights (other than patent or trademark) Licensable by Contributor to use, reproduce, modify, display, perform, sublicense and distribute the Modifications created by such Contributor (or portions thereof), either on an unmodified basis, with other Modifications, as Covered Software and/or as part of a Larger Work; and

(b) under Patent Claims infringed by the making, using, or selling of Modifications made by that Contributor either alone and/or in combination with its Contributor Version (or portions of such combination), to make, use, sell, offer for sale, have made, and/or otherwise dispose of: (1) Modifications made by that Contributor (or portions thereof); and (2) the combination of Modifications made by that Contributor with its Contributor Version (or portions of such combination).

(c) The licenses granted in Sections 2.2(a) and 2.2(b) are effective on the date Contributor first distributes or otherwise makes the Modifications available to a third party.

(d) Notwithstanding Section 2.2(b) above, no patent license is granted: (1) for any code that Contributor has deleted from the Contributor Version; (2) for infringements caused by: (i) third party modifications of Contributor Version, or (ii) the combination of Modifications made by that Contributor with other software (except as part of the Contributor Version) or other devices; or (3) under Patent Claims infringed by Covered Software in the absence of Modifications made by that Contributor.

3. Distribution Obligations.

3.1. Availability of Source Code.

Any Covered Software that You distribute or otherwise make available in Executable form must also be made available in Source Code form and that Source Code form must be distributed only under the terms of this License. You must include a copy of this License with every copy of the Source Code form of the Covered Software You distribute or otherwise make available. You must inform recipients of any such Covered Software in Executable form as to how they can obtain such Covered
Software in Source Code form in a reasonable manner on or through a medium customarily used for software exchange.

3.2. Modifications.

The Modifications that You create or to which You contribute are governed by the terms of this License. You represent that You believe Your Modifications are Your original creation(s) and/or You have sufficient rights to grant the rights conveyed by this License.

3.3. Required Notices.

You must include a notice in each of Your Modifications that identifies You as the Contributor of the Modification. You may not remove or alter any copyright, patent or trademark notices contained within the Covered Software, or any notices of licensing or any descriptive text giving attribution to any Contributor or the Initial Developer.

3.4. Application of Additional Terms.

You may not offer or impose any terms on any Covered Software in Source Code form that alters or restricts the applicable version of this License or the recipients, rights hereunder. You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, you may do so only on Your own behalf, and not on behalf of the Initial Developer or any Contributor. You must make it absolutely clear that any such warranty, support, indemnity or liability obligation is offered by You alone, and You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of warranty, support, indemnity or liability terms You offer.

3.5. Distribution of Executable Versions.

You may distribute the Executable form of the Covered Software under the terms of this License or under the terms of a license of Your choice, which may contain terms different from this License, provided that You are in compliance with the terms of this License and that the license for the Executable form does not attempt to limit or alter the recipient's rights in the Source Code form from the rights set forth in this License. If You distribute the Covered Software in Executable form under a different license, You must make it absolutely clear that any terms which differ from this License are offered by You alone, not by the Initial Developer or Contributor. You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of any such terms You offer.


You may create a Larger Work by combining Covered Software with other code not governed by the terms of this License and distribute the Larger Work as a single product. In such a case, You must make sure the requirements of this License are fulfilled for the Covered Software.

4. Versions of the License.

4.1. New Versions.

Sun Microsystems, Inc. is the initial license steward and may publish revised and/or new versions of this License from time to time. Each version will be given a distinguishing version number. Except as provided in Section 4.3, no one other than the license steward has the right to modify this License.

4.2. Effect of New Versions.
You may always continue to use, distribute or otherwise make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. If the Initial Developer includes a notice in the Original Software prohibiting it from being distributed or otherwise made available under any subsequent version of the License, You must distribute and make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. Otherwise, You may also choose to use, distribute or otherwise make the Covered Software available under the terms of any subsequent version of the License published by the license steward.

4.3. Modified Versions.

When You are an Initial Developer and You want to create a new license for Your Original Software, You may create and use a modified version of this License if You:
(a) rename the license and remove any references to the name of the license steward (except to note that the license differs from this License); and (b) otherwise make it clear that the license contains terms which differ from this License.

5. DISCLAIMER OF WARRANTY.

COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN "AS IS" BASIS, WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED SOFTWARE IS FREE OF DEFECTS, MERCHANTABLE, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED SOFTWARE IS WITH YOU. SHOULD ANY COVERED SOFTWARE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED SOFTWARE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

6. TERMINATION.

6.1. This License and the rights granted hereunder will terminate automatically if You fail to comply with terms herein and fail to cure such breach within 30 days of becoming aware of the breach. Provisions which, by their nature, must remain in effect beyond the termination of this License shall survive.

6.2. If You assert a patent infringement claim (excluding declaratory judgment actions) against Initial Developer or a Contributor (the Initial Developer or Contributor against whom You assert such claim is referred to as .Participant.) alleging that the Participant Software (meaning the Contributor Version where the Participant is a Contributor or the Original Software where the Participant is the Initial Developer) directly or indirectly infringes any patent, then any and all rights granted directly or indirectly to You by such Participant, the Initial Developer (if the Initial Developer is not the Participant) and all Contributors under Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice from Participant terminate prospectively and automatically at the expiration of such 60 day notice period, unless if within such 60 day period You withdraw Your claim with respect to the Participant Software against such Participant either unilaterally or pursuant to a written agreement with Participant.

6.3. In the event of termination under Sections 6.1 or 6.2 above, all end user licenses that have been validly granted by You or any distributor hereunder prior to termination (excluding licenses granted to You by any distributor) shall survive termination.

7. LIMITATION OF LIABILITY.
UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED SOFTWARE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOST PROFITS, LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTY’S NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

8. U.S. GOVERNMENT END USERS.

The Covered Software is a .commercial item., as that term is defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of .commercial computer software. (as that term is defined at 48 C.F.R. ? 252.227-7014(a)(1)) and commercial computer software documentation. as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users acquire Covered Software with only those rights set forth herein. This U.S. Government Rights clause is in lieu of, and supersedes, any other FAR, DFAR, or other clause or provision that addresses Government rights in computer software under this License.

9. MISCELLANEOUS.

This License represents the complete agreement concerning subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable. This License shall be governed by the law of the jurisdiction specified in a notice contained within the Original Software (except to the extent applicable law, if any, provides otherwise), excluding such jurisdiction’s conflict-of-law provisions. Any litigation relating to this License shall be subject to the jurisdiction of the courts located in the jurisdiction and venue specified in a notice contained within the Original Software, with the losing party responsible for costs, including, without limitation, court costs and reasonable attorneys’ fees and expenses. The application of the United Nations Convention on Contracts for the International Sale of Goods is expressly excluded. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not apply to this License. You agree that You alone are responsible for compliance with the United States export administration regulations (and the export control laws and regulation of any other countries) when You use, distribute or otherwise make available any Covered Software.

10. RESPONSIBILITY FOR CLAIMS.

As between Initial Developer and the Contributors, each party is responsible for claims and damages arising, directly or indirectly, out of its utilization of rights under this License and You agree to work with Initial Developer and Contributors to distribute such responsibility on an equitable basis. Nothing herein is intended or shall be deemed to constitute any admission of liability.
NOTICE PURSUANT TO SECTION 9 OF THE COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL)

The code released under the CDDL shall be governed by the laws of the State of California (excluding conflict-of-law provisions). Any litigation relating to this License shall be subject to the jurisdiction of the Federal Courts of the Northern District of California and the state courts of the State of California, with venue lying in Santa Clara County, California.

A.6 Font Awesome 4.5 License

SIL OPEN FONT LICENSE

Version 1.1 - 26 February 2007

PREAMBLE

The goals of the Open Font License (OFL) are to stimulate worldwide development of collaborative font projects, to support the font creation efforts of academic and linguistic communities, and to provide a free and open framework in which fonts may be shared and improved in partnership with others.

The OFL allows the licensed fonts to be used, studied, modified and redistributed freely as long as they are not sold by themselves. The fonts, including any derivative works, can be bundled, embedded, redistributed and/or sold with any software provided that any reserved names are not used by derivative works. The fonts and derivatives, however, cannot be released under any other type of license. The requirement for fonts to remain under this license does not apply to any document created using the fonts or their derivatives.

DEFINITIONS

"Font Software" refers to the set of files released by the Copyright Holder(s) under this license and clearly marked as such. This may include source files, build scripts and documentation.

"Reserved Font Name" refers to any names specified as such after the copyright statement(s).

"Original Version" refers to the collection of Font Software components as distributed by the Copyright Holder(s).

"Modified Version" refers to any derivative made by adding to, deleting, or substituting — in part or in whole — any of the components of the Original Version, by changing formats or by porting the Font Software to a new environment.

"Author" refers to any designer, engineer, programmer, technical writer or other person who contributed to the Font Software.

PERMISSION & CONDITIONS

Permission is hereby granted, free of charge, to any person obtaining a copy of the Font Software, to use, study, copy, merge, embed, modify, redistribute, and sell modified and unmodified copies of the Font Software, subject to the following conditions:

1. Neither the Font Software nor any of its individual components, in Original or Modified Versions, may be sold by itself.
2. Original or Modified Versions of the Font Software may be bundled, redistributed and/or sold with any software, provided that each copy contains the above copyright notice and this license. These can be included either as stand-alone text files, human-readable headers or in the appropriate machine-readable metadata fields within text or binary files as long as those fields can be easily viewed by the user.

3. No Modified Version of the Font Software may use the Reserved Font Name(s) unless explicit written permission is granted by the corresponding Copyright Holder. This restriction only applies to the primary font name as presented to the users.

4. The name(s) of the Copyright Holder(s) or the Author(s) of the Font Software shall not be used to promote, endorse or advertise any Modified Version, except to acknowledge the contribution(s) of the Copyright Holder(s) and the Author(s) or with their explicit written permission.

5. The Font Software, modified or unmodified, in part or in whole, must be distributed entirely under this license, and must not be distributed under any other license. The requirement for fonts to remain under this license does not apply to any document created using the Font Software.

TERMINATION

This license becomes null and void if any of the above conditions are not met.

DISCLAIMER

THE FONT SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF COPYRIGHT, PATENT, TRADEMARK, OR OTHER RIGHT. IN NO EVENT SHALL THE COPYRIGHT HOLDER BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, INCLUDING ANY GENERAL, SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF THE USE OR INABILITY TO USE THE FONT SOFTWARE OR FROM OTHER DEALINGS IN THE FONT SOFTWARE.

Font Awesome CSS, LESS, and SASS files were received under the following license:

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
A.7 GeoNames Data 1.1.11 License

This distribution includes and/or the service uses a modified version of the GeoNames geographical database (For distributions: which may be found in the following file: INSERT FILE NAME). The original GeoNames database is available at www.geonames.org under the license set forth below.

CREATIVE COMMONS CORPORATION IS NOT A LAW FIRM AND DOES NOT PROVIDE LEGAL SERVICES. DISTRIBUTION OF THIS LICENSE DOES NOT CREATE AN ATTORNEY-CLIENT RELATIONSHIP. CREATIVE COMMONS PROVIDES THIS INFORMATION ON AN "AS-IS" BASIS. CREATIVE COMMONS MAKES NO WARRANTIES REGARDING THE INFORMATION PROVIDED, AND DISCLAIMS LIABILITY FOR DAMAGES RESULTING FROM ITS USE.

License

THE WORK (AS DEFINED BELOW) IS PROVIDED UNDER THE TERMS OF THIS CREATIVE COMMONS PUBLIC LICENSE ("CCPL" OR "LICENSE"). THE WORK IS PROTECTED BY COPYRIGHT AND/OR OTHER APPLICABLE LAW. ANY USE OF THE WORK OTHER THAN AS AUTHORIZED UNDER THIS LICENSE OR COPYRIGHT LAW IS PROHIBITED.

BY EXERCISING ANY RIGHTS TO THE WORK PROVIDED HERE, YOU ACCEPT AND AGREE TO BE BOUND BY THE TERMS OF THIS LICENSE. TO THE EXTENT THIS LICENSE MAY BE CONSIDERED TO BE A CONTRACT, THE LICENSOR GRANTS YOU THE RIGHTS CONTAINED HERE IN CONSIDERATION OF YOUR ACCEPTANCE OF SUCH TERMS AND CONDITIONS.

1. Definitions

"Adaptation" means a work based upon the Work, or upon the Work and other pre-existing works, such as a translation, adaptation, derivative work, arrangement of music or other alterations of a literary or artistic work, or phonogram or performance and includes cinematographic adaptations or any other form in which the Work may be recast, transformed, or adapted including in any form recognizably derived from the original, except that a work that constitutes a Collection will not be considered an Adaptation for the purpose of this License. For the avoidance of doubt, where the Work is a musical work, performance or phonogram, the synchronization of the Work in timed-relation with a moving image ("synching") will be considered an Adaptation for the purpose of this License.

"Collection" means a collection of literary or artistic works, such as encyclopedias and anthologies, or performances, phonograms or broadcasts, or other works or subject matter other than works listed in Section 1(f) below, which, by reason of the selection and arrangement of their contents, constitute intellectual creations, in which the Work is included in its entirety in unmodified form along with one or more other contributions, each constituting separate and independent works in themselves, which together are assembled into a collective whole. A work that constitutes a Collection will not be considered an Adaptation (as defined above) for the purposes of this License.

"Distribute" means to make available to the public the original and copies of the Work or Adaptation, as appropriate, through sale or other transfer of ownership.

"Licensor" means the individual, individuals, entity or entities that offer(s) the Work under the terms of this License.
"Original Author" means, in the case of a literary or artistic work, the individual, individuals, entity or entities who created the Work or if no individual or entity can be identified, the publisher; and in addition (i) in the case of a performance the actors, singers, musicians, dancers, and other persons who act, sing, deliver, declaim, play in, interpret or otherwise perform literary or artistic works or expressions of folklore; (ii) in the case of a phonogram the producer being the person or legal entity who first fixes the sounds of a performance or other sounds; and, (iii) in the case of broadcasts, the organization that transmits the broadcast.

"Work" means the literary and/or artistic work offered under the terms of this License including without limitation any production in the literary, scientific and artistic domain, whatever may be the mode or form of its expression including digital form, such as a book, pamphlet and other writing; a lecture, address, sermon or other work of the same nature; a dramatic or dramatico-musical work; a choreographic work or entertainment in dumb show; a musical composition with or without words; a cinematographic work to which are assimilated works expressed by a process analogous to cinematography; a work of drawing, painting, architecture, sculpture, engraving or lithography; a photographic work to which are assimilated works expressed by a process analogous to photography; a work of applied art; an illustration, map, plan, sketch or three-dimensional work relative to geography, topography, architecture or science; a performance; a broadcast; a phonogram; a compilation of data to the extent it is protected as a copyrightable work; or a work performed by a variety or circus performer to the extent it is not otherwise considered a literary or artistic work.

"You" means an individual or entity exercising rights under this License who has not previously violated the terms of this License with respect to the Work, or who has received express permission from the Licensor to exercise rights under this License despite a previous violation.

"Publicly Perform" means to perform public recitations of the Work and to communicate to the public those public recitations, by any means or process, including by wire or wireless means or public digital performances; to make available to the public Works in such a way that members of the public may access these Works from a place and at a place individually chosen by them; to perform the Work to the public by any means or process and the communication to the public of the performances of the Work, including by public digital performance; to broadcast and rebroadcast the Work by any means including signs, sounds or images.

"Reproduce" means to make copies of the Work by any means including without limitation by sound or visual recordings and the right of fixation and reproducing fixations of the Work, including storage of a protected performance or phonogram in digital form or other electronic medium.

2. Fair Dealing Rights. Nothing in this License is intended to reduce, limit, or restrict any uses free from copyright or rights arising from limitations or exceptions that are provided for in connection with the copyright protection under copyright law or other applicable laws.

3. License Grant. Subject to the terms and conditions of this License, Licensor hereby grants You a worldwide, royalty-free, non-exclusive, perpetual (for the duration of the applicable copyright) license to exercise the rights in the Work as stated below:

• to Reproduce the Work, to incorporate the Work into one or more Collections, and to Reproduce the Work as incorporated in the Collections;
• to create and Reproduce Adaptations provided that any such Adaptation, including any translation in any medium, takes reasonable steps to clearly label, demarcate or otherwise identify that changes were made to the original Work. For example, a translation could be marked “The original work was translated from English to Spanish,” or a modification could indicate “The original work has been modified.”;

• to Distribute and Publicly Perform the Work including as incorporated in Collections; and,

• to Distribute and Publicly Perform Adaptations.

• For the avoidance of doubt:

Non-waivable Compulsory License Schemes. In those jurisdictions in which the right to collect royalties through any statutory or compulsory licensing scheme cannot be waived, the Licensor reserves the exclusive right to collect such royalties for any exercise by You of the rights granted under this License; Waivable Compulsory License Schemes. In those jurisdictions in which the right to collect royalties through any statutory or compulsory licensing scheme can be waived, the Licensor waives the exclusive right to collect such royalties for any exercise by You of the rights granted under this License; and, Voluntary License Schemes. The Licensor waives the right to collect royalties, whether individually or, in the event that the Licensor is a member of a collecting society that administers voluntary licensing schemes, via that society, from any exercise by You of the rights granted under this License. The above rights may be exercised in all media and formats whether now known or hereafter devised. The above rights include the right to make such modifications as are technically necessary to exercise the rights in other media and formats. Subject to Section 8(f), all rights not expressly granted by Licensor are hereby reserved.

4. Restrictions. The license granted in Section 3 above is expressly made subject to and limited by the following restrictions:

You may Distribute or Publicly Perform the Work only under the terms of this License. You must include a copy of, or the Uniform Resource Identifier (URI) for, this License with every copy of the Work You Distribute or Publicly Perform. You may not offer or impose any terms on the Work that restrict the terms of this License or the ability of the recipient of the Work to exercise the rights granted to that recipient under the terms of the License. You may not sublicense the Work. You must keep intact all notices that refer to this License and to the disclaimer of warranties with every copy of the Work You Distribute or Publicly Perform. When You Distribute or Publicly Perform the Work, You may not impose any effective technological measures on the Work that restrict the ability of a recipient of the Work from You to exercise the rights granted to that recipient under the terms of the License. This Section 4(a) applies to the Work as incorporated in a Collection, but this does not require the Collection apart from the Work itself to be made subject to the terms of this License. If You create a Collection, upon notice from any Licensor You must, to the extent practicable, remove from the Collection any credit as required by Section 4(b), as requested. If You create an Adaptation, upon notice from any Licensor You must, to the extent practicable, remove from the Adaptation any credit as required by Section 4(b), as requested.

If You Distribute, or Publicly Perform the Work or any Adaptations or Collections, You must, unless a request has been made pursuant to Section 4(a), keep intact all copyright notices for the Work and provide, reasonable to the medium or means You are utilizing: (i) the name of the Original Author (or pseudonym, if applicable) if supplied, and/or if the Original Author and/or Licensor designate
another party or parties (e.g., a sponsor institute, publishing entity, journal) for attribution ("Attribution Parties") in Licensor's copyright notice, terms of service or by other reasonable means, the name of such party or parties; (ii) the title of the Work if supplied; (iii) to the extent reasonably practicable, the URI, if any, that Licensor specifies to be associated with the Work, unless such URI does not refer to the copyright notice or licensing information for the Work; and (iv), consistent with Section 3(b), in the case of an Adaptation, a credit identifying the use of the Work in the Adaptation (e.g., "French translation of the Work by Original Author," or "Screenplay based on original Work by Original Author"). The credit required by this Section 4(b) may be implemented in any reasonable manner; provided, however, that in the case of a Adaptation or Collection, at a minimum such credit will appear, if a credit for all contributing authors of the Adaptation or Collection appears, then as part of these credits and in a manner at least as prominent as the credits for the other contributing authors. For the avoidance of doubt, You may only use the credit required by this Section for the purpose of attribution in the manner set out above and, by exercising Your rights under this License, You may not implicitly or explicitly assert or imply any connection with, sponsorship or endorsement by the Original Author, Licensor and/or Attribution Parties, as appropriate, of You or Your use of the Work, without the separate, express prior written permission of the Original Author, Licensor and/or Attribution Parties.

Except as otherwise agreed in writing by the Licensor or as may be otherwise permitted by applicable law, if You Reproduce, Distribute or Publicly Perform the Work either by itself or as part of any Adaptations or Collections, You must not distort, mutilate, modify or take other derogatory action in relation to the Work which would be prejudicial to the Original Author's honor or reputation. Licensor agrees that in those jurisdictions (e.g. Japan), in which any exercise of the right granted in Section 3(b) of this License (the right to make Adaptations) would be deemed to be a distortion, mutilation, modification or other derogatory action prejudicial to the Original Author's honor and reputation, the Licensor will waive or not assert, as appropriate, this Section, to the fullest extent permitted by the applicable national law, to enable You to reasonably exercise Your right under Section 3(b) of this License (right to make Adaptations) but not otherwise.

5. Representations, Warranties and Disclaimer

UNLESS OTHERWISE MUTUALLY AGREED TO BY THE PARTIES IN WRITING, LICENSOR OFFERS THE WORK AS-IS AND MAKES NO REPRESENTATIONS OR WARRANTIES OF ANY KIND CONCERNING THE WORK, EXPRESS, IMPLIED, STATUTORY OR OTHERWISE, INCLUDING, WITHOUT LIMITATION, WARRANTIES OF TITLE, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, NONINFRINGEMENT, OR THE ABSENCE OF LATENT OR OTHER DEFECTS, ACCURACY, OR THE PRESENCE OF ABSENCE OF ERRORS, WHETHER OR NOT DISCOVERABLE. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OF IMPLIED WARRANTIES, SO SUCH EXCLUSION MAY NOT APPLY TO YOU.

6. Limitation on Liability. EXCEPT TO THE EXTENT REQUIRED BY APPLICABLE LAW, IN NO EVENT WILL LICENSOR BE LIABLE TO YOU ON ANY LEGAL THEORY FOR ANY SPECIAL, INCIDENTAL, CONSEQUENTIAL, PUNITIVE OR EXEMPLARY DAMAGES ARISING OUT OF THIS LICENSE OR THE USE OF THE WORK, EVEN IF LICENSOR HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

7. Termination

This License and the rights granted hereunder will terminate automatically upon any breach by You of the terms of this License. Individuals or entities who have
received Adaptations or Collections from You under this License, however, will not have their licenses terminated provided such individuals or entities remain in full compliance with those licenses. Sections 1, 2, 5, 6, 7, and 8 will survive any termination of this License.

Subject to the above terms and conditions, the license granted here is perpetual (for the duration of the applicable copyright in the Work). Notwithstanding the above, Licensor reserves the right to release the Work under different license terms or to stop distributing the Work at any time; provided, however that any such election will not serve to withdraw this License (or any other license that has been, or is required to be, granted under the terms of this License), and this License will continue in full force and effect unless terminated as stated above.

8. Miscellaneous

Each time You Distribute or Publicly Perform the Work or a Collection, the Licensor offers to the recipient a license to the Work on the same terms and conditions as the license granted to You under this License.

Each time You Distribute or Publicly Perform an Adaptation, Licensor offers to the recipient a license to the original Work on the same terms and conditions as the license granted to You under this License.

If any provision of this License is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this License, and without further action by the parties to this agreement, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

No term or provision of this License shall be deemed waived and no breach consented to unless such waiver or consent shall be in writing and signed by the party to be charged with such waiver or consent.

This License constitutes the entire agreement between the parties with respect to the Work licensed here. There are no understandings, agreements or representations with respect to the Work not specified here. Licensor shall not be bound by any additional provisions that may appear in any communication from You. This License may not be modified without the mutual written agreement of the Licensor and You.

The rights granted under, and the subject matter referenced, in this License were drafted utilizing the terminology of the Berne Convention for the Protection of Literary and Artistic Works (as amended on September 28, 1979), the Rome Convention of 1961, the WIPO Copyright Treaty of 1996, the WIPO Performances and Phonograms Treaty of 1996 and the Universal Copyright Convention (as revised on July 24, 1971). These rights and subject matter take effect in the relevant jurisdiction in which the License terms are sought to be enforced according to the corresponding provisions of the implementation of those treaty provisions in the applicable national law. If the standard suite of rights granted under applicable copyright law includes additional rights not granted under this License, such additional rights are deemed to be included in the License; this License is not intended to restrict the license of any rights under applicable law.

Creative Commons Notice

Creative Commons is not a party to this License, and makes no warranty whatsoever in connection with the Work. Creative Commons will not be liable to You or any party on any legal theory for any damages whatsoever, including without limitation any general, special, incidental or consequential damages arising in connection to this license. Notwithstanding the foregoing two (2) sentences, if Creative Commons
has expressly identified itself as the Licensor hereunder, it shall have all rights and
obligations of Licensor.

Except for the limited purpose of indicating to the public that the Work is licensed
under the CCPL, Creative Commons does not authorize the use by either party of
the trademark "Creative Commons" or any related trademark or logo of Creative
Commons without the prior written consent of Creative Commons. Any permitted
use will be in compliance with Creative Commons' then-current trademark usage
guidelines, as may be published on its website or otherwise made available upon
request from time to time. For the avoidance of doubt, this trademark restriction does
not form part of this License.

Creative Commons may be contacted at http://creativecommons.org/.

A.8 Geospatial Data Abstraction Library/OpenGIS Simple Features Reference Implementation (GDAL/OGR) 2.1 License

GDAL/OGR Licensing

This file attempts to include all licenses that apply within the GDAL/OGR source
tree, in particular any that are supposed to be exposed to the end user for credit
requirements for instance. The contents of this file can be displayed from GDAL
commandline utilities using the --license commandline switch.

GDAL/OGR General

In general GDAL/OGR is licensed under an MIT/X style license with the following
terms:

Permission is hereby granted, free of charge, to any person obtaining a copy of
this software and associated documentation files (the "Software"), to deal in the
Software without restriction, including without limitation the rights to use, copy, modify,
merge, publish, distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice shall be included in all copies or
substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY
KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE
AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

gdal/frmts/gtiff/tif_float.c

Copyright (c) 2002, Industrial Light & Magic, a division of Lucas Digital Ltd. LLC

All rights reserved.
Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- Neither the name of Industrial Light & Magic nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

**gdal/frmts/hdf4/hdf-eos/**

Copyright (C) 1996 Hughes and Applied Research Corporation

Permission to use, modify, and distribute this software and its documentation for any purpose without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation.

**gdal/frmts/pcraster/libcsf**

Copyright (c) 1997-2003, Utrecht University

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- Neither the name of Utrecht University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN
ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

gdal/frmts/grib/degrib/*

The degrib and g2clib source code are modified versions of code produced by NOAA
NWS and are in the public domain subject to the following restrictions:

http://www.weather.gov/im/softa.htm

DISCLAIMER The United States Government makes no warranty, expressed or
implied, as to the usefulness of the software and documentation for any purpose.
The U.S. Government, its instrumentalities, officers, employees, and agents assumes
no responsibility (1) for the use of the software and documentation listed below, or (2)
to provide technical support to users.

http://www.weather.gov/disclaimer.php

The information on government servers are in the public domain, unless specifically
annotated otherwise, and may be used freely by the public so long as you do not 1) claim it is your own (e.g. by claiming copyright for NWS information -- see below),
2) use it in a manner that implies an endorsement or affiliation with NOAA/NWS, or
3) modify it in content and then present it as official government material. You also
cannot present information of your own in a way that makes it appear to be official
government information.

The user assumes the entire risk related to its use of this data. NWS is providing this
data "as is," and NWS disclaims any and all warranties, whether express or implied,
including (without limitation) any implied warranties of merchantability or fitness for a
particular purpose. In no event will NWS be liable to you or to any third party for any
direct, indirect, incidental, consequential, special or exemplary damages or lost profit
resulting from any use or misuse of this data.

As required by 17 U.S.C. 403, third parties producing copyrighted works consisting
predominantly of the material appearing in NWS Web pages must provide notice with such
work(s) identifying the NWS material incorporated and stating that such material
is not subject to copyright protection.

port/cpl_minizip*

This is version 2005-Feb-10 of the Info-ZIP copyright and license. The definitive
version of this document should be available at ftp://ftp.info-zip.org/pub/infozip/
license.html indefinitely.

Copyright (c) 1990-2005 Info-ZIP. All rights reserved.

For the purposes of this copyright and license, "Info-ZIP" is defined as the following set
of individuals: Mark Adler, John Bush, Karl Davis, Harald Denker, Jean-Michel Dubois,
Jean-loup Gailly, Hunter Goatley, Ed Gordon, Ian Gorman, Chris Herborst, Dirk Haase,
Greg Hartwig, Robert Heath, Jonathan Hudson, Paul Kienitz, David Kirschbaum,
Johnny Lee, Onno van der Linden, Igor Mandrichenko, Steve P. Miller, Sergio Monesi,
Keith Owens, George Petrov, Greg Roelofs, Kai Uwe Rommel, Steve Salisbury, Dave
Smith, Steven M. Schweda, Christian Spieler, Cosmin Truta, Antoine Verheijen, Paul von Behren, Rich Wales, Mike White

This software is provided "as is," without warranty of any kind, express or implied. In no event shall Info-ZIP or its contributors be held liable for any direct, indirect, incidental, special or consequential damages arising out of the use of or inability to use this software.

Permission is granted to anyone to use this software for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the following restrictions:

1. Redistributions of source code must retain the above copyright notice, definition, disclaimer, and this list of conditions.

2. Redistributions in binary form (compiled executables) must reproduce the above copyright notice, definition, disclaimer, and this list of conditions in documentation and/or other materials provided with the distribution. The sole exception to this condition is redistribution of a standard UnZipSFX binary (including SFXWiz) as part of a self-extracting archive; that is permitted without inclusion of this license, as long as the normal SFX banner has not been removed from the binary or disabled.

3. Altered versions--including, but not limited to, ports to new operating systems, existing ports with new graphical interfaces, and dynamic, shared, or static library versions--must be plainly marked as such and must not be misrepresented as being the original source. Such altered versions also must not be misrepresented as being Info-ZIP releases--including, but not limited to, labeling of the altered versions with the names "Info-ZIP" (or any variation thereof, including, but not limited to, different capitalizations), "Pocket UnZip," "WiZ" or "MacZip" without the explicit permission of Info-ZIP. Such altered versions are further prohibited from misrepresentative use of the Zip-Bugs or Info-ZIP e-mail addresses or of the Info-ZIP URL(s).


gdal/ogr/ogrsf_frmts/dxf/intronurbs.cpp

This code is derived from the code associated with the book "An Introduction to NURBS" by David F. Rogers. More information on the book and the code is available at: http://www.nar-associates.com/nurbs/

Copyright (c) 2009, David F. Rogers

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

• Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

• Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

• Neither the name of the David F. Rogers nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

A.9 JavaScript Extension Toolkit (JET) 2.0.2 License

Copyright (c) 2014, 2016 Oracle and/or its affiliates

The Universal Permissive License (UPL), Version 1.0

Subject to the condition set forth below, permission is hereby granted to any person obtaining a copy of this software, associated documentation and/or data (collectively the "Software"), free of charge and under any and all copyright rights in the Software, and any and all patent rights owned or freely licensable by each licensor hereunder covering either (i) the unmodified Software as contributed to or provided by such licensor, or (ii) the Larger Works (as defined below), to deal in both (a) the Software, and (b) any piece of software and/or hardware listed in the lrgwrks.txt file if one is included with the Software (each a "Larger Work" to which the Software is contributed by such licensors), without restriction, including without limitation the rights to copy, create derivative works of, display, perform, and distribute the Software and make, use, sell, offer for sale, import, export, have made, and have sold the Software and the Larger Work(s), and to sublicense the foregoing rights on either these or other terms.

This license is subject to the following condition:

The above copyright notice and either this complete permission notice or at a minimum a reference to the UPL must be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

---------------------------------------------------------------------------------
---
List of third party code and license attributions:

THIRD-PARTY COMPONENT FILE | LICENSE
(path in the installation)    | (see license text reproduced below)
---------------------------------------------------------------------------------
---
=== Knockout.js 3.4.0 ===

The MIT License (MIT) - http://www.opensource.org/licenses/mit-license.php

Copyright (c) Steven Sanderson, the Knockout.js team, and other contributors

http://knockoutjs.com/

Permission is hereby granted, free of charge, to any person obtaining a copy of
this software and associated documentation files (the "Software"), to deal in the
Software without restriction, including without limitation the rights to use, copy, modify,
merge, publish, distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice shall be included in all copies or
substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY
KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE
AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

=== Knockout/Mapping plugin v2.4.1 ===

The MIT License (MIT) - http://www.opensource.org/licenses/mit-license.php

Copyright (c) Steven Sanderson, Roy Jacobs

http://knockoutjs.com/documentation/plugins-mapping.html
Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the “Software”), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

=== knockout-amd-helpers 0.7.3 ===

The MIT License (MIT)

Copyright (c) 2015 Ryan Niemeyer

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the “Software”), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

=== Normalize.css ===

Copyright (c) Nicolas Gallagher and Jonathan Neal

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the “Software”), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

=== Foundation Responsive Library ===

Copyright (c) 2013-2015 ZURB, inc.

MIT License

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

=== RequireJS i18n 2.0.2 ===

MIT License 2.0.2

Copyright (c) 2010-2011, The Dojo Foundation

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

=== jsTree 1.0-rc3 ===

Copyright (c) 2014 Ivan Bozhanov

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the “Software”), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED “AS IS”, WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

=== Select2.js ===

Copyright 2012 Igor Vaynberg

This software is licensed under the Apache License, Version 2.0 (the “Apache License”) or the GNU General Public License version 2 (the “GPL License”). You may choose either license to govern your use of this software only upon the condition that you accept all of the terms of either the Apache License or the GPL License.

You may obtain a copy of the Apache License and the GPL License at:

http://www.apache.org/licenses/LICENSE-2.0

http://www.gnu.org/licenses/gpl-2.0.html

Unless required by applicable law or agreed to in writing, software distributed under the Apache License or the GPL License is distributed on an “AS IS” BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the Apache License and the GPL License for the specific language governing permissions and limitations under the Apache License and the GPL License.

=== ES6-Promise v1.0.0 ===

Copyright (c) 2014 Yehuda Katz, Tom Dale, Stefan Penner and contributors

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the “Software”), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

=== History API JavaScript Library v4.1.0 ===

MIT License (MIT)

Copyright (c) 2010-2014 Dmitrii Pakhtinov

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

=== jQuery UI - v1.11.4 ===

Includes: core.js, widget.js, mouse.js, position.js, draggable.js, sortable.js

Copyright jQuery Foundation and other contributors, https://jquery.org/

This software consists of voluntary contributions made by many individuals. For exact contribution history, see the revision history available at https://github.com/jquery/jquery-ui

The following license applies to all parts of this software except as documented below:

====

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

=== jQuery JavaScript Library v2.1.3 ===

Copyright jQuery Foundation and other contributors, https://jquery.org/

This software consists of voluntary contributions made by many individuals. For exact contribution history, see the revision history available at https://github.com/jquery/jquery

The following license applies to all parts of this software except as documented below:

====

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

=== ES6-Promise v1.0.0 ===

Copyright (c) 2012 Miller Medeiros

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

=== RequireJS text 2.0.12 ===

MIT License

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

Copyright (c) 2010-2014, The Dojo Foundation

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

=== RequireJS 2.1.16 ===

MIT License

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

Copyright (c) 2010-2015, The Dojo Foundation

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

/*! Hammer.JS - v2.0.4 - 2014-09-28 */
http://hammerjs.github.io/
This product is licensed under the Apache 2.0 license agreement. See The Apache Software License, Version 2.0.

A.10 JavaScript Extension Toolkit (JET) 3.0.0 License

Copyright (c) 2014, 2016 Oracle and/or its affiliates

The Universal Permissive License (UPL), Version 1.0

Subject to the condition set forth below, permission is hereby granted to any person obtaining a copy of this software, associated documentation and/or data (collectively the "Software"), free of charge and under any and all copyright rights in the Software, and any and all patent rights owned or freely licensable by each licensor hereunder covering either (i) the unmodified Software as contributed to or provided by such licensor, or (ii) the Larger Works (as defined below), to deal in both (a) the Software, and (b) any piece of software and/or hardware listed in the lrgrwrks.txt file if one is included with the Software (each a "Larger Work" to which the Software is contributed by such licensors), without restriction, including without limitation the rights to copy, create derivative works of, display, perform, and distribute the Software and make, use, sell, offer for sale, import, export, have made, and have sold the Software and the Larger Work(s), and to sublicense the foregoing rights on either these or other terms.

This license is subject to the following condition:

The above copyright notice and either this complete permission notice or at a minimum a reference to the UPL must be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

List of third party code and license attributions:

<table>
<thead>
<tr>
<th>THIRD-PARTY COMPONENT FILE</th>
<th>LICENSE</th>
</tr>
</thead>
<tbody>
<tr>
<td>(path in the installation)</td>
<td>(see license text reproduced below)</td>
</tr>
</tbody>
</table>

---

js/libs/knockout/knockout-3.4.0.js | MIT  
js/libs/knockout/knockout-mapping-latest.js | MIT  
js/libs/knockout/knockout-amd-helpers | MIT  
scss/oj/v1.1.0/3rdparty/normalize/normalize.scss | MIT  
js/libs/oj/v1.1.0/ojI18n.js (requireJS i18n) | MIT  
js/libs/oj/v1.1.0/min/ojtree.js (jsTree.js) | MIT  
js/libs/oj/v1.1.0/min/ojselectcombobox.js (Select2.js) | Apache 2.0  
js/libs/es6-promise/promise-1.0.0.js | MIT  

APPENDIX A

JavaScript Extension Toolkit (JET) 3.0.0 License

Copyright (c) 2014, 2016 Oracle and/or its affiliates

The Universal Permissive License (UPL), Version 1.0

Subject to the condition set forth below, permission is hereby granted to any person obtaining a copy of this software, associated documentation and/or data (collectively the "Software"), free of charge and under any and all copyright rights in the Software, and any and all patent rights owned or freely licensable by each licensor hereunder covering either (i) the unmodified Software as contributed to or provided by such licensor, or (ii) the Larger Works (as defined below), to deal in both (a) the Software, and (b) any piece of software and/or hardware listed in the lrgrwrks.txt file if one is included with the Software (each a "Larger Work" to which the Software is contributed by such licensors), without restriction, including without limitation the rights to copy, create derivative works of, display, perform, and distribute the Software and make, use, sell, offer for sale, import, export, have made, and have sold the Software and the Larger Work(s), and to sublicense the foregoing rights on either these or other terms.

This license is subject to the following condition:

The above copyright notice and either this complete permission notice or at a minimum a reference to the UPL must be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

List of third party code and license attributions:

<table>
<thead>
<tr>
<th>THIRD-PARTY COMPONENT FILE</th>
<th>LICENSE</th>
</tr>
</thead>
<tbody>
<tr>
<td>(path in the installation)</td>
<td>(see license text reproduced below)</td>
</tr>
</tbody>
</table>

---

js/libs/knockout/knockout-3.4.0.js | MIT  
js/libs/knockout/knockout-mapping-latest.js | MIT  
js/libs/knockout/knockout-amd-helpers | MIT  
scss/oj/v1.1.0/3rdparty/normalize/normalize.scss | MIT  
js/libs/oj/v1.1.0/ojI18n.js (requireJS i18n) | MIT  
js/libs/oj/v1.1.0/min/ojtree.js (jsTree.js) | MIT  
js/libs/oj/v1.1.0/min/ojselectcombobox.js (Select2.js) | Apache 2.0  
js/libs/es6-promise/promise-1.0.0.js | MIT  

ORACLE
=== Knockout.js 3.4.0 ===

The MIT License (MIT) - http://www.opensource.org/licenses/mit-license.php

Copyright (c) Steven Sanderson, the Knockout.js team, and other contributors

http://knockoutjs.com/

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

=== Knockout Mapping plugin v2.4.1 ===

The MIT License (MIT) - http://www.opensource.org/licenses/mit-license.php

Copyright (c) Steven Sanderson, Roy Jacobs

http://knockoutjs.com/documentation/plugins-mapping.html

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.
THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

=== knockout-amd_helpers 0.7.3 ===

The MIT License (MIT)

Copyright (c) 2015 Ryan Niemeyer

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

=== Normalize.css ===

Copyright (c) Nicolas Gallagher and Jonathan Neal

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

=== Foundation Responsive Library ===
Copyright (c) 2013-2015 ZURB, inc.

MIT License

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

=== RequireJS i18n 2.0.2 ===

MIT License

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

Copyright (c) 2010-2011, The Dojo Foundation

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

=== jsTree 1.0-rc3 ===

Copyright (c) 2014 Ivan Bozhanov

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

=== Select2.js ===

Copyright 2012 Igor Vaynberg

This software is licensed under the Apache License, Version 2.0 (the "Apache License") or the GNU General Public License version 2 (the "GPL License"). You may choose either license to govern your use of this software only upon the condition that you accept all of the terms of either the Apache License or the GPL License.

You may obtain a copy of the Apache License and the GPL License at:

http://www.apache.org/licenses/LICENSE-2.0
http://www.gnu.org/licenses/gpl-2.0.html

Unless required by applicable law or agreed to in writing, software distributed under the Apache License or the GPL License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the Apache License and the GPL License for the specific language governing permissions and limitations under the Apache License and the GPL License.

=== ES6-Promise v1.0.0 ===

Copyright (c) 2014 Yehuda Katz, Tom Dale, Stefan Penner and contributors

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

=== History API JavaScript Library v4.1.0 ===

MIT License (MIT)
Copyright (c) 2010-2014 Dmitrii Pakhtinov

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

=== jQuery UI - v1.11.4 ===

Includes: core.js, widget.js, mouse.js, position.js, draggable.js, sortable.js

Copyright jQuery Foundation and other contributors, https://jquery.org/

This software consists of voluntary contributions made by many individuals. For exact contribution history, see the revision history available at https://github.com/jquery/jquery-ui

The following license applies to all parts of this software except as documented below:

====

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

=== jQuery JavaScript Library v2.1.3 ===

Copyright jQuery Foundation and other contributors, https://jquery.org/
This software consists of voluntary contributions made by many individuals. For exact contribution history, see the revision history available at https://github.com/jquery/jquery

The following license applies to all parts of this software except as documented below:

====

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

=== ES6-Promise v1.0.0 ===

Copyright (c) 2012 Miller Medeiros

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

=== RequireJS text 2.0.12 ===

MIT License

Copyright (c) 2010-2014, The Dojo Foundation

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the
Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

== RequireJS 2.1.16 ==

MIT License

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

Copyright (c) 2010-2015, The Dojo Foundation

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

/!* Hammer.JS - v2.0.4 - 2014-09-28 */
* http://hammerjs.github.io/
* Copyright (c) 2014 Jorik Tangelder;
* Licensed under the MIT license
*/

This product is licensed under the Apache 2.0 license agreement. See The Apache Software License, Version 2.0.

A.11 JavaScript Extension Toolkit (JET) 3.2.0 License

Copyright (c) 2014, 2017 Oracle and/or its affiliates

The Universal Permissive License (UPL), Version 1.0
Subject to the condition set forth below, permission is hereby granted to any person obtaining a copy of this software, associated documentation and/or data (collectively the “Software”), free of charge and under any and all copyright rights in the Software, and any and all patent rights owned or freely licensable by each licensor hereunder covering either (i) the unmodified Software as contributed to or provided by such licensor, or (ii) the Larger Works (as defined below), to deal in both (a) the Software, and (b) any piece of software and/or hardware listed in the lrgrwrks.txt file if one is included with the Software (each a “Larger Work” to which the Software is contributed by such licensors), without restriction, including without limitation the rights to copy, create derivative works of, display, perform, and distribute the Software and make, use, sell, offer for sale, import, export, have made, and have sold the Software and the Larger Work(s), and to sublicense the foregoing rights on either these or other terms.

This license is subject to the following condition:

The above copyright notice and either this complete permission notice or at a minimum a reference to the UPL must be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

---------------------------------------------------------------------------
----
List of third party code and license attributions:

<table>
<thead>
<tr>
<th>THIRD-PARTY COMPONENT FILE</th>
<th>LICENSE</th>
</tr>
</thead>
<tbody>
<tr>
<td>(path in the installation)</td>
<td>(see license text reproduced below)</td>
</tr>
</tbody>
</table>
---------------------------------------------------------------------------
----

js/libs/knockout/knockout-3.4.0.js                        MIT 3.4.0
js/libs/knockout/knockout-mapping-latest.js               MIT 2.4.1
js/libs/require/require.js                                MIT 2.3.2
js/libs/require/text.js                                   MIT 2.0.15
js/libs/js-signals/signals.js                             MIT 1.0.0
js/libs/jquery/jquery-3.1.1.js                            MIT 3.1.1
js/libs/jquery/jquery-ui-1.12.0.custom.js                 MIT 1.12.0
js/libs/jquery/jqueryui-amd-1.12.0/core.js                MIT 1.12.0
js/libs/jquery/jqueryui-amd-1.12.0/draggable.js           MIT 1.12.0
js/libs/jquery/jqueryui-amd-1.12.0/mouse.js               MIT 1.12.0
js/libs/jquery/jqueryui-amd-1.12.0/position.js            MIT 1.12.0
js/libs/jquery/jqueryui-amd-1.12.0 sortable.js            MIT 1.12.0
js/libs/jquery/jqueryui-amd-1.12.0/widget.js              MIT 1.12.0
js/libs/history/history.iegte8.js                         MIT 4.1.0
js/libs/es6-promise/es6-promise.js                        MIT 4.0.5
js/libs/crossroads/crossroads.js                          MIT 0.12.0
js/libs/oj/v3.1.0/min/ojselectcombobox.js (Select2.js)    Apache 2.1.0
js/libs/oj/v3.1.0/min/ojtree.js (jsTree.js)               MIT 1.0
js/libs/oj/v3.1.0/ojL10n.js (requireJS i18n)              MIT 2.0.2
js/libs/hammer/hammer-2.0.8.js                            MIT 2.0.8
js/libs/require-css/css.js (require-css)                  MIT 0.1.8
js/libs/proj4js/dist/proj4.js                             Proj4js 2.3.14
The MIT License (MIT) - http://www.opensource.org/licenses/mit-license.php

Copyright (c) Steven Sanderson, the Knockout.js team, and other contributors

http://knockoutjs.com/

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The MIT License (MIT) - http://www.opensource.org/licenses/mit-license.php

Copyright (c) Steven Sanderson, Roy Jacobs

http://knockoutjs.com/documentation/plugins-mapping.html

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The MIT License (MIT) - http://www.opensource.org/licenses/mit-license.php

Copyright (c) Steven Sanderson, Roy Jacobs

http://knockoutjs.com/documentation/plugins-mapping.html

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

== knockout-amd-helpers 0.7.3 ==
The MIT License (MIT)

Copyright (c) 2015 Ryan Niemeyer

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the “Software”), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED “AS IS”, WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

=== Normalize.css ===

Copyright (c) Nicolas Gallagher and Jonathan Neal

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the “Software”), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED “AS IS”, WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

=== Foundation Responsive Library ===

Copyright (c) 2013-2015 ZURB, inc.

MIT License

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the “Software”), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

=== RequireJS i18n 2.0.2 ===

MIT License

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

Copyright (c) 2010-2011, The Dojo Foundation

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

=== jsTree 1.0-rc3 ===

Copyright (c) 2014 Ivan Bozhanov

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

=== Select2.js ===

Copyright 2012 Igor Vaynberg

This software is licensed under the Apache License, Version 2.0 (the "Apache License") or the GNU General Public License version 2 (the "GPL License"). You may choose either license to govern your use of this software only upon the condition that you accept all of the terms of either the Apache License or the GPL License.

You may obtain a copy of the Apache License and the GPL License at:

http://www.apache.org/licenses/LICENSE-2.0
http://www.gnu.org/licenses/gpl-2.0.html

Unless required by applicable law or agreed to in writing, software distributed under the Apache License or the GPL License is distributed on an “AS IS” BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the Apache License and the GPL License for the specific language governing permissions and limitations under the Apache License and the GPL License.

=== ES6-Promise v1.0.0 ===

Copyright (c) 2014 Yehuda Katz, Tom Dale, Stefan Penner and contributors

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the “Software”), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED “AS IS”, WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

=== History API JavaScript Library v4.1.0 ===

MIT License (MIT)

Copyright (c) 2010-2014 Dmitrii Pakhtinov

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the “Software”), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

=== jQuery UI - v1.11.4 ===

Includes: core.js, widget.js, mouse.js, position.js, draggable.js, sortable.js

Copyright jQuery Foundation and other contributors, https://jquery.org/

This software consists of voluntary contributions made by many individuals. For exact contribution history, see the revision history available at https://github.com/jquery/jquery-ui

The following license applies to all parts of this software except as documented below:

====

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

=== jQuery JavaScript Library v2.1.3 ===

Copyright jQuery Foundation and other contributors, https://jquery.org/

This software consists of voluntary contributions made by many individuals. For exact contribution history, see the revision history available at https://github.com/jquery/jquery

The following license applies to all parts of this software except as documented below:

====

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify,
merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

=== ES6-Promise v1.0.0 ===

Copyright (c) 2012 Miller Medeiros

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

=== RequireJS text 2.0.12 ===

MIT License

Copyright (c) 2010-2014, The Dojo Foundation

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

== RequireJS 2.1.16 ==

MIT License

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

Copyright (c) 2010-2015, The Dojo Foundation

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the “Software”), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

/*! Hammer.JS - v2.0.4 - 2014-09-28
 * http://hammerjs.github.io/
 * Copyright (c) 2014 Jorik Tangelder;
 * Licensed under the MIT license */

This product is licensed under the Apache 2.0 license agreement. See The Apache Software License, Version 2.0.

A.12 Kerberos 1.15 License

Copyright (C) 1985-2015 by the Massachusetts Institute of Technology.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Down this software may constitute an export of cryptographic software from the United States of America that is subject to the United States Export Administration Regulations (EAR), 15 CFR 730-774. Additional laws or regulations may apply. It is the responsibility of the person or entity contemplating export to comply with all applicable export laws and regulations, including obtaining any required license from the U.S. government.

The U.S. government prohibits export of encryption source code to certain countries and individuals, including, but not limited to, the countries of Cuba, Iran, North Korea, Sudan, Syria, and residents and nationals of those countries.

Documentation components of this software distribution are licensed under a Creative Commons Attribution-ShareAlike 3.0 Unported License. (http://creativecommons.org/licenses/by-sa/3.0/)

Individual source code files are copyright MIT, Cygnus Support, Novell, OpenVision Technologies, Oracle, Red Hat, Sun Microsystems, FundsXpress, and others.

Project Athena, Athena, Athena MUSE, Discuss, Hesiod, Kerberos, Moira, and Zephyr are trademarks of the Massachusetts Institute of Technology (MIT). No commercial use of these trademarks may be made without prior written permission of MIT.

"Commercial use" means use of a name in a product or other for-profit manner. It does NOT prevent a commercial firm from referring to the MIT trademarks in order to convey information (although in doing so, recognition of their trademark status should be given).

The following copyright and permission notice applies to the OpenVision Kerberos Administration system located in kadmin/create, kadmin/dbutil, kadmin/passwd, kadmin/server, lib/kadm5, and portions of lib/rpc:


WARNING: Retrieving the OpenVision Kerberos Administration system source code, as described below, indicates your acceptance of the following terms. If you do not agree to the following terms, do not retrieve the OpenVision Kerberos administration system.

You may freely use and distribute the Source Code and Object Code compiled from it, with or without modification, but this Source Code is provided to you "AS IS" EXCLUSIVE OF ANY WARRANTY, INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, OR ANY OTHER WARRANTY, WHETHER EXPRESS OR IMPLIED. IN NO EVENT WILL OPENVISION HAVE ANY LIABILITY FOR ANY LOST PROFITS,
LOSS OF DATA OR COSTS OF PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES, OR FOR ANY SPECIAL, INDIRECT, OR CONSEQUENTIAL DAMAGES ARISING OUT OF THIS AGREEMENT, INCLUDING, WITHOUT LIMITATION, THOSE RESULTING FROM THE USE OF THE SOURCE CODE, OR THE FAILURE OF THE SOURCE CODE TO PERFORM, OR FOR ANY OTHER REASON.

OpenVision retains all copyrights in the donated Source Code. OpenVision also retains copyright to derivative works of the Source Code, whether created by OpenVision or by a third party. The OpenVision copyright notice must be preserved if derivative works are made based on the donated Source Code.

OpenVision Technologies, Inc. has donated this Kerberos Administration system to MIT for inclusion in the standard Kerberos 5 distribution. This donation underscores our commitment to continuing Kerberos technology development and our gratitude for the valuable work which has been performed by MIT and the Kerberos community.

Portions contributed by Matt Crawford crawdad@fnal.gov were work performed at Fermi National Accelerator Laboratory, which is operated by Universities Research Association, Inc., under contract DE-AC02-76CHO3000 with the U.S. Department of Energy.

Portions of src/lib/crypto have the following copyright:

Copyright (C) 1998 by the FundsXpress, INC.

All rights reserved.

Export of this software from the United States of America may require a specific license from the United States Government. It is the responsibility of any person or organization contemplating export to obtain such a license before exporting.

WITHIN THAT CONSTRAINT, permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of FundsXpress. not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission. FundsXpress makes no representations about the suitability of this software for any purpose. It is provided "as is" without express or implied warranty.

THIS SOFTWARE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

The implementation of the AES encryption algorithm in src/lib/crypto/builtin/aes has the following copyright:

Copyright © 2001, Dr Brian Gladman brg@gladman.uk.net, Worcester, UK.

All rights reserved.

LICENSE TERMS

The free distribution and use of this software in both source and binary form is allowed (with or without changes) provided that:

• distributions of this source code include the above copyright notice, this list of conditions and the following disclaimer;
• distributions in binary form include the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other associated materials;

• the copyright holder’s name is not used to endorse products built using this software without specific written permission.

DISCLAIMER

This software is provided ‘as is’ with no explicit or implied warranties in respect of any properties, including, but not limited to, correctness and fitness for purpose.

Portions contributed by Red Hat, including the pre-authentication plug-in framework and the NSS crypto implementation, contain the following copyright:

Copyright © 2006 Red Hat, Inc.

Portions copyright © 2006 Massachusetts Institute of Technology

All Rights Reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

• Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

• Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

• Neither the name of Red Hat, Inc., nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The bundled verto source code is subject to the following license:

Copyright 2011 Red Hat, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The MS-KKDCP client implementation has the following copyright:

Copyright 2013,2014 Red Hat, Inc.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

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

- lib/gssapi/generic/gssapi_err_generic.et
- lib/gssapi/mechglue/g_accept_sec_context.c
- lib/gssapi/mechglue/g_acquire_cred.c
- lib/gssapi/mechglue/g_canon_name.c
- lib/gssapi/mechglue/g_compare_name.c
- lib/gssapi/mechglue/g_context_time.c
- lib/gssapi/mechglue/g_delete_sec_context.c
- lib/gssapi/mechglue/g_dsp_name.c
- lib/gssapi/mechglue/g_dsp_status.c
- lib/gssapi/mechglue/g_dup_name.c
- lib/gssapi/mechglue/g_exp_sec_context.c
- lib/gssapi/mechglue/g_export_name.c
- lib/gssapi/mechglue/g_glue.c
- lib/gssapi/mechglue/g_imp_name.c
and the initial implementation of incremental propagation, including the following new or changed files:

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

are subject to the following license:

Copyright © 2004 Sun Microsystems, Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE...
AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

Kerberos V5 includes documentation and software developed at the University of
California at Berkeley, which includes this copyright notice:

Copyright © 1983 Regents of the University of California.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are
permitted provided that the following conditions are met:

• Redistributions of source code must retain the above copyright notice, this list of
  conditions and the following disclaimer.
• Redistributions in binary form must reproduce the above copyright notice, this
  list of conditions and the following disclaimer in the documentation and/or other
  materials provided with the distribution.
• Neither the name of the University nor the names of its contributors may be used
to endorse or promote products derived from this software without specific prior
written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS "AS IS"
AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS
OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
 CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN
ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

Portions contributed by Novell, Inc., including the LDAP database backend, are
subject to the following license:

Copyright © 2004-2005, Novell, Inc.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are
permitted provided that the following conditions are met:

• Redistributions of source code must retain the above copyright notice, this list of
  conditions and the following disclaimer.
• Redistributions in binary form must reproduce the above copyright notice, this
  list of conditions and the following disclaimer in the documentation and/or other
  materials provided with the distribution.
• The copyright holder's name is not used to endorse or promote products derived
  from this software without specific prior written permission.
THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Portions funded by Sandia National Laboratory and developed by the University of Michigan's Center for Information Technology Integration, including the PKINIT implementation, are subject to the following license:

COPYRIGHT © 2006-2007

THE REGENTS OF THE UNIVERSITY OF MICHIGAN

ALL RIGHTS RESERVED

Permission is granted to use, copy, create derivative works and redistribute this software and such derivative works for any purpose, so long as the name of The University of Michigan is not used in any advertising or publicity pertaining to the use of distribution of this software without specific, written prior authorization. If the above copyright notice or any other identification of the University of Michigan is included in any copy of any portion of this software, then the disclaimer below must also be included.

THIS SOFTWARE IS PROVIDED AS IS, WITHOUT REPRESENTATION FROM THE UNIVERSITY OF MICHIGAN AS TO ITS FITNESS FOR ANY PURPOSE, AND WITHOUT WARRANTY BY THE UNIVERSITY OF MICHIGAN OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE REGENTS OF THE UNIVERSITY OF MICHIGAN SHALL NOT BE LIABLE FOR ANY DAMAGES, INCLUDING SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, WITH RESPECT TO ANY CLAIM ARISING OUT OF OR IN CONNECTION WITH THE USE OF THE SOFTWARE, EVEN IF IT HAS BEEN OR IS HEREAFTER ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

The pkcs11.h file included in the PKINIT code has the following license:

Copyright 2006 g10 Code GmbH

Copyright 2006 Andreas Jellinghaus

This file is free software; as a special exception the author gives unlimited permission to copy and/or distribute it, with or without modifications, as long as this notice is preserved.

This file is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY, to the extent permitted by law; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

Portions contributed by Apple Inc. are subject to the following license:

COPYRIGHT © 2006-2007

THE REGENTS OF THE UNIVERSITY OF MICHIGAN

ALL RIGHTS RESERVED

Permission is granted to use, copy, create derivative works and redistribute this software and such derivative works for any purpose, so long as the name of The University of Michigan is not used in any advertising or publicity pertaining to the use of distribution of this software without specific, written prior authorization. If the above copyright notice or any other identification of the University of Michigan is included in any copy of any portion of this software, then the disclaimer below must also be included.

THIS SOFTWARE IS PROVIDED AS IS, WITHOUT REPRESENTATION FROM THE UNIVERSITY OF MICHIGAN AS TO ITS FITNESS FOR ANY PURPOSE, AND WITHOUT WARRANTY BY THE UNIVERSITY OF MICHIGAN OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE REGENTS OF THE UNIVERSITY OF MICHIGAN SHALL NOT BE LIABLE FOR ANY DAMAGES, INCLUDING SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, WITH RESPECT TO ANY CLAIM ARISING OUT OF OR IN CONNECTION WITH THE USE OF THE SOFTWARE, EVEN IF IT HAS BEEN OR IS HEREAFTER ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

The pkcs11.h file included in the PKINIT code has the following license:

Copyright 2006 g10 Code GmbH

Copyright 2006 Andreas Jellinghaus

This file is free software; as a special exception the author gives unlimited permission to copy and/or distribute it, with or without modifications, as long as this notice is preserved.

This file is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY, to the extent permitted by law; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

Portions contributed by Apple Inc. are subject to the following license:
Copyright 2004-2008 Apple Inc. All Rights Reserved.

Export of this software from the United States of America may require a specific license from the United States Government. It is the responsibility of any person or organization contemplating export to obtain such a license before exporting.

WITHIN THAT CONSTRAINT, permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of Apple Inc. not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission. Apple Inc. makes no representations about the suitability of this software for any purpose. It is provided "as is" without express or implied warranty.

THIS SOFTWARE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

The implementations of UTF-8 string handling in src/util/support and src/lib/krb5/unicode are subject to the following copyright and permission notice:

The OpenLDAP Public License

Version 2.8, 17 August 2003

Redistribution and use of this software and associated documentation ("Software"), with or without modification, are permitted provided that the following conditions are met:

• Redistributions in source form must retain copyright statements and notices,
• Redistributions in binary form must reproduce applicable copyright statements and notices, this list of conditions, and the following disclaimer in the documentation and/or other materials provided with the distribution, and
• Redistributions must contain a verbatim copy of this document.

The OpenLDAP Foundation may revise this license from time to time. Each revision is distinguished by a version number. You may use this Software under terms of this license revision or under the terms of any subsequent revision of the license.

THIS SOFTWARE IS PROVIDED BY THE OPENLDAP FOUNDATION AND ITS CONTRIBUTORS "AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE OPENLDAP FOUNDATION, ITS CONTRIBUTORS, OR THE AUTHOR(S) OR OWNER(S) OF THE SOFTWARE BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The names of the authors and copyright holders must not be used in advertising or otherwise to promote the sale, use or other dealing in this Software without specific,
written prior permission. Title to copyright in this Software shall at all times remain with copyright holders.

OpenLDAP is a registered trademark of the OpenLDAP Foundation.

Copyright 1999-2003 The OpenLDAP Foundation, Redwood City, California, USA. All Rights Reserved. Permission to copy and distribute verbatim copies of this document is granted.

Marked test programs in src/lib/krb5/krb have the following copyright:

Copyright © 2006 Kungliga Tekniska Högskola

(Royal Institute of Technology, Stockholm, Sweden).

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

• Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
• Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
• Neither the name of KTH nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY KTH AND ITS CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL KTH OR ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The KCM Mach RPC definition file used on OS X has the following copyright:

Copyright © 2009 Kungliga Tekniska Högskola

(Royal Institute of Technology, Stockholm, Sweden).

All rights reserved.

Portions Copyright © 2009 Apple Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

• Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
• Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

• Neither the name of the Institute nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE INSTITUTE AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE INSTITUTE OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Portions of the RPC implementation in src/lib/rpc and src/include/gssrpc have the following copyright and permission notice:

Copyright © 2010, Oracle America, Inc.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

• Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

• Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

• Neither the name of the "Oracle America, Inc." nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright © 2006, 2007, 2009 NTT (Nippon Telegraph and Telephone Corporation). All rights reserved.
Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer as the first lines of this file unmodified.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY NTT “AS IS” AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL NTT BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright 2000 by Carnegie Mellon University

All Rights Reserved

Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of Carnegie Mellon University not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission.

CARNEGIE MELLON UNIVERSITY DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL CARNEGIE MELLON UNIVERSITY BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Copyright © 2002 Naval Research Laboratory (NRL/CCS)

Permission to use, copy, modify and distribute this software and its documentation is hereby granted, provided that both the copyright notice and this permission notice appear in all copies of the software, derivative works or modified versions, and any portions thereof.

NRL ALLOWS FREE USE OF THIS SOFTWARE IN ITS “AS IS” CONDITION AND DISCLAIMS ANY LIABILITY OF ANY KIND FOR ANY DAMAGES WHATSOEVER RESULTING FROM THE USE OF THIS SOFTWARE.

Portions extracted from Internet RFCs have the following copyright notice:

Copyright © The Internet Society (2006).

This document is subject to the rights, licenses and restrictions contained in BCP 78, and except as set forth therein, the authors retain all their rights.
This document and the information contained herein are provided on an “AS IS” basis and THE CONTRIBUTOR, THE ORGANIZATION HE/SHE REPRESENTS OR IS SPONSORED BY (IF ANY), THE INTERNET SOCIETY AND THE INTERNET ENGINEERING TASK FORCE DISCLAIM ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY WARRANTY THAT THE USE OF THE INFORMATION HEREIN WILL NOT INFRINGE ANY RIGHTS OR ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.


Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation. Cygnus Support makes no representations about the suitability of this software for any purpose. It is provided “as is” without express or implied warranty.

Copyright © 2006 Secure Endpoints Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Portions of the implementation of the Fortuna-like PRNG are subject to the following notice:

Copyright © 2005 Marko Kreen

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR
OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright © 1994 by the University of Southern California

EXPORT OF THIS SOFTWARE from the United States of America may require a specific license from the United States Government. It is the responsibility of any person or organization contemplating export to obtain such a license before exporting.

WITHIN THAT CONSTRAINT, permission to copy, modify, and distribute this software and its documentation in source and binary forms is hereby granted, provided that any documentation or other materials related to such distribution or use acknowledge that the software was developed by the University of Southern California.

DISCLAIMER OF WARRANTY. THIS SOFTWARE IS PROVIDED "AS IS". The University of Southern California MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. By way of example, but not limitation, the University of Southern California MAKES NO REPRESENTATIONS OR WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE. The University of Southern California shall not be held liable for any liability nor for any direct, indirect, or consequential damages with respect to any claim by the user or distributor of the ksu software.

Copyright © 1995

The President and Fellows of Harvard University

This code is derived from software contributed to Harvard by Jeremy Rassen.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

All advertising materials mentioning features or use of this software must display the following acknowledgement:

This product includes software developed by the University of California, Berkeley and its contributors.

Neither the name of the University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright © 2008 by the Massachusetts Institute of Technology.

Copyright 1995 by Richard P. Basch. All Rights Reserved.

Copyright 1995 by Lehman Brothers, Inc. All Rights Reserved.

Export of this software from the United States of America may require a specific license from the United States Government. It is the responsibility of any person or organization contemplating export to obtain such a license before exporting.

WITHIN THAT CONSTRAINT, permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of Richard P. Basch, Lehman Brothers and M.I.T. not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission. Richard P. Basch, Lehman Brothers and M.I.T. make no representations about the suitability of this software for any purpose. It is provided "as is" without express or implied warranty.

The following notice applies to src/lib/krb5/krb/strptime.c and src/include/k5-queue.h.

Copyright © 1997, 1998 The NetBSD Foundation, Inc.

All rights reserved.

This code was contributed to The NetBSD Foundation by Klaus Klein.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

All advertising materials mentioning features or use of this software must display the following acknowledgement:

This product includes software developed by the NetBSD Foundation, Inc. and its contributors.

Neither the name of The NetBSD Foundation nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE NETBSD FOUNDATION, INC. AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE FOUNDATION OR CONTRIBUTORS
BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY,
OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA,
OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

The following notice applies to Unicode library files in src/lib/krb5/unicode:

Copyright 1997, 1998, 1999 Computing Research Labs,
New Mexico State University

Permission is hereby granted, free of charge, to any person obtaining a copy of
this software and associated documentation files (the “Software”), to deal in the
Software without restriction, including without limitation the rights to use, copy, modify,
merge, publish, distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice shall be included in all copies or
substantial portions of the Software.

THE SOFTWARE IS PROVIDED “AS IS”, WITHOUT WARRANTY OF ANY
KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE
AND NONINFRINGEMENT. IN NO EVENT SHALL THE COMPUTING RESEARCH
LAB OR NEW MEXICO STATE UNIVERSITY BE LIABLE FOR ANY CLAIM,
DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The following notice applies to src/util/support/strlcpy.c:

Copyright © 1998 Todd C. Miller Todd.Miller@courtesan.com

Permission to use, copy, modify, and distribute this software for any purpose with
or without fee is hereby granted, provided that the above copyright notice and this
permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS
ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT
SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR
CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING
FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF
CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR
IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

The following notice applies to src/util/profile/argv_parse.c and src/util/profile/
argv_parse.h:

Copyright 1999 by Theodore Ts'o.

Permission to use, copy, modify, and distribute this software for any purpose with
or without fee is hereby granted, provided that the above copyright notice and
this permission notice appear in all copies. THE SOFTWARE IS PROVIDED "AS
IS" AND THEODORE TS'O (THE AUTHOR) DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE. (Isn’t it sick that the U.S. culture of lawsuit-happy lawyers requires this kind of disclaimer?)

The following notice applies to SWIG-generated code in src/util/profile/profile_tcl.c:

Copyright © 1999-2000, The University of Chicago

This file may be freely redistributed without license or fee provided this copyright message remains intact.

The following notice applies to portions of src/lib/rpc and src/include/gssrpc:

Copyright © 2000 The Regents of the University of Michigan. All rights reserved.

Copyright © 2000 Dug Song dugsong@UMICH.EDU. All rights reserved, all wrongs reversed.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

• Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
• Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
• Neither the name of the University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Implementations of the MD4 algorithm are subject to the following notice:

Copyright © 1990, RSA Data Security, Inc. All rights reserved.

License to copy and use this software is granted provided that it is identified as the "RSA Data Security, Inc. MD4 Message Digest Algorithm" in all material mentioning or referencing this software or this function.
License is also granted to make and use derivative works provided that such works are identified as "derived from the RSA Data Security, Inc. MD4 Message Digest Algorithm" in all material mentioning or referencing the derived work.

RSA Data Security, Inc. makes no representations concerning either the merchantability of this software or the suitability of this software for any particular purpose. It is provided "as is" without express or implied warranty of any kind.

These notices must be retained in any copies of any part of this documentation and/or software.

Implementations of the MD5 algorithm are subject to the following notice:

Copyright © 1990, RSA Data Security, Inc. All rights reserved.

License to copy and use this software is granted provided that it is identified as the "RSA Data Security, Inc. MD5 Message- Digest Algorithm" in all material mentioning or referencing this software or this function.

License is also granted to make and use derivative works provided that such works are identified as "derived from the RSA Data Security, Inc. MD5 Message-Digest Algorithm" in all material mentioning or referencing the derived work.

RSA Data Security, Inc. makes no representations concerning either the merchantability of this software or the suitability of this software for any particular purpose. It is provided "as is" without express or implied warranty of any kind.

These notices must be retained in any copies of any part of this documentation and/or software.

The following notice applies to src/lib/crypto/crypto_tests/t_mddriver.c:

Copyright © 1990-2, RSA Data Security, Inc. Created 1990. All rights reserved.

RSA Data Security, Inc. makes no representations concerning either the merchantability of this software or the suitability of this software for any particular purpose. It is provided "as is" without express or implied warranty of any kind.

These notices must be retained in any copies of any part of this documentation and/or software.

Portions of src/lib/krb5 are subject to the following notice:

Copyright © 1994 CyberSAFE Corporation.


All Rights Reserved.

Export of this software from the United States of America may require a specific license from the United States Government. It is the responsibility of any person or organization contemplating export to obtain such a license before exporting.

WITHIN THAT CONSTRAINT, permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of M.I.T. not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission. Furthermore if you modify this software you must label your software as modified software and not distribute it in such a fashion that it might be confused with the original M.I.T. software. Neither
M.I.T., the Open Computing Security Group, nor CyberSAFE Corporation make any representations about the suitability of this software for any purpose. It is provided “as is” without express or implied warranty.

Portions contributed by PADL Software are subject to the following license:

Copyright (c) 2011, PADL Software Pty Ltd. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- Neither the name of PADL Software nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY PADL SOFTWARE AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL PADL SOFTWARE OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The bundled libev source code is subject to the following license:

All files in libev are Copyright (C)2007,2008,2009 Marc Alexander Lehmann.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN
ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

Alternatively, the contents of this package may be used under the terms of the GNU
General Public License ("GPL") version 2 or any later version, in which case the
provisions of the GPL are applicable instead of the above. If you wish to allow the
use of your version of this package only under the terms of the GPL and not to allow
others to use your version of this file under the BSD license, indicate your decision by
deleting the provisions above and replace them with the notice and other provisions
required by the GPL in this and the other files of this package. If you do not delete the
provisions above, a recipient may use your version of this file under either the BSD or
the GPL.

Files copied from the Intel AESNI Sample Library are subject to the following license:

Copyright © 2010, Intel Corporation All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are
permitted provided that the following conditions are met:

• Redistributions of source code must retain the above copyright notice, this list of
  conditions and the following disclaimer.

• Redistributions in binary form must reproduce the above copyright notice, this
  list of conditions and the following disclaimer in the documentation and/or other
  materials provided with the distribution.

• Neither the name of Intel Corporation nor the names of its contributors may be
  used to endorse or promote products derived from this software without specific
  prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND
CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES,
INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES;
LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER
CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN
ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

A.13 Perl 5.22.0 License

This program contains third-party code licensed under the Artistic license, the terms of
which require Oracle to provide the following notices. Note, however, that the Oracle
program license that accompanied this product determines your right to use the Oracle
program, including the (xxx) software, and the terms contained in the following notices
do not change those rights.

In accordance with the terms of the Perl licensing scheme, Oracle is hereby making
the election to license (XXX) software under the Artistic License.

Source code for the (XXX) software may be obtained at the following sites:
This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

The "Artistic License"

Preamble

The intent of this document is to state the conditions under which a Package may be copied, such that the Copyright Holder maintains some semblance of artistic control over the development of the package, while giving the users of the package the right to use and distribute the Package in a more-or-less customary fashion, plus the right to make reasonable modifications.

Definitions:

"Package" refers to the collection of files distributed by the Copyright Holder, and derivatives of that collection of files created through textual modification.

"Standard Version" refers to such a Package if it has not been modified, or has been modified in accordance with the wishes of the Copyright Holder as specified below.

"Copyright Holder" is whoever is named in the copyright or copyrights for the package.

"You" is you, if you're thinking about copying or distributing this Package.

"Reasonable copying fee" is whatever you can justify on the basis of media cost, duplication charges, time of people involved, and so on. (You will not be required to justify it to the Copyright Holder, but only to the computing community at large as a market that must bear the fee.)

"Freely Available" means that no fee is charged for the item itself, though there may be fees involved in handling the item. It also means that recipients of the item may redistribute it under the same conditions they received it.

1. You may make and give away verbatim copies of the source form of the Standard Version of this Package without restriction, provided that you duplicate all of the original copyright notices and associated disclaimers.

2. You may apply bug fixes, portability fixes and other modifications derived from the Public Domain or from the Copyright Holder. A Package modified in such a way shall still be considered the Standard Version.

3. You may otherwise modify your copy of this Package in any way, provided that you insert a prominent notice in each changed file stating how and when you changed that file, and provided that you do at least ONE of the following:

   a. place your modifications in the Public Domain or otherwise make them Freely Available, such as by posting said modifications to Usenet or an equivalent medium, or placing the modifications on a major archive site such as uunet.uu.net, or by allowing the Copyright Holder to include your modifications in the Standard Version of the Package.

   b. use the modified Package only within your corporation or organization.

   c. rename any non-standard executables so the names do not conflict with standard executables, which must also be provided, and provide a separate manual page for each non-standard executable that clearly documents how it differs from the Standard Version.

   d. make other distribution arrangements with the Copyright Holder.
4. You may distribute the programs of this Package in object code or executable form, provided that you do at least ONE of the following:
   a. distribute a Standard Version of the executables and library files, together with instructions (in the manual page or equivalent) on where to get the Standard Version.
   b. accompany the distribution with the machine-readable source of the Package with your modifications.
   c. give non-standard executables non-standard names, and clearly document the differences in manual pages (or equivalent), together with instructions on where to get the Standard Version.
   d. make other distribution arrangements with the Copyright Holder.

5. You may charge a reasonable copying fee for any distribution of this Package. You may charge any fee you choose for support of this Package. You may not charge a fee for this Package itself. However, you may distribute this Package in aggregate with other (possibly commercial) programs as part of a larger (possibly commercial) software distribution provided that you do not advertise this Package as a product of your own. You may embed this Package's interpreter within an executable of yours (by linking); this shall be construed as a mere form of aggregation, provided that the complete Standard Version of the interpreter is so embedded.

6. The scripts and library files supplied as input to or produced as output from the programs of this Package do not automatically fall under the copyright of this Package, but belong to whoever generated them, and may be sold commercially, and may be aggregated with this Package. If such scripts or library files are aggregated with this Package via the so-called “undump” or “unexec” methods of producing a binary executable image, then distribution of such an image shall neither be construed as a distribution of this Package nor shall it fall under the restrictions of Paragraphs 3 and 4, provided that you do not represent such an executable image as a Standard Version of this Package.

7. C subroutines (or comparably compiled subroutines in other languages) supplied by you and linked into this Package in order to emulate subroutines and variables of the language defined by this Package shall not be considered part of this Package, but are the equivalent of input as in Paragraph 6, provided these subroutines do not change the language in any way that would cause it to fail the regression tests for the language.

8. Aggregation of this Package with a commercial distribution is always permitted provided that the use of this Package is embedded; that is, when no overt attempt is made to make this Package's interfaces visible to the end user of the commercial distribution. Such use shall not be construed as a distribution of this Package.

9. The name of the Copyright Holder may not be used to endorse or promote products derived from this software without specific prior written permission.

10. THIS PACKAGE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

The End
A.14 Protocol Buffers (aka Google protobuf) 3.5.1 License

Here is the content of the LICENSE file in protobuf-java-3.5.1.zip downloaded from https://github.com/google/protobuf/releases/tag/v3.5.1.

This license applies to all parts of Protocol Buffers except the following:

- Atomicops support for generic gcc, located in src/google/protobuf/stubs/atomicops_internals_generic_gcc.h. This file is copyrighted by Red Hat Inc.
- Atomicops support for AIX/POWER, located in src/google/protobuf/stubs/atomicops_internals_power.h. This file is copyrighted by Bloomberg Finance LP.

Copyright 2014, Google Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Code generated by the Protocol Buffer compiler is owned by the owner of the input file used when generating it. This code is not standalone and requires a support library to be linked with it. This support library is itself covered by the above license.

---

File: atomicops_internals_power.h

// Copyright 2014 Bloomberg Finance LP. All rights reserved.
//
// Redistribution and use in source and binary forms, with or without
// modification, are permitted provided that the following conditions
// are
// met:
// 
//     * Redistributions of source code must retain the above copyright
// notice, this list of conditions and the following disclaimer.
//     * Redistributions in binary form must reproduce the above
// copyright notice, this list of conditions and the following
// disclaimer
// in the documentation and/or other materials provided with the
// distribution.
//     * Neither the name of Bloomberg Finance LP. nor the names of its
// contributors may be used to endorse or promote products derived from
// this software without specific prior written permission.
// 
// THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
// "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
// LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
// A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
// OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
// SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
// LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
// DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
// THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
// (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
// OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

// This file is an internal atomic implementation, use atomicops.h
// instead.

---

File: atomicops_internals_generic_gcc.h

// Copyright 2013 Red Hat Inc. All rights reserved.
//
// Redistribution and use in source and binary forms, with or without
// modification, are permitted provided that the following conditions are
// met:
//
//     * Redistributions of source code must retain the above copyright
// notice, this list of conditions and the following disclaimer.
//     * Redistributions in binary form must reproduce the above
// copyright notice, this list of conditions and the following
// disclaimer
// in the documentation and/or other materials provided with the
// distribution.
//     * Neither the name of Red Hat Inc. nor the names of its
// contributors may be used to endorse or promote products derived from
// this software without specific prior written permission.
// 
// THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
// "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
// LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR
// A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT
// OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,
// SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
A.15 Python 2.7.14 License

B. TERMS AND CONDITIONS FOR ACCESSING OR OTHERWISE USING PYTHON

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

PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2
-----------------------------------------------------------------

1. This LICENSE AGREEMENT is between the Python Software Foundation ("PSF"), and the Individual or Organization ("Licensee") accessing and otherwise using this software ("Python") in source or binary form and its associated documentation.


3. In the event Licensee prepares a derivative work that is based on or incorporates Python or any part thereof, and wants to make the derivative work available to others as provided herein, then Licensee hereby agrees to include in any such work a brief summary of the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS" basis. PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between PSF and Licensee. This License Agreement does not grant permission to use PSF trademarks or trade name in a trademark sense to endorse or promote products or services of Licensee, or any third party.
8. By copying, installing or otherwise using Python, Licensee agrees to be bound by the terms and conditions of this License Agreement.

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

From the Doc/license.rst file:

Licenses and Acknowledgements for Incorporated Software

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

This section is an incomplete, but growing list of licenses and acknowledgements for third-party software incorporated in the Python distribution.

Mersenne Twister

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

The :mod:`random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code::

A C-program for MT19937, with initialization improved 2002/1/26.

Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed) or init_by_array(init_key, key_length).

Copyright (C) 1997 - 2002, Makoto Matsumoto and Takuji Nishimura,

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. The names of its contributors may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Any feedback is very welcome.
http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

Sockets

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


All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. Neither the name of the project nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE PROJECT AND CONTRIBUTORS "AS IS" AND GAI_ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE PROJECT OR CONTRIBUTORS BE LIABLE FOR GAI_ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON GAI_ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN GAI_ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Floating point exception control

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

The source for the :mod:`fpectl` module includes the following notice:

---------------------------------------------------------------------
/                     Copyright (c) 1996.                             \
|          The Regents of the University of California.             |
|                        All rights reserved.                       |
|                                                                       |
|   Permission to use, copy, modify, and distribute this software for |
|   any purpose without fee is hereby granted, provided that this en- |
|   tire notice is included in all copies of any software which is or |
|   includes a copy or modification of this software and in all      |
|   copies of the supporting documentation for such software.        |
|                                                                       |
|   This work was produced at the University of California, Lawrence |
---------------------------------------------------------------------
MD5 message digest algorithm

The source code for the :mod:`md5` module contains the following notice::

Copyright (C) 1999, 2002 Aladdin Enterprises. All rights reserved.

This software is provided 'as-is', without any express or implied warranty. In no event will the authors be held liable for any damages arising from the use of this software.

Permission is granted to anyone to use this software for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not claim that you wrote the original software. If you use this software in a product, an acknowledgment in the product documentation would be appreciated but is not required.

2. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.

3. This notice may not be removed or altered from any source distribution.

L. Peter Deutsch

ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at

http://www.ietf.org/rfc/rfc1321.txt

The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix
A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.

1999-11-04 lpd Edited comments slightly for automatic TOC extraction.

1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.

1999-05-03 lpd Original version.

Asynchronous socket services

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

The :mod:`asynchat` and :mod:`asyncore` modules contain the following notice:

Copyright 1996 by Sam Rushing

All Rights Reserved

Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of Sam Rushing not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission.

SAM RUSHING DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL SAM RUSHING BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Cookie management

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

The :mod:`Cookie` module contains the following notice:

Copyright 2000 by Timothy O'Malley <timo@alum.mit.edu>

All Rights Reserved

Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of Timothy O'Malley not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission.
Timothy O'Malley DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL Timothy O'Malley BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Execution tracing

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

The :mod:`trace` module contains the following notice::

portions copyright 2001, Autonomous Zones Industries, Inc., all rights reserved and offered to the public under the terms of the Python 2.2 license.

Author: Zooko O'Whielacronx

http://zooko.com/
mailto:zooko@zooko.com

Copyright 2000, Mojam Media, Inc., all rights reserved.

Author: Skip Montanaro

Copyright 1999, Bioreason, Inc., all rights reserved.

Author: Andrew Dalke

Copyright 1995-1997, Automatrix, Inc., all rights reserved.

Author: Skip Montanaro

Copyright 1991-1995, Stichting Mathematisch Centrum, all rights reserved.

Permission to use, copy, modify, and distribute this Python software and its associated documentation for any purpose without fee is hereby granted, provided that the above copyright notice appears in all copies, and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of neither Automatrix, Bioreason or Mojam Media be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission.

UUencode and UUdecode functions

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

The :mod:`uu` module contains the following notice::

Copyright 1994 by Lance Ellinghouse

Cathedral City, California Republic, United States of America.

All Rights Reserved

Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of Lance Ellinghouse
not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission.

LANCE ELLINGHOUSE DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL LANCE ELLINGHOUSE CENTRUM BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Modified by Jack Jansen, CWI, July 1995:

- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

XML Remote Procedure Calls

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

The :mod:`xmlrpclib` module contains the following notice:

The XML-RPC client interface is

Copyright (c) 1999-2002 by Secret Labs AB

Copyright (c) 1999-2002 by Fredrik Lundh

By obtaining, using, and/or copying this software and/or its associated documentation, you agree that you have read, understood, and will comply with the following terms and conditions:

Permission to use, copy, modify, and distribute this software and its associated documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appears in all copies, and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of Secret Labs AB or the author not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission.

SECRET LABS AB AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL SECRET LABS AB OR THE AUTHOR BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

test_epoll

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

The :mod:`test_epoll` contains the following notice:

Copyright (c) 2001-2006 Twisted Matrix Laboratories.
Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the “Software”), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Select kqueue

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

The :mod:`select` and contains the following notice for the kqueue interface::

Copyright (c) 2000 Doug White, 2006 James Knight, 2007 Christian Heimes
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

strtod and dtoa

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

The file :file:`Python/dtoa.c`, which supplies C functions dtoa and strtod for conversion of C doubles to and from strings, is derived from the file of the same name by David M. Gay, currently available from http://www.netlib.org/fp/. The original file, as retrieved on March 16, 2009, contains the following copyright and licensing notice::
The :mod:`pyexpat` extension is built using an included copy of the expat sources unless the build is configured `--with-system-expat`:

Copyright (c) 1998, 1999, 2000 Thai Open Source Software Center Ltd
and Clark Cooper

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

The :mod:`_ctypes` extension is built using an included copy of the libffi sources unless the build is configured `--with-system-libffi`:

Copyright (c) 1996-2008 Red Hat, Inc and others.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify,
merge, publish, distribute, sublicense, and/or sell copies of the Software, and to allow others to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

zlib
----

The `zlib` extension is built using an included copy of the zlib sources if the zlib version found on the system is too old to be used for the build:

Copyright (C) 1995-2010 Jean-loup Gailly and Mark Adler

This software is provided 'as-is', without any express or implied warranty. In no event will the authors be held liable for any damages arising from the use of this software.

Permission is granted to anyone to use this software for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not claim that you wrote the original software. If you use this software in a product, an acknowledgment in the product documentation would be appreciated but is not required.

2. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.

3. This notice may not be removed or altered from any source distribution.

Jean-loup Gailly   Mark Adler
jloup@gzip.org     madler@alumni.caltech.edu

Additional attribution text found in the source:

::::::::::::::
Lib/bsddb/__init__.py
::::::::::::::
# Copyright (c) 1999-2001, Digital Creations, Fredericksburg, VA, USA
# and Andrew Kuchling. All rights reserved.
#
# Redistribution and use in source and binary forms, with or without
# modification, are permitted provided that the following conditions are
# met:
# o Redistributions of source code must retain the above copyright
# notice, this list of conditions, and the disclaimer that follows.
#
Lib/compiler/transformer.py

# Original version written by Greg Stein (gstein@lyra.org)
# and Bill Tutt (rassilon@lima.mudlib.org)
# February 1997.
#
# Modifications and improvements for Python 2.0 by Jeremy Hylton and
# Mark Hammond
#
# Some fixes to try to have correct line number on almost all nodes
# (except Module, Discard and Stmt) added by Sylvain Thenault
#
# Portions of this file are:
# Copyright (C) 1997-1998 Greg Stein. All Rights Reserved.
# This module is provided under a BSD-ish license. See
# http://www.opensource.org/licenses/bsd-license.html
# and replace OWNER, ORGANIZATION, and YEAR as appropriate.

Lib/lib-tk/turtle.py

# Copyright (C) 2006 - 2010 Gregor Lingl
# email: glingl@aon.at
#
# This software is provided 'as-is', without any express or implied
# warranty. In no event will the authors be held liable for any damages
# arising from the use of this software.
#
# Permission is granted to anyone to use this software for any purpose,
# including commercial applications, and to alter it and redistribute it
# freely, subject to the following restrictions:
#
# 1. The origin of this software must not be misrepresented; you must not
# claim that you wrote the original software. If you use this software
# in a product, an acknowledgment in the product documentation would be
# appreciated but is not required.
# 2. Altered source versions must be plainly marked as such, and must not be
# misrepresented as being the original software.
# 3. This notice may not be removed or altered from any source distribution.
Lib/logging/__init__.py

# Copyright 2001-2009 by Vinay Sajip. All Rights Reserved.
#
# Permission to use, copy, modify, and distribute this software and its
# documentation for any purpose and without fee is hereby granted,
# provided that the above copyright notice appear in all copies and that
# both that copyright notice and this permission notice appear in
# supporting documentation, and that the name of Vinay Sajip
# not be used in advertising or publicity pertaining to distribution
# of the software without specific, written prior permission.
# VINAY SAJIP DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING
# ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL
# VINAY SAJIP BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR
# ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER
# IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
# OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Lib/multiprocessing/__init__.py

# Copyright (c) 2006-2008, R Oudkerk
# All rights reserved.
#
# Redistribution and use in source and binary forms, with or without
# modification, are permitted provided that the following conditions
# are met:
#
# 1. Redistributions of source code must retain the above copyright
#    notice, this list of conditions and the following disclaimer.
# 2. Redistributions in binary form must reproduce the above copyright
#    notice, this list of conditions and the following disclaimer in the
#    documentation and/or other materials provided with the distribution.
# 3. Neither the name of author nor the names of any contributors may be
#    used to endorse or promote products derived from this software
#    without specific prior written permission.
#
# THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS "AS IS" AND
# ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
# IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
# ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
# FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
# DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
# OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
# HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
# LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
# OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF

Lib/optparse.py

Copyright (c) 2001-2006 Gregory P. Ward. All rights reserved.
Copyright (c) 2002-2006 Python Software Foundation. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright
notice, this list of conditions and the following disclaimer in the
documentation and/or other materials provided with the distribution.

* Neither the name of the author nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS
IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
to, the IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR
CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,
EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGligence OR OTHERWise) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Lib/platform.py

Copyright (c) 1999-2000, Marc-Andre Lemburg; mailto:mal@lemburg.com
Copyright (c) 2000-2010, eGenix.com Software GmbH; mailto:info@egenix.com

Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee or royalty is hereby granted,
provided that the above copyright notice appear in all copies and that
both that copyright notice and this permission notice appear in
supporting documentation or portions thereof, including modifications,
that you make.

EGENIX.COM SOFTWARE GMBH DISCLAIMS ALL WARRANTIES WITH REGARD TO
THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS, IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL,
INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING
FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT,
NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION
WITH THE USE OR PERFORMANCE OF THIS SOFTWARE!

Lib/profile.py

# Copyright Disney Enterprises, Inc. All Rights Reserved.
# Licensed to PSF under a Contributor Agreement
# Licensed under the Apache License, Version 2.0 (the "License");
# you may not use this file except in compliance with the License.
# You may obtain a copy of the License at
# http://www.apache.org/licenses/LICENSE-2.0
#
# Unless required by applicable law or agreed to in writing, software
# distributed under the License is distributed on an "AS IS" BASIS,
# WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND,
# either express or implied. See the License for the specific language
# governing permissions and limitations under the License.

Lib/sqlite3/__init__.py

# Copyright (C) 2005 Gerhard Häring <gh@ghaering.de>
#
# This file is part of pysqlite.
# This software is provided 'as-is', without any express or implied
# warranty. In no event will the authors be held liable for any damages
# arising from the use of this software.
#
# Permission is granted to anyone to use this software for any purpose,
# including commercial applications, and to alter it and redistribute it
# freely, subject to the following restrictions:
#
# 1. The origin of this software must not be misrepresented; you must not
#    claim that you wrote the original software. If you use this software
#    in a product, an acknowledgment in the product documentation would be
#    appreciated but is not required.
# 2. Altered source versions must be plainly marked as such, and must not be
#    misrepresented as being the original software.
# 3. This notice may not be removed or altered from any source distribution.

Lib/tarfile.py

# Copyright (C) 2002 Lars Gustäbel <lars@gustaebel.de>
# All rights reserved.
#
# Permission is hereby granted, free of charge, to any person
# obtaining a copy of this software and associated documentation
# files (the "Software"), to deal in the Software without
# restriction, including without limitation the rights to use,
# copy, modify, merge, publish, distribute, sublicense, and/or sell
# copies of the Software, and to permit persons to whom the
# Software is furnished to do so, subject to the following
# conditions:
#
# The above copyright notice and this permission notice shall be
# included in all copies or substantial portions of the Software.
#
# THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
# EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
# OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
# NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
# HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
# WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
# FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
# OTHER DEALINGS IN THE SOFTWARE.

Lib/unittest.py

# Copyright (c) 1999-2003 Steve Purcell
# This module is free software, and you may redistribute it and/or modify
# it under the same terms as Python itself, so long as this copyright message
# and disclaimer are retained in their original form.
#
# IN NO EVENT SHALL THE AUTHOR BE LIABLE TO ANY PARTY FOR DIRECT, INDIRECT,
# SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OF
# THIS CODE, EVEN IF THE AUTHOR HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
# DAMAGE.
#
# THE AUTHOR SPECIFICALLY DISCLAIMS ANY WARRANTIES, INCLUDING, BUT NOT
# LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
# PARTICULAR PURPOSE. THE CODE PROVIDED HEREUNDER IS ON AN "AS IS" BASIS,
# AND THERE IS NO OBLIGATION WHATSOEVER TO PROVIDE MAINTENANCE,
# SUPPORT, UPDATES, ENHANCEMENTS, OR MODIFICATIONS.
Modules/localemodule.c

Copyright (C) 1997, 2002, 2003 Martin von Loewis

Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted,
provided that the above copyright notice appear in all copies.

This software comes with no warranty. Use at your own risk.

Modules/parsermodule.c

Copyright 1995-1996 by Fred L. Drake, Jr. and Virginia Polytechnic
Institute and State University, Blacksburg, Virginia, USA.
* Portions copyright 1991-1995 by Stichting Mathematisch Centrum,
* Amsterdam, The Netherlands. Copying is permitted under the terms
* associated with the main Python distribution, with the additional
* restriction that this additional notice be included and maintained
* on all distributed copies.

Modules/timing.h

Copyright (c) 1993 George V. Neville-Neil
* All rights reserved.
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
* 3. The name, George Neville-Neil may not be used to endorse or promote
*    products derived from this software without specific prior
*    written permission.
*    This software is provided by the author "AS IS" and any express or
*    implied warranties, including, but not limited to, the
*    implied warranties of merchantability and fitness for a particular purpose
*    are disclaimed. In no event shall the author be liable
*    for any direct, indirect, incidental, special, exemplary, or consequential
*    damages (including, but not limited to, procurement of substitute goods
*    or services; loss of use, data, or profits; or business interruption)
*    however caused and on any theory of liability, whether in contract, strict
*    liability, or tort (including negligence or otherwise) arising in any way
*    out of the use of this software, even if advised of the possibility of
*    such damage.
*/

Parser/spark.py

Copyright (c) 1998-2002 John Aycock
# Permission is hereby granted, free of charge, to any person obtaining
# a copy of this software and associated documentation files (the
# "Software"), to deal in the Software without restriction, including
# without limitation the rights to use, copy, modify, merge, publish,
# distribute, sublicense, and/or sell copies of the Software, and to
# permit persons to whom the Software is furnished to do so, subject to
# the following conditions:
#
# The above copyright notice and this permission notice shall be
# included in all copies or substantial portions of the Software.
#
# THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
# EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
# MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
# IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
# CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
# TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
# SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Python/getopt.c

* Copyright 1992-1994, David Gottner
* All Rights Reserved
*
* Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted,
provided that the above copyright notice, this permission notice and
the following disclaimer notice appear unmodified in all copies.
*
* I DISCLAIM ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL I
BE LIABLE FOR ANY SPECIAL, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY
DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA, OR PROFITS, WHETHER
IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
*
* Nevertheless, I would like to know about bugs in this library or
* suggestions for improvement. Send bug reports and feedback to
davegottner@delphi.com.

Tools/pybench/LICENSE

pybench License

This copyright notice and license applies to all files in the pybench
directory of the pybench distribution.

Copyright (c), 1997-2006, Marc-Andre Lemburg (mal@lemburg.com)
Copyright (c), 2000-2006, eGenix.com Software GmbH (info@egenix.com)

All Rights Reserved.

Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee or royalty is hereby
granted, provided that the above copyright notice appear in all copies
and that both that copyright notice and this permission notice appear
in supporting documentation or portions thereof, including
modifications, that you make.

THE AUTHOR MARC-ANDRE LEMBURG DISCLAIMS ALL WARRANTIES WITH REGARD TO
THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS, IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL,
INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING
FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT,
NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION
WITH THE USE OR PERFORMANCE OF THIS SOFTWARE!

Tools/pynche/X/xlicense.txt

X Window System License - X11R6.4

Copyright (c) 1998 The Open Group

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE OPEN GROUP BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of The Open Group shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization from The Open Group.

X Window System is a trademark of The Open Group

install-sh

#!/bin/sh
#
# install - install a program, script, or datafile
#
# This originates from X11R5 (mit/util/scripts/install.sh), which was
# later released in X11R6 (xc/config/util/install.sh) with the
# following copyright and license.
#
# Copyright (C) 1994 X Consortium
#
# Permission is hereby granted, free of charge, to any person obtaining a copy
# of this software and associated documentation files (the "Software"), to
# deal in the Software without restriction, including without limitation the
# rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
# sell copies of the Software, and to permit persons to whom the Software is
# furnished to do so, subject to the following conditions:
#
# The above copyright notice and this permission notice shall be included in
# all copies or substantial portions of the Software.
#
# THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
# IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
# FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
# X CONSORTIUM BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN
# AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNEC-
A.16 Python 3.5.3 License

B. TERMS AND CONDITIONS FOR ACCESSING OR OTHERWISE USING PYTHON

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

PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2

1. This LICENSE AGREEMENT is between the Python Software Foundation ("PSF"), and the Individual or Organization ("Licensee") accessing and otherwise using this software ("Python") in source or binary form and its associated documentation.


3. In the event Licenseeprepares a derivative work that is based on or incorporates Python or any part thereof, and wants to make the derivative work available to others as provided herein, then Licensee hereby agrees to include in any such work a brief summary of the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS" basis. PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between PSF and Licensee. This License Agreement does not grant permission to use PSF trademarks or trade name in a trademark sense to endorse or promote trademarks or trade name in a trademark sense to endorse or promote products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee agrees to be bound by the terms and conditions of this License Agreement.
From the Doc/license.rst file:

Licenses and Acknowledgements for Incorporated Software

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

This section is an incomplete, but growing list of licenses and acknowledgements for third-party software incorporated in the Python distribution.

Mersenne Twister

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

The :mod:`_random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26.

Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed) or init_by_array(init_key, key_length).

Copyright (C) 1997 - 2002, Makoto Matsumoto and Takuji Nishimura,

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. The names of its contributors may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Any feedback is very welcome.

http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html

email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

Sockets
The :mod:`socket` module uses the functions, :func:`getaddrinfo`, and :func:`getnameinfo`, which are coded in separate source files from the WIDE Project, http://www.wide.ad.jp/. ::


All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. Neither the name of the project nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE PROJECT AND CONTRIBUTORS "AS IS" AND GAI_ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE PROJECT OR CONTRIBUTORS BE LIABLE FOR GAI_ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON GAI_ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN GAI_ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Floating point exception control

The source for the :mod:`fpectl` module includes the following notice::

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

Copyright (c) 1996.

The Regents of the University of California.
All rights reserved.

Permission to use, copy, modify, and distribute this software for any purpose without fee is hereby granted, provided that this entire notice is included in all copies of any software which is or includes a copy or modification of this software and in all copies of the supporting documentation for such software.

This work was produced at the University of California, Lawrence Livermore National Laboratory under contract no. W-7405-ENG-48 between the U.S. Department of Energy and The Regents of the University of California for the operation of UC LLNL.
Asynchronous socket services

The :mod:`asynchat` and :mod:`asyncore` modules contain the following notice::

Copyright 1996 by Sam Rushing

All Rights Reserved

Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of Sam Rushing not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission.

SAM RUSHING DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL SAM RUSHING BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Cookie management

The :mod:`http.cookies` module contains the following notice::

Copyright 2000 by Timothy O'Malley <timo@alum.mit.edu>

All Rights Reserved

Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission

notice appear in supporting documentation, and that the name of Timothy O'Malley
not be used in advertising or publicity pertaining to distribution of the software without
specific, written prior permission.

Timothy O'Malley DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS
SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS, IN NO EVENT SHALL Timothy O'Malley BE LIABLE FOR ANY
SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER
IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION,
ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF
THIS SOFTWARE.

Execution tracing
------------------------------------------
The :mod:`trace` module contains the following notice::

portions copyright 2001, Autonomous Zones Industries, Inc., all rights... err... reserved
and offered to the public under the terms of the Python 2.2 license.

Author: Zooko O'Whielacronx

http://zooko.com/

mailto:zooko@zooko.com

Copyright 2000, Mojam Media, Inc., all rights reserved.

Author: Skip Montanaro

Copyright 1999, Bioreason, Inc., all rights reserved.

Author: Andrew Dalke

Copyright 1995-1997, Automatrix, Inc., all rights reserved.

Author: Skip Montanaro

Copyright 1991-1995, Stichting Mathematisch Centrum, all rights reserved.

Permission to use, copy, modify, and distribute this Python software and its associated
documentation for any purpose without fee is hereby granted, provided that the above
copyright notice appears in all copies, and that both that copyright notice and this
permission notice appear in supporting documentation, and that the name of neither
Automatrix, Bioreason or Mojam Media be used in advertising or publicity pertaining to
distribution of the software without specific, written prior permission.

UUencode and UUdecode functions
--------------------------------------
The :mod:`uu` module contains the following notice::

Copyright 1994 by Lance Ellinghouse

Cathedral City, California Republic, United States of America.

All Rights Reserved

Permission to use, copy, modify, and distribute this software and its documentation
for any purpose and without fee is hereby granted, provided that the above copyright
notice appear in all copies and that both that copyright notice and this permission
notice appear in supporting documentation, and that the name of Lance Ellinghouse
not be used in advertising or publicity pertaining to distribution of the software without
specific, written prior permission.

LANCE ELLINGHOUSE DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS
SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY
AND FITNESS, IN NO EVENT SHALL LANCE ELLINGHOUSE CENTRUM BE
LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR
ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR
PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER
TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THIS SOFTWARE.

Modified by Jack Jansen, CWI, July 1995:

• Use binascii module to do the actual line-by-line conversion between ascii and
  binary. This results in a 1000-fold speedup. The C version is still 5 times faster,
  though.

• Arguments more compliant with Python standard

XML Remote Procedure Calls

XML-RPC client interface is

Copyright (c) 1999-2002 by Secret Labs AB

Copyright (c) 1999-2002 by Fredrik Lundh

By obtaining, using, and/or copying this software and/or its associated documentation,
you agree that you have read, understood, and will comply with the following terms
and conditions:

Permission to use, copy, modify, and distribute this software and its associated
documentation for any purpose and without fee is hereby granted, provided that the
above copyright notice appears in all copies, and that both that copyright notice and
this permission notice appear in supporting documentation, and that the name of
Secret Labs AB or the author not be used in advertising or publicity pertaining to
distribution of the software without specific, written prior permission.

SECRET LABS AB AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH
REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF
MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL SECRET LABS AB OR
THE AUTHOR BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL
DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE,
DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR
OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE
USE OR PERFORMANCE OF THIS SOFTWARE.

test_epoll

---------

The :mod:`test_epoll` contains the following notice::

Copyright (c) 2001-2006 Twisted Matrix Laboratories.
Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the “Software”), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Select kqueue

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

The :mod:`select` and contains the following notice for the kqueue interface::

Copyright (c) 2000 Doug White, 2006 James Knight, 2007 Christian Heimes

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

SipHash24

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

The file :file:`Python/pyhash.c` contains Marek Majkowski' implementation of Dan Bernstein's SipHash24 algorithm. The contains the following note::

<MIT License>
Copyright (c) 2013 Marek Majkowski <marek@popcount.org>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

</MIT License>

Original location:

https://github.com/majek/csiphash/

Solution inspired by code from:

Samuel Neves (supercop/crypto_auth/siphash24/little)

djb (supercop/crypto_auth/siphash24/little2)

Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)

strtod and dtoa

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

The file :file:'Python/dtoa.c', which supplies C functions dtoa and strtod for conversion of C doubles to and from strings, is derived from the file of the same name by David M. Gay, currently available from http://www.netlib.org/fp/. The original file, as retrieved on March 16, 2009, contains the following copyright and licensing notice::<

/****************************************************************************
 * 
 * The author of this software is David M. Gay.
 * 
 * Copyright (c) 1991, 2000, 2001 by Lucent Technologies.
 * 
 * Permission to use, copy, modify, and distribute this software for any 
 * purpose without fee is hereby granted, provided that this entire notice 
 * is included in all copies of any software which is or includes a copy 
 * or modification of this software and in all copies of the supporting 
 * documentation for such software.
 * 
 * THIS SOFTWARE IS BEING PROVIDED "AS IS", WITHOUT ANY EXPRESS OR IMPLIED 
 * WARRANTY. IN PARTICULAR, NEITHER THE AUTHOR NOR LUCENT MAKES ANY 
 * REPRESENTATION OR WARRANTY OF ANY KIND CONCERNING THE MERCHANTABILITY 
 * OF THIS SOFTWARE OR ITS FITNESS FOR ANY PARTICULAR PURPOSE.
 * 
 ****************************************************************************/

expat

-------

The :mod:`pyexpat` extension is built using an included copy of the expat sources unless the build is configured "--with-system-expat":;

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

expat

-------

The :mod:`pyexpat` extension is built using an included copy of the expat sources unless the build is configured "--with-system-expat":;
Copyright (c) 1998, 1999, 2000 Thai Open Source Software Center Ltd and Clark Cooper

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

libffi
-------

The :mod:`_ctypes` extension is built using an included copy of the libffi sources unless the build is configured "--with-system-libffi":

Copyright (c) 1996-2008 Red Hat, Inc and others.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

zlib
------

The :mod:`zlib` extension is built using an included copy of the zlib sources if the zlib version found on the system is too old to be used for the build:

Copyright (C) 1995-2011 Jean-loup Gailly and Mark Adler

This software is provided 'as-is', without any express or implied warranty. In no event will the authors be held liable for any damages arising from the use of this software.
Permission is granted to anyone to use this software for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not claim that you wrote the original software. If you use this software in a product, an acknowledgment in the product documentation would be appreciated but is not required.

2. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.

3. This notice may not be removed or altered from any source distribution.

Jean-loup Gailly   Mark Adler
jloup@gzip.org     madler@alumni.caltech.edu

cfuhash

----------

The implementation of the hash table used by the :mod:`tracemalloc` is based on the cfuhash project:

Copyright (c) 2005 Don Owens

All rights reserved.

This code is released under the BSD license:

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- Neither the name of the author nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

libmpdec

----------
The :mod:`decimal` Module is built using an included copy of the libmpdec library unless the build is configured "--with-system-libmpdec":

Copyright (c) 2008-2016 Stefan Krah. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Additional attribution text found in the source:

::::::::::::::
Lib/bsddb/__init__.py
::::::::::::::
# Copyright (c) 1999-2001, Digital Creations, Fredericksburg, VA, USA
# and Andrew Kuchling. All rights reserved.
#
# Redistribution and use in source and binary forms, with or without
# modification, are permitted provided that the following conditions are
# met:
# o Redistributions of source code must retain the above copyright
#    notice, this list of conditions, and the disclaimer that follows.
# o Redistributions in binary form must reproduce the above copyright
#    notice, this list of conditions, and the following disclaimer in
#    the documentation and/or other materials provided with the
#    distribution.
# o Neither the name of Digital Creations nor the names of its
#    contributors may be used to endorse or promote products derived
#    from this software without specific prior written permission.
#
# THIS SOFTWARE IS PROVIDED BY DIGITAL CREATIONS AND CONTRIBUTORS "AS
# IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
# TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
# PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL DIGITAL
# CREATIONS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
# INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING,
# BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS
# OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND
# ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR
# TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE
# USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH
# DAMAGE.

Lib/compiler/transformer.py

# Original version written by Greg Stein (gstein@lyra.org)
# and Bill Tutt (rassilon@lima.mudlib.org)
# February 1997.
#
# Modifications and improvements for Python 2.0 by Jeremy Hylton and
# Mark Hammond
#
# Some fixes to try to have correct line number on almost all nodes
# (except Module, Discard and Stmt) added by Sylvain Thenault
#
# Portions of this file are:
# Copyright (C) 1997-1998 Greg Stein. All Rights Reserved.
#
# This module is provided under a BSD-ish license. See
# http://www.opensource.org/licenses/bsd-license.html
# and replace OWNER, ORGANIZATION, and YEAR as appropriate.

Lib/lib-tk/turtle.py

# Copyright (C) 2006 - 2010 Gregor Lingl
# email: glingl@aon.at
#
# This software is provided 'as-is', without any express or implied
# warranty. In no event will the authors be held liable for any damages
# arising from the use of this software.
#
# Permission is granted to anyone to use this software for any purpose,
# including commercial applications, and to alter it and redistribute it
# freely, subject to the following restrictions:
#
# 1. The origin of this software must not be misrepresented; you must not
#    claim that you wrote the original software. If you use this software
#    in a product, an acknowledgment in the product documentation would be
#    appreciated but is not required.
# 2. Altered source versions must be plainly marked as such, and must not be
#    misrepresented as being the original software.
# 3. This notice may not be removed or altered from any source distribution.

Lib/logging/__init__.py

# Copyright 2001-2016 by Vinay Sajip. All Rights Reserved.
#
# Permission to use, copy, modify, and distribute this software and its
# documentation for any purpose and without fee is hereby granted,
# provided that the above copyright notice appear in all copies and that
# both that copyright notice and this permission notice appear in
# supporting documentation, and that the name of Vinay Sajip
# not be used in advertising or publicity pertaining to distribution
# of the software without specific, written prior permission.
# VINAY SAJIP DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING
# ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL
# VINAY SAJIP BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR
# ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER
# IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
# OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Lib/multiprocessing/__init__.py

# Copyright (c) 2006-2008, R Oudkerk
# All rights reserved.
# Redistribution and use in source and binary forms, with or without
# modification, are permitted provided that the following conditions
# are met:
# 1. Redistributions of source code must retain the above copyright
#    notice, this list of conditions and the following disclaimer.
# 2. Redistributions in binary form must reproduce the above copyright
#    notice, this list of conditions and the following disclaimer in the
#    documentation and/or other materials provided with the distribution.
# 3. Neither the name of author nor the names of any contributors may be
#    used to endorse or promote products derived from this software
#    without specific prior written permission.
# THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS "AS IS" AND
# ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
# IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
# ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE
# FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
# DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
# OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
# HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
# LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
# OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF

Lib/optparse.py

Copyright (c) 2001-2006 Gregory P. Ward. All rights reserved.
Copyright (c) 2002-2006 Python Software Foundation. All rights reserved.

Redistribution and use in source and binary forms, with or without
modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright
  notice, this list of conditions and the following disclaimer.

* Redistributions in binary form must reproduce the above copyright
  notice, this list of conditions and the following disclaimer in the
  documentation and/or other materials provided with the distribution.

* Neither the name of the author nor the names of its
  contributors may be used to endorse or promote products derived from
  this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 1999-2000, Marc-Andre Lemburg; mailto:mal@lemburg.com
Copyright (c) 2000-2010, eGenix.com Software GmbH; mailto:info@egenix.com

Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee or royalty is hereby granted,
provided that the above copyright notice appear in all copies and that
both that copyright notice and this permission notice appear in
supporting documentation or portions thereof, including modifications,
that you make.

EGENIX.COM SOFTWARE GMBH DISCLAIMS ALL WARRANTIES WITH REGARD TO
THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS, IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL,
INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING
FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT,
NEGligence OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION
WITH THE USE OR PERFORMANCE OF THIS SOFTWARE!

# Copyright Disney Enterprises, Inc. All Rights Reserved.
# Licensed to PSF under a Contributor Agreement
# Licensed under the Apache License, Version 2.0 (the "License");
# you may not use this file except in compliance with the License.
# You may obtain a copy of the License at
# http://www.apache.org/licenses/LICENSE-2.0
#
# Unless required by applicable law or agreed to in writing, software
# distributed under the License is distributed on an "AS IS" BASIS,
# WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND,
# either express or implied. See the License for the specific language
# governing permissions and limitations under the License.

# Copyright (C) 2005 Gerhard Häring <gh@ghierring.de>
# This file is part of pysqlite.
# This software is provided 'as-is', without any express or implied
# warranty. In no event will the authors be held liable for any damages
# arising from the use of this software.
# Permission is granted to anyone to use this software for any purpose,
# including commercial applications, and to alter it and redistribute it
# freely, subject to the following restrictions:
# 1. The origin of this software must not be misrepresented; you must not
#    claim that you wrote the original software. If you use this software
#    in a product, an acknowledgment in the product documentation would be
#    appreciated but is not required.
# 2. Altered source versions must be plainly marked as such, and must not be
#    misrepresented as being the original software.
# 3. This notice may not be removed or altered from any source distribution.
 Lib/tarfile.py

# Copyright (C) 2002 Lars Gustäbel <lars@gustaebel.de>
# All rights reserved.
#
# Permission is hereby granted, free of charge, to any person
# obtaining a copy of this software and associated documentation
# files (the "Software"), to deal in the Software without
# restriction, including without limitation the rights to use,
# copy, modify, merge, publish, distribute, sublicense, and/or sell
# copies of the Software, and to permit persons to whom the
# Software is furnished to do so, subject to the following
# conditions:
#
# The above copyright notice and this permission notice shall be
# included in all copies or substantial portions of the Software.
#
# THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
# EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES
# OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND
# NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
# HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
# WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
# FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
# OTHER DEALINGS IN THE SOFTWARE.

 Lib/unittest.py

Copyright (c) 1999-2003 Steve Purcell
This module is free software, and you may redistribute it and/or modify
it under the same terms as Python itself, so long as this copyright message
and disclaimer are retained in their original form.

IN NO EVENT SHALL THE AUTHOR BE LIABLE TO ANY PARTY FOR DIRECT, INDIRECT,
SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OF
THIS CODE, EVEN IF THE AUTHOR HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH
DAMAGE.

THE AUTHOR SPECIFICALLY DISCLAIMS ANY WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A
PARTICULAR PURPOSE. THE CODE PROVIDED HERUNDER IS ON AN "AS IS" BASIS,
AND THERE IS NO OBLIGATION WHATSOEVER TO PROVIDE MAINTENANCE,
SUPPORT, UPDATES, ENHANCEMENTS, OR MODIFICATIONS.

 Modules/_localemodule.c

Copyright (C) 1997, 2002, 2003 Martin von Loewis

Permission to use, copy, modify, and distribute this software and its
documentation for any purpose and without fee is hereby granted,
provided that the above copyright notice appear in all copies.

This software comes with no warranty. Use at your own risk.

 Modules/parsermodule.c

* Copyright 1995-1996 by Fred L. Drake, Jr. and Virginia Polytechnic
  Institute and State University, Blacksburg, Virginia, USA.
* Portions copyright 1991-1995 by Stichting Mathematisch Centrum,
  Amsterdam, The Netherlands. Copying is permitted under the terms
* associated with the main Python distribution, with the additional
* restriction that this additional notice be included and maintained
* on all distributed copies.

...............:
Modules/timing.h
...............:
/*
* Copyright (c) 1993 George V. Neville-Neil
* All rights reserved.
*
* Redistribution and use in source and binary forms, with or without
* modification, are permitted provided that the following conditions
* are met:
* 1. Redistributions of source code must retain the above copyright
*    notice, this list of conditions and the following disclaimer.
* 2. Redistributions in binary form must reproduce the above copyright
*    notice, this list of conditions and the following disclaimer in the
*    documentation and/or other materials provided with the distribution.
* 3. The name, George Neville-Neil may not be used to endorse or promote
*    products derived from this software without specific prior
*    written permission.
*
* THIS SOFTWARE IS PROVIDED BY THE AUTHOR "AS IS" AND ANY EXPRESS OR
* IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE
* IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE
* ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE
* FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL
* DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS
* OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)
* HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
*/

...............:
Parser/spark.py
...............:
# Copyright (c) 1998-2002 John Aycock
#
# Permission is hereby granted, free of charge, to any person obtaining
# a copy of this software and associated documentation files (the
# "Software"), to deal in the Software without restriction, including
# without limitation the rights to use, copy, modify, merge, publish,
# distribute, sublicense, and/or sell copies of the Software, and to
# permit persons to whom the Software is furnished to do so, subject to
# the following conditions:
#
# The above copyright notice and this permission notice shall be
# included in all copies or substantial portions of the Software.
#
# THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,
# EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF
# MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.
# IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY
# CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,
# TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE
# SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

...............:
Python/getopt.c
...............:
* Copyright 1992-1994, David Gottner
All Rights Reserved

Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice, this permission notice and the following disclaimer appear unmodified in all copies.

I DISCLAIM ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL I BE LIABLE FOR ANY SPECIAL, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM USE, DATA, OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Nevertheless, I would like to know about bugs in this library or suggestions for improvement. Send bug reports and feedback to davegottner@delphi.com.

This copyright notice and license applies to all files in the pybench directory of the pybench distribution.

Copyright (c), 1997-2006, Marc-Andre Lemburg (ma@lemburg.com)
Copyright (c), 2000-2006, eGenix.com Software GmbH (info@egenix.com)

All Rights Reserved.

Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee or royalty is hereby granted, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation or portions thereof, including modifications, that you make.

THE AUTHOR MARC-ANDRE LEMBURG DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS, IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE!

Copyright (c) 1998 The Open Group

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:
The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE OPEN GROUP BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Except as contained in this notice, the name of The Open Group shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization from The Open Group.

X Window System is a trademark of The Open Group

install-sh

!/bin/sh
#
# install - install a program, script, or datafile
#
# This originates from X11R5 (mit/util/scripts/install.sh), which was
# later released in X11R6 (xc/config/util/install.sh) with the
# following copyright and license.
#
# Copyright (C) 1994 X Consortium
#
# Permission is hereby granted, free of charge, to any person obtaining a copy
# of this software and associated documentation files (the "Software"), to
# deal in the Software without restriction, including without limitation the
# rights to use, copy, modify, merge, publish, distribute, sublicense, and/or
# sell copies of the Software, and to permit persons to whom the Software is
# furnished to do so, subject to the following conditions:
#
# The above copyright notice and this permission notice shall be included in
# all copies or substantial portions of the Software.
#
# THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
# IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
# FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
# X CONSORTIUM BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN
# AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNEC-
# TION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
#
# Except as contained in this notice, the name of the X Consortium shall not
# be used in advertising or otherwise to promote the sale, use or other deal-
# ings in this Software without prior written authorization from the X Consor-
# tium.

Include/dynamic_annotations.h
Python/dynamic_annotations.c

/* Copyright (c) 2008-2009, Google Inc. *
 * All rights reserved. *
 *
 * Redistribution and use in source and binary forms, with or without *
 * modification, are permitted provided that the following conditions are *
 * met:
A.17 The Apache Software License, Version 1.1

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. The end-user documentation included with the distribution, if any, must include the following acknowledgment:

   "This product includes software developed by the Apache Software Foundation (http://www.apache.org/)."

   Alternately, this acknowledgment may appear in the software itself, if and wherever such third-party acknowledgments normally appear.
4. The names identified above with the specific software must not be used to endorse or promote products derived from this software without prior written permission. For written permission, please contact apache@apache.org.

5. Products derived from this software may not be called "Apache", nor may "Apache" appear in their name, without prior written permission of the Apache Group.

THIS SOFTWARE IS PROVIDED "AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE APACHE SOFTWARE FOUNDATION OR ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

A.18 The Apache Software License, Version 2.0

The following applies to all products licensed under the Apache 2.0 License:

You may not use the identified files except in compliance with the Apache License, Version 2.0 (the "License.")

You may obtain a copy of the License at http://www.apache.org/licenses/LICENSE-2.0. A copy of the license is also reproduced below.

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

See the License for the specific language governing permissions and limitations under the License.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii)
ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement You may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or
consequential damages of any character arising as a result of this License or out of
the use or inability to use the Work (including but not limited to damages for loss
of goodwill, work stoppage, computer failure or malfunction, or any and all other
commercial damages or losses), even if such Contributor has been advised of the
possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative
Works thereof, You may choose to offer, and charge a fee for, acceptance of support,
warranty, indemnity, or other liability obligations and/or rights consistent with this
License. However, in accepting such obligations, You may act only on Your own behalf
and on Your sole responsibility, not on behalf of any other Contributor, and only if
You agree to indemnify, defend, and hold each Contributor harmless for any liability
incurred by, or claims asserted against, such Contributor by reason of your accepting
any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate notice, with
the fields enclosed by brackets "[ ]" replaced with your own identifying information.
(Don't include the brackets!) The text should be enclosed in the appropriate comment
syntax for the file format. We also recommend that a file or class name and description
of purpose be included on the same "printed page" as the copyright notice for easier
identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this
file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under
the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR
CONDITIONS OF ANY KIND, either express or implied. See the License for the
specific language governing permissions and limitations under the License.

A.19 TinkerPop Gremlin Server 3.3.1 License

The following JARs from TinkerPop Gremlin Server version 3.3.1 are used in this
product:

gremlin-core-3.3.1.jar

gremlin-shaded-3.3.1

javapoet 1.8.0

This product is licensed under the Apache 2.0 license agreement. See The Apache
Software License, Version 2.0.

=================================================================
BSD-style Licenses
=================================================================

The Apache TinkerPop project bundles the following components under the BSD
License:
jcabi-log (com.jcabi:jcabi-log:0.14 - http://www.jcabi.com/jcabi-log) - for details, see licenses/jcabi-log
JLine (jline:jline:2.12 - https://github.com/jline/jline2) - for details, see licenses/jline2
- shaded in gremlin-shaded to org.apache.tinkerpop.shaded.kryo
- for details, see licenses/kryo
minlog (com.esotericsoftware:minlog:1.3.0 - https://github.com/EsotericSoftware/minlog)
- shaded in gremlin-shaded to org.apache.tinkerpop.shaded.minlog
- for details, see licenses/minlog

MIT Licenses

The Apache TinkerPop project bundles the following components under the MIT License:

JCL 1.1.1 implemented over SLF4J (org.slf4j:jcl-over-slf4j:1.7.21 - http://www.slf4j.org)
- for details, see licenses/slf4j
SLF4J API Module (org.slf4j:slf4j-api:1.7.21 - http://www.slf4j.org) - for details, see licenses/slf4j
SLF4J LOG4J-12 Binding (org.slf4j:slf4j-log4j12:1.7.21 - http://www.slf4j.org) - for details, see licenses/slf4j
Foundation stylesheet for CodeRay (http://foundation.zurb.com) - for details, see licenses/foundation
normalize.css 2.1.2 (http://necolas.github.io/normalize.css/) - for details, see licenses/normalize

Other Licenses

The Apache TinkerPop project bundles the following components under the ISC License:

jBCrypt (org.mindrot:jbcrypt:0.4 - https://github.com/djmdjm/jBCrypt) - for details, see licenses/jbcrypt
Apache TinkerPop (incubating)
Copyright 2015-2017 The Apache Software Foundation.
This product includes software developed at
The Apache Software Foundation (http://www.apache.org/).

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

Apache Commons Lang 3.3.1/2.6 (AL ASF)

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

This product includes software from the Spring Framework, under the Apache License 2.0 (see: StringUtils.containsWhitespace())

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

Apache Groovy 2.4.7 (AL ASF)

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

This product includes/uses ANTLR (http://www.antlr2.org/) developed by Terence Parr 1989-2006

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

Apache Ivy 2.3.0 (AL ASF)

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

Portions of Ivy were originally developed by Jayasoft SARL (http://www.jayasoft.fr/) and are licensed to the Apache Software Foundation under the "Software Grant License Agreement"

SSH and SFTP support is provided by the JCraft JSch package, which is open source software, available under the terms of a BSD style license. The original software and related information is available at http://www.jcraft.com/jsch/.

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

JavaTuples 1.2

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

Copyright (c) 2010, The JAVATUPLES team (http://www.javatuples.org)

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

Metrics 3.0.2

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

Copyright 2010-2013 Coda Hale and Yammer, Inc., 2014-2015 Dropwizard Team

This product includes software developed by Coda Hale and Yammer, Inc.

This product includes code derived from the JSR-166 project (ThreadLocalRandom, Striped64, LongAdder), which was released with the following comments:

Written by Doug Lea with assistance from members of JCP JSR-166 Expert Group and released to the public domain, as explained at http://creativecommons.org/publicdomain/zero/1.0/

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

Netty 4.0.34

------------------------------------------------------------------------
Copyright 2014 The Netty Project

foundation

Copyright (c) 2013-2016 ZURB, inc.

MIT License

Permission is hereby granted, free of charge, to any person obtaining a copy of
this software and associated documentation files (the "Software"), to deal in the
Software without restriction, including without limitation the rights to use, copy, modify,
merge, publish, distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice shall be included in all copies or
substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY
KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE
AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

jbcrypt

jBCrypt is subject to the following license:

/*
 * Copyright (c) 2006 Damien Miller <djm@mindrot.org>
 *
 * Permission to use, copy, modify, and distribute this software for any
 * purpose with or without fee is hereby granted, provided that the above
 * copyright notice and this permission notice appear in all copies.
 *
 * THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL
 * WARRANTIES
 * WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
 * MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE
 * FOR
 * ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY
 * DAMAGES
 * WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
 * ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT
 * OF
 * OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
 */

jcabi-log

Copyright (c) 2012-2015, jcabi.com

All rights reserved.
Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: 1) Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. 2) Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. 3) Neither the name of the jcabi.com nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

jcabi-manifests

Copyright (c) 2012-2015, jcabi.com

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: 1) Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. 2) Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. 3) Neither the name of the jcabi.com nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

jline2

Copyright (c) 2002-2012, the original author or authors.

All rights reserved.
http://www.opensource.org/licenses/bsd-license.php

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the name of JLine nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

kryo

Copyright (c) 2008, Nathan Sweet

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- Neither the name of Esoteric Software nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN
ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE
POSSIBILITY OF SUCH DAMAGE.

minlog

Copyright (c) 2008, Nathan Sweet

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

• Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
• Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
• Neither the name of Esoteric Software nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

normalize

Copyright (c) Nicolas Gallagher and Jonathan Neal

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
slf4j

Copyright (c) 2004-2013 QOS.ch

All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of
this software and associated documentation files (the "Software"), to deal in the
Software without restriction, including without limitation the rights to use, copy, modify,
merge, publish, distribute, sublicense, and/or sell copies of the Software, and to
permit persons to whom the Software is furnished to do so, subject to the following
conditions:

The above copyright notice and this permission notice shall be included in all copies or
substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY
KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE
WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE
AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT
HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY,
WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING
FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR
OTHER DEALINGS IN THE SOFTWARE.

https://github.com/square/javapoet/blob/master/README.md

Copyright 2015 Square, Inc.

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this
file except in compliance with the License. You may obtain a copy of the License at
http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under
the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR
CONDITIONS OF ANY KIND, either express or implied. See the License for the
specific language governing permissions and limitations under the License.

A.20 ant 1.9.6 License

Apache Ant

Copyright 1999-2015 The Apache Software Foundation

This product includes software developed at The Apache Software Foundation (http://
www.apache.org/).

The <sync> task is based on code Copyright (c) 2002, Landmark Graphics Corp that
has been kindly donated to the Apache Software Foundation.

This product is licensed under the Apache 2.0 license agreement. See The Apache
Software License, Version 2.0.

W3C® SOFTWARE NOTICE AND LICENSE

http://www.w3.org/Consortium/Legal/2002/copyright-software-20021231

This work (and included software, documentation such as READMEs, or other related
items) is being provided by the copyright holders under the following license. By
obtaining, using and/or copying this work, you (the licensee) agree that you have read, understood, and will comply with the following terms and conditions.

Permission to copy, modify, and distribute this software and its documentation, with or without modification, for any purpose and without fee or royalty is hereby granted, provided that you include the following on ALL copies of the software and documentation or portions thereof, including modifications:

1. The full text of this NOTICE in a location viewable to users of the redistributed or derivative work.

2. Any pre-existing intellectual property disclaimers, notices, or terms and conditions. If none exist, the W3C Software Short Notice should be included (hypertext is preferred, text is permitted) within the body of any redistributed or derivative code.

3. Notice of any changes or modifications to the files, including the date changes were made. (We recommend you provide URIs to the location from which the code is derived.)

THIS SOFTWARE AND DOCUMENTATION IS PROVIDED "AS IS," AND COPYRIGHT HOLDERS MAKE NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF THE SOFTWARE OR DOCUMENTATION WILL NOT INFRINGE ANY THIRD PARTY PATENTS, COPYRIGHTS, TRADEMARKS OR OTHER RIGHTS.

COPYRIGHT HOLDERS WILL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF ANY USE OF THE SOFTWARE OR DOCUMENTATION.

The name and trademarks of copyright holders may NOT be used in advertising or publicity pertaining to the software without specific, written prior permission. Title to copyright in this software and any associated documentation will at all times remain with copyright holders.

This formulation of W3C's notice and license became active on December 31 2002. This version removes the copyright ownership notice such that this license can be used with materials other than those owned by the W3C, reflects that ERCIM is now a host of the W3C, includes references to this specific dated version of the license, and removes the ambiguous grant of "use". Otherwise, this version is the same as the previous version and is written so as to preserve the Free Software Foundation's assessment of GPL compatibility and OSI's certification under the Open Source Definition. Please see our Copyright FAQ for common questions about using materials from our site, including specific terms and conditions for packages like libwww, Amaya, and Jigsaw. Other questions about this notice can be directed to site-policy@w3.org.

Joseph Reagle <site-policy@w3.org>

This license came from: http://www.megginson.com/SAX/copying.html

However please note future versions of SAX may be covered under http://saxproject.org/?selected=pd

SAX2 is Free!

I hereby abandon any property rights to SAX 2.0 (the Simple API for XML), and release all of the SAX 2.0 source code, compiled code, and documentation contained
in this distribution into the Public Domain. SAX comes with NO WARRANTY or guarantee of fitness for any purpose.

David Megginson, david@megginson.com

2000-05-05
Index

Symbols
.NET Stored Procedures, 1-5

A
Active Data Guard
See Oracle Active Data Guard
Active Directory, 1-14
Advanced Analytics
See Oracle Advanced Analytics
Advanced Compression
See Oracle Advanced Compression
advanced index compression, 1-16
Advanced Security
See Oracle Advanced Security
Application Continuity, 1-5
Application Express
See Oracle Application Express
ASM
See Oracle Automatic Storage Management (Oracle ASM)
attribute clustering, 1-13
automatic block repair, 1-7, 1-18
automatic correction of non-logged blocks, 1-6
automatic data optimization, 1-16
Automatic In-Memory, 1-13
Automatic Workload Management, 1-13

B
backup and recovery, 1-7
backup, fast incremental, 1-6, 1-18
basic table compression, 1-16
bitmap plan conversion, 1-17
bitmapped index, 1-17
block compression, 1-6
block repair, 1-7
block-level media recovery, 1-6

C
CDB Fleet Management, 1-4
Centrally Managed Users, 1-14
client side query cache, 1-12

Cloud Management Pack
See Oracle Cloud Management Pack
Connection Manager
See Oracle Connection Manager

D
Data Guard
See Oracle Data Guard
Data Guard Far Sync, 1-6, 1-50
Data Masking and Subsetting Pack
See Oracle Data Masking and Subsetting Pack
Data Pump, 1-17
Database Consolidation Workbench, 1-23
database gateways, 1-8
database options, 1-17
checking for usage, 1-49
Oracle Active Data Guard, 1-6
Oracle Advanced Analytics, 1-16
Oracle Advanced Compression, 1-16
Oracle Advanced Security, 1-14, 1-50
Oracle Database In-Memory, 1-12, 1-17
Oracle Database Vault, 1-14, 1-17, 1-50, 1-55
Oracle Label Security, 1-14
Oracle Machine Learning, 1-16
Oracle Multitenant, 1-4
Oracle On-Line Analytical Processing (OLAP), 1-16
Oracle Partitioning, 1-15, 1-16
Oracle RAC One Node, 1-5
Oracle Real Application Clusters (Oracle RAC), 1-1, 1-13, 1-50
Oracle Real Application Testing, 1-8, 1-50
Oracle Spatial and Graph, 1-15
Oracle TimesTen Application-Tier Database Cache, 1-12
Database Replay, 1-23, 1-50
Database Resource Manager, 1-8
database options, 1-17
Database Consolidation Workbench, 1-23
database gateways, 1-8
database options, 1-17
checking for usage, 1-49
Oracle Active Data Guard, 1-6
Oracle Advanced Analytics, 1-16
Oracle Advanced Compression, 1-16
Oracle Advanced Security, 1-14, 1-50
Oracle Database In-Memory, 1-12, 1-17
Oracle Database Vault, 1-14, 1-17, 1-50, 1-55
Oracle Label Security, 1-14
Oracle Machine Learning, 1-16
Oracle Multitenant, 1-4
Oracle On-Line Analytical Processing (OLAP), 1-16
Oracle Partitioning, 1-15, 1-16
Oracle RAC One Node, 1-5
Oracle Real Application Clusters (Oracle RAC), 1-1, 1-13, 1-50
Oracle Real Application Testing, 1-8, 1-50
Oracle Spatial and Graph, 1-15
Oracle TimesTen Application-Tier Database Cache, 1-12
Database Replay, 1-23, 1-50
Database Resource Manager, 1-8
database options, 1-17
client side query cache, 1-12

DBCS EE
See Oracle Database Cloud Service Enterprise Edition

DBCS EE-EP
See Oracle Database Cloud Service Enterprise Edition - Extreme Performance

DBCS EE-HP
See Oracle Database Cloud Service Enterprise Edition - High Performance

DBCS SE
See Oracle Database Cloud Service Standard Edition
defered segment creation, 1-16
Diagnostics Pack
See Oracle Diagnostics Pack
duplexed backup sets, 1-6

e
editions, 1-1
EE
See Oracle Database Enterprise Edition
EE-ES
See Oracle Database Enterprise Edition on Engineered Systems
Enterprise Edition
See Oracle Database Enterprise Edition
Enterprise Package
See Oracle Database Cloud Service Enterprise Edition
Enterprise User Security, 1-14, 1-50, 1-55
ExaCS
See Oracle Database Exadata Cloud Service
Exadata
See Oracle Exadata
Extmeme Performance Package
See Oracle Database Cloud Service Enterprise Edition - Extreme Performance

F
Fail Safe
See Oracle Fail Safe
far sync, 1-6, 1-50
fast incremental backup, 1-6, 1-18
fast-start fault recovery, 1-7
Fault Tolerant In-Memory Column Store, 1-13
feature availability, 1-3
fine-grained auditing, 1-14
flash cache, 1-12
flashback
database, 1-7
table, 1-7
transaction, 1-7
transaction query, 1-7
Flashback Data Archive, 1-7
Fleet Patching and Provisioning, 1-11

G
Gateway for ODBC
See Oracle Database Gateway for ODBC
Global Data Services, 1-7, 1-50, 1-55

H
heat map, 1-16
High Performance Package
See Oracle Database Cloud Service Enterprise Edition - High Performance
HTTP Server
See Oracle HTTP Server
hybrid columnar compression, 1-16
row-level locking, 1-16

I
I/O Resource Management, 1-8
In-Memory
See Oracle Database In-Memory
In-Memory Aggregation, 1-13
In-Memory Column Cache on Storage Servers, 1-12
In-Memory Column Store, 1-13
fault tolerant, 1-13
In-Memory Column Store support for External Tables, 1-13
In-Memory Parallel Execution, 1-17
index rebuild, 1-6
Infiniband, 1-11
infrastructure repository databases, 1-50
Instance Caging, 1-8
Internet Directory
See Oracle Internet Directory (OID)

K
key compression
See prefix compression
Keystore for Each Pluggable Database, 1-15

L
Label Security
See Oracle Label Security
Lifecycle Management Pack
See Oracle Database Lifecycle Management Pack for Oracle Database
Load Testing Accelerator, 1-56
lost write protection, 1-6
Machine Learning
See Oracle Machine Learning
management packs, 1-25
cHECKing FOR USEAGE, 1-49
Oracle Cloud Management Pack, 1-8
Oracle Data Masking and Subsetting Pack, 1-8
Oracle Database Lifecycle Management Pack for Oracle Database, 1-8
Oracle Diagnostics Pack, 1-8
Oracle Tuning Pack, 1-8, 1-45
Materialized view query rewrite, 1-17
media recovery, 1-6
Memoptimized Rowstore, 1-13
messaging gateway, 1-8
Microsoft Active Directory, 1-14
Microsoft Distributed Transaction Coordinator, 1-5
Multitenant
See Oracle Multitenant

Native .NET Data Provider, 1-5

OC4J
See Oracle Application Server Containers for J2EE (OC4J)
offerings, 1-1
OID
See Oracle Internet Directory (OID)
OLAP
See Oracle On-Line Analytical Processing (OLAP)
donline datafile move, 1-7
donline index rebuild, 1-6
donline table organization, 1-6
donline table redefinition, 1-6
options
See database options
options_packs_usage_statistics.sql, 1-49
Oracle Active Data Guard, 1-6
Oracle Advanced Analytics, 1-16
Oracle Advanced Compression, 1-16
Oracle Advanced Security, 1-14, 1-50, 1-55
Oracle Application Express, 1-55
Oracle Application Server Containers for J2EE (OC4J), 1-55
Oracle Applications Unlimited, 1-55
Oracle Automatic Storage Management (Oracle ASM), 1-50, 1-52
Oracle Automatic Storage Management Cluster File System (Oracle ACFS), 1-50
Oracle Big Data SQL, 1-55
Oracle Cloud Management Pack, 1-8
Oracle Clusterware, 1-50
Oracle Connection Manager, 1-12, 1-50
Oracle Data Guard, 1-6
Oracle Data Masking and Subsetting Pack, 1-8
Oracle Database Backup Cloud Service, 1-50
Oracle Database Cloud Service Enterprise Edition, 1-1
feature availability, 1-3
options, 1-17
Oracle Database Cloud Service Enterprise Edition - Extreme Performance, 1-1
feature availability, 1-3
management packs, 1-25
options, 1-17
Oracle Database Cloud Service Enterprise Edition - High Performance, 1-1
feature availability, 1-3
management packs, 1-25
options, 1-17
Oracle Database Cloud Service Standard Edition, 1-1
feature availability, 1-3
options, 1-17
Oracle Database Enterprise Edition, 1-1
feature availability, 1-3
management packs, 1-25
options, 1-17
Oracle Database Enterprise Edition on Engineered Systems, 1-1
feature availability, 1-3
options, 1-17
Oracle Database Enterprise Edition on Oracle Database Appliance
feature availability, 1-3
Oracle Database Enterprise Edition on Oracle Engineered Systems
management packs, 1-25
Oracle Database Exadata Cloud at Customer, 1-1
Oracle Database Exadata Cloud Service, 1-1
feature availability, 1-3
management packs, 1-25
options, 1-17
Oracle Database Gateway for ODBC, 1-50
Oracle Database In-Memory, 1-12, 1-17
Oracle Database Lifecycle Management Pack for Oracle Database, 1-8
Oracle Database Mobile Server, 1-55
Oracle Database Personal Edition, 1-1
feature availability, 1-1
options, 1-17
Oracle Database Provider for DRDA, 1-50
Oracle Database Real Application Security, 1-14
Oracle Database Standard Edition 2, 1-1
  feature availability, 1-3
  options, 1-17
  special-use licensing with Oracle Real Application Clusters, 1-50
Oracle Database Vault, 1-14, 1-17, 1-50, 1-55
Oracle Developer Tools for Visual Studio .NET, 1-5
Oracle Diagnostics Pack, 1-8
Oracle Exadata, 1-12
Oracle Exadata Flash Cache Compression, 1-16
Oracle Fail Safe, 1-5
Oracle Fleet Patching and Provisioning, 1-11
Oracle GoldenGate, 1-50
Oracle HTTP Server, 1-55
Oracle Internet Directory (OID), 1-50, 1-55
Oracle Label Security, 1-14, 1-50, 1-55
Oracle Load Testing, 1-56
Oracle Load Testing Controller, 1-56
Oracle Machine Learning, 1-16
Oracle Multitenant, 1-4, 1-55
Oracle On-Line Analytical Processing (OLAP), 1-16
Oracle Partitioning, 1-15, 1-16
Oracle Programmer, 1-5, 1-55
Oracle R Enterprise, 1-16
Oracle RAC
  See Oracle Real Application Clusters (Oracle RAC)
Oracle RAC One Node, 1-5
Oracle Real Application Clusters (Oracle RAC), 1-1, 1-13, 1-50
Oracle Real Application Testing, 1-8, 1-50, 1-55
Oracle Secure Backup, 1-50, 1-55
Oracle Secure Backup Cloud Module, 1-50, 1-55
Oracle Secure Backup Express, 1-50, 1-55
Oracle Sharding, 1-5, 1-55
Oracle Spatial and Graph, 1-15
Oracle Streams, 1-7
Oracle TimesTen Application-Tier Database
  Cache, 1-12
Oracle Tuning Pack, 1-8, 1-45
Oracle Wallet, 1-50
parallel (continued)
  statistics gathering, 1-17
Parallel Data Pump Export/Import, 1-17
partitioned spatial indexes, 1-15
Partitioning
  See Oracle Partitioning
PDB Snapshot Carousel, 1-4
Personal Edition
  See Oracle Database Personal Edition
  physical standby, 1-18
PL/SQL function result cache, 1-12
pluggable databases, 1-4
point-in-time recovery, 1-7
prefix compression, 1-16
privilege analysis, 1-14
Provider for DRDA
  See Oracle Database Provider for DRDA
Quality of Service Management, 1-13
query cache, 1-12
query results cache, 1-12
R
R
  See Oracle R Enterprise
RAC One Node
  See Oracle RAC One Node
  rapid home provisioning, 1-11
Real Application Clusters
  See Oracle Real Application Clusters (Oracle RAC)
Real Application Security
  See Oracle Database Real Application Security
Real Application Testing
  See Oracle Real Application Testing
  real-time cascading standby, 1-6
  recovery,
    block-level media, 1-6
    fast-start fault, 1-7
    parallel backup and, 1-7
    point-in-time, 1-7
    trial, 1-7
redaction, 1-14
redo apply, 1-6
restricted use licensing, 1-55
rolling upgrades, 1-6
row-level locking, 1-16
S
SE2
  See Oracle Database Standard Edition 2
semantic technologies, 1-15
packages, 1-1
parallel
  backup and recovery, 1-7
  capture and apply, 1-17
  index build/scans, 1-17
  query/DML, 1-17
  spatial index builds, 1-15
  statement queuing, 1-17
redaction, 1-14
redo apply, 1-6
restricted use licensing, 1-55
rolling upgrades, 1-6
row-level locking, 1-16
| Shard Director | 1-50 |
| smart flash cache | 1-12 |
| snapshot standby | 1-6 |
| snapshots | 1-15 |
| Spatial and Graph | See Oracle Spatial and Graph |
| special license rights | 1-50 |
| SQL apply | 1-6 |
| SQL Performance Analyzer | 1-23, 1-53 |
| SQL Plan Management | 1-9 |
| SQL Tuning Sets | 1-11 |
| SQLJ | 1-5 |
| Standard Package | See Oracle Database Cloud Service Standard Edition |
| Streams | See Oracle Streams |
| table compression | 1-16 |
| timespace point-in-time recovery | 1-7 |
| TimesTen Application-Tier Database Cache | See Oracle TimesTen Application-Tier Database Cache |
| Transaction Guard | 1-7 |
| transportable table spaces | 1-17 |
| trial recovery | 1-7 |
| Tuning Pack | See Oracle Tuning Pack |
| U |
| Uncompressed Flashback Data Archive | 1-7 |
| upgrades, rolling | 1-6 |
| V |
| Virtual Private Database | 1-15 |
| W |
| Wallet | See Oracle Wallet |
| workload management | 1-13 |
| X |
| XStream | 1-17, 1-50 |
| Z |
| zone maps | 1-13, 1-21 |