

Oracle® Healthcare Translational Research

Licensing Information User Manual



Release 3.4
F38921-01



F38921-01

Copyright © 2020, 2021, Oracle and/or its affiliates.

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	
	Documentation accessibility	vi
	Related resources	vi
	Access to Oracle Support	vi
1	Introduction	
2	Licensing information	
3	Third party licenses and notices	
	Apache POI	3-1
	jQuery	3-8
	Javascript Extension Toolkit (JET)	3-9
	Protovis	3-18
	Visquick	3-18
A	Oracle Labs Data Studio third party licenses and notices	
	ACE Code Editor for the the Web	A-2
	bluebird	A-2
	commonmark-java	A-3
	Commons IO	A-3
	Commons Lang	A-3
	cx_Oracle	A-4
	cytoscape.js	A-4
	D3	A-7
	dagre	A-11
	fetch	A-13
	fuse.js	A-13
	Guava	A-14

jackson-databind	A-14
jackson-dataformat-yaml	A-15
jackson-datatype-jsr310	A-15
jackson-module-parameter-names	A-16
JavaScript Extension Toolkit (JET)	A-16
jQuery	A-22
kubernetes-client	A-23
Liquibase	A-26
lodash	A-27
matplotlib	A-27
NumPy	A-42
pandas	A-47
pip	A-56
py4j	A-56
Simple Logging Facade for Java (SLF4J)	A-57
SocketJS client	A-57
Spring Boot	A-64
Spring Retry	A-100
Springfox	A-100
STOMP.js	A-102
three.js	A-102
Thrift	A-103
Zeppelin	A-105

B PGX third party licenses and notices

Apache HC Fluent	B-2
Argparse4j	B-9
Commons Codec	B-9
Commons IO	B-9
Commons Lang	B-10
Commons VFS	B-10
DeepLearning4J	B-10
fastutil	B-20
Guava	B-21
Guice	B-21
HttpComponents HttpClient	B-34
HttpCore	B-42
jackson-annotations	B-42
jackson-databind	B-42
jackson-dataformat-yaml	B-43

Jansson	B-44
Java Low Level REST Client	B-44
Jersey	B-46
Jline	B-75
javax.socket	B-75
log4cxx	B-76
log4j	B-82
ND4J	B-84
Oniguruma	B-95
OpenSSL	B-96
Protocol Buffers (Google protobuf)	B-98
raft	B-99
Simple Logging Facade for Java (SLF4J)	B-100
Spoofax	B-100
swagger-annotations	B-103
Tipue Search	B-104
Tomcat	B-104

Preface

This preface contains the following sections:

- [Documentation accessibility](#)
- [Related resources](#)
- [Access to Oracle Support](#)

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>.

Related resources

All documentation and other supporting materials are available on the [Oracle Health Center](#).

Access to Oracle Support

Oracle customers that have purchased support have access to electronic support through Support Cloud.

Contact our Oracle Customer Support Services team by logging requests in one of the following locations:

- English interface of Oracle Health Sciences Customer Support Portal (<https://hsgbu.custhelp.com/>)
- Japanese interface of Oracle Health Sciences Customer Support Portal (<https://hsgbu-jp.custhelp.com/>)

You can also call our 24x7 help desk. For information, visit <http://www.oracle.com/us/support/contact/health-sciences-cloud-support/index.html> or visit <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs> if you are hearing impaired.

1

Introduction

This Licensing Information document is a part of the product or program documentation under the terms of your Oracle services or 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 services or 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 applicable cloud service, 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>.

2

Licensing information

The following third party technology may be included in or distributed with this product. The notices provided in this document are based on information made available to Oracle by the third party licensors listed. Some software is expressly licensed only under the license terms indicated. Such software is licensed separately and not under the terms of the Oracle license. Additionally, software whose license terms require separate licensing of the software under open source terms, including without limitation the GPL, the LGPL and the Mozilla license, will be understood to be separately licensed under the relevant open source license and not under the terms of the Oracle license.

Open source or other separately licensed software

- [Apache POI](#)
- [jQuery](#)
- [Javascript Extension Toolkit \(JET\)](#)
- [Protovis](#)
- [Visquick](#)

Oracle Healthcare Translational Research also includes third-party technology used by Oracle Labs Data Studio and PGX. For licensing information related to these products see the following:

- [Oracle Labs Data Studio third party licenses and notices](#)
- [PGX third party licenses and notices](#)

3

Third party licenses and notices

- [Apache POI](#)
- [jQuery](#)
- [Javascript Extension Toolkit \(JET\)](#)
- [Protovis](#)
- [Visquick](#)

Apache POI

Vendor: Apache

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.

APACHE POI SUBCOMPONENTS:

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

Office Open XML schemas (ooxml-schemas-1.*.jar)

The Office Open XML schema definitions used by Apache POI are a part of the Office Open XML ECMA Specification (ECMA-376, [1]). As defined in section 9.4 of the ECMA bylaws [2], this specification is available to all interested parties without restriction:

- 9.4 All documents when approved shall be made available to all interested parties without restriction.

Furthermore, both Microsoft and Adobe have granted patent licenses to this work [3,4,5].

- [1] <http://www.ecma-international.org/publications/standards/Ecma-376.htm>
- [2] <http://www.ecma-international.org/memento/Ecmabylaws.htm>
- [3] <http://www.microsoft.com/openspecifications/en/us/programs/osp/default.aspx>
- [4] <http://www.ecma-international.org/publications/files/ECMA-ST/Ecma%20PATENT/Patent%20statements%20ok/ECMA-376%20Edition%20%20Microsoft%20Patent%20Declaration.pdf>
- [5] <http://www.ecma-international.org/publications/files/ECMA-ST/Ecma%20PATENT/Patent%20statements%20ok/ECMA-376%20Adobe%20Patent%20Declaration.pdf>

Bouncy Castle library (bcprov-*.jar, bcpq-*.jar, bcpkix-*.jar)

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.

Hamcrest library (hamcrest-*.jar) & CuvesAPI / Curve API

BSD License

Copyright (c) 2000-2006, www.hamcrest.org
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 Hamcrest 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.

SLF4J library (slf4j-api-*.jar)

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.

inbot-utils (<https://github.com/Inbot/inbot-utils>)

The MIT License (MIT)

Copyright (c) 2015 Inbot

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.

Notice File:

Apache POI
Copyright 2003-2019 The Apache Software Foundation

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

This product contains parts that were originally based on software from BEA.
Copyright (c) 2000-2003, BEA Systems, (dead link),
which was acquired by Oracle Corporation in 2008.

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 chunks_parse_cmds.tbl file from the vsdump program.
Copyright (C) 2006-2007 Valek Filippov (frob@df.ru)

This product contains parts of the eID Applet project
and .
Copyright (c) 2009-2014
FedICT (federal ICT department of Belgium), e-Contract.be BVBA (<https://www.e-contract.be/>),
Bart Hanssens from FedICT

Apache Commons Codec
Copyright 2002-2017 The Apache Software Foundation

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

src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java
contains test data from <http://aspell.net/test/orig/batch0.tab>.
Copyright (C) 2002 Kevin Atkinson (kevina@gnu.org)

=====

The content of package org.apache.commons.codec.language.bm has been translated
from the original php source code available at <http://stevemorse.org/phoneticinfo.htm>
with permission from the original authors.
Original source copyright:
Copyright (c) 2008 Alexander Beider & Stephen P. Morse.

=====

Apache Commons Logging
Copyright 2003-2014 The Apache Software Foundation

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

=====

Apache Commons Compress
Copyright 2002-2018 The Apache Software Foundation

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

The files in the package org.apache.commons.compress.archivers.sevenz
were derived from the LZMA SDK, version 9.20 (C/ and CPP/7zip/),
which has been placed in the public domain:

"LZMA SDK is placed in the public domain." (<http://www.7-zip.org/sdk.html>)

=====

Apache Commons Collections
Copyright 2001-2018 The Apache Software Foundation

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

```
=====
== NOTICE file corresponding to section 4(d) of the Apache License, ==
== Version 2.0, in this case for the Apache XmlBeans distribution. ==
=====
```

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) 2000-2003, BEA Systems, .

Aside from contributions to the Apache XMLBeans project, this
software also includes:

- one or more source files from the Apache Xerces-J and Apache Axis
products, Copyright (c) 1999-2003 Apache Software Foundation
- 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)
- resolver.jar from Apache Xml Commons project,
Copyright (c) 2001-2003 Apache Software Foundation

=====

Apache Commons Math
Copyright 2001-2019 The Apache Software Foundation

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

This product includes software developed for Orekit by
CS Systèmes d'Information (<http://www.c-s.fr/>)
Copyright 2010-2012 CS Systèmes d'Information



Vendor: JS Foundation and other contributors

URL for License and Copyright Notice - <https://raw.githubusercontent.com/jquery/jquery/3.4.0/LICENSE.txt>

Copyright JS Foundation and other contributors, <https://js.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.

====

All files located in the node_modules and external directories are externally maintained libraries used by this software which have their own licenses; we recommend you read them, as their terms may differ from the terms above.

-----<https://github.com/jquery/jquery/blob/3.4.0/external/npo/npo.js>-----

```
/*! Native Promise Only
    v0.8.1 (c) Kyle Simpson
    MIT License: http://getify.mit-license.org
*/
```

Javascript Extension Toolkit (JET)

Vendor: Oracle

Oracle JET 7.0.0

You may not use the identified files except in compliance with the Universal Permissive License (UPL), Version 1.0 (the "License.")

You may obtain a copy of the License at <https://opensource.org/licenses/UPL>. 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.

Copyright (c) 2014, 2018 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.

DO NOT TRANSLATE OR LOCALIZE.

Oracle elects to use only the GNU Lesser General Public License version 2.1
(LGPL) for any software where a choice of LGPL/GPL license versions are made
available with the language indicating that LGPLv2.1/GPLv2 or any later version
may be used, or where a choice of which version of the LGPL/GPL is applied is
unspecified.

THIRD-PARTY COMPONENT FILE (path in the installation)	LICENSE (see license text reproduced below)
js/libs/es6-promise/es6-promise.js	MIT
js/libs/hammer/hammer-2.0.8.js	MIT
js/libs/history/history.iegte8.js	MIT
js/libs/js-signals/signals.js	MIT
js/libs/jquery/jquery-3.4.1.js	MIT

```

js/libs/jquery/jquery-ui-1.12.1.custom.js MIT
js/libs/jquery/jqueryui-amd-1.12.1/core.js MIT
js/libs/jquery/jqueryui-amd-1.12.1/draggable.js MIT
js/libs/jquery/jqueryui-amd-1.12.1/mouse.js MIT
js/libs/jquery/jqueryui-amd-1.12.1/position.js MIT
js/libs/jquery/jqueryui-amd-1.12.1/sortable.js MIT
js/libs/jquery/jqueryui-amd-1.12.1/widget.js MIT
js/libs/knockout/knockout-3.5.0.js MIT
js/libs/knockout/knockout-mapping-latest.js MIT
js/libs/oj/v7.0.0/min/ojknockout.js (knockout-fast-foreach.js) MIT
js/libs/oj/v7.0.0/min/ojselectcombobox.js (Select2.js) Apache 2.0
js/libs/oj/v7.0.0/min/ojtree.js (jsTree.js) MIT
js/libs/oj/v7.0.0/ojL10n.js (requireJS i18n) MIT
js/libs/proj4js/dist/proj4.js Proj4js
js/libs/require/require.js MIT
js/libs/require/text.js MIT
js/libs/require-css/css.js (require-css) MIT
js/libs/webcomponents/custom-elements.min.js custom-
elements
scss/oj/v7.0.0/3rdparty/normalize/normalize.scss MIT
js/libs/touchr/touchr.js MIT

/*!
  Knockout Fast Foreach v0.6.0 (2016-07-28T11:02:54.197Z)
  By: Brian M Hunt (C) 2015 | License: MIT
*/

/**
 * webcomponents/custom-elements - v1.1.2
 *
 * Copyright (c) 2015 The Polymer Authors. 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.
 */

/*
 * proj4js - v2.5.0
 * http://proj4js.org/
 * Copyright (C) 2014 Mike Adair, Richard Greenwood, Didier Richard, Stephen

```

```
Irons, Olivier Terral and Calvin Metcalf;
* Licensed under the Proj4js license
*/

/*
* require-css - v0.1.10
* https://github.com/guybedford/require-css
* Copyright (C) 2013 Guy Bedford;
* Licensed under the MIT license
*/

/*! Hammer.JS - v2.0.4 - 2014-09-28
* http://hammerjs.github.io/
*
* Copyright (c) 2014 Jorik Tangelder;
* Licensed under the MIT license */

/*
* Foundation Responsive Library
* http://foundation.zurb.com
* Copyright 2014, ZURB
* Free to use under the MIT license.
* http://www.opensource.org/licenses/mit-license.php
*/

Normalize.scss
Copyright (c) Nicolas Gallagher and Jonathan Neal

/*
RequireJS i18n 2.0.2 Copyright (c) 2010-2012, The Dojo Foundation All Rights
Reserved.
Available via the MIT or new BSD license.
see: http://github.com/requirejs/i18n for details
*/

/* This component is based on original code from:
jsTree 1.0-rc3 http://jstree.com/
"Copyright (c) 2010 Ivan Bozhanov (vakata.com)
Licensed same as jquery - under the terms of either the MIT License or
the GPL Version 2 License
http://www.opensource.org/licenses/mit-license.php
http://www.gnu.org/licenses/gpl.html"
*/

ES6-Promise v1.0.0
Copyright (c) 2014 Yehuda Katz, Tom Dale, Stefan Penner and contributors

/*! jQuery UI - v1.12.1 - 2015-03-18
* http://jqueryui.com
* Includes: core.js, widget.js, mouse.js, position.js, draggable.js, sortable.js
* Copyright 2015 jQuery Foundation and other contributors; Licensed MIT */

/*!
* jQuery JavaScript Library v3.4.1
* http://jquery.com/
*
* Includes Sizzle.js
```

```

* http://sizzlejs.com/
*
* Copyright 2005, 2014 jQuery Foundation, Inc. and other contributors
* Released under the MIT license
* http://jquery.org/license
*
* Date: 2014-12-18T15:11Z
*/

/** @license
 * JS Signals
 * Released under the MIT license
 * Author: Miller Medeiros
 * Version: 1.0.0 - Build: 268 (2012/11/29 05:48 PM)
 */

/**
 * @license RequireJS text 2.0.12 Copyright (c) 2010-2014, The Dojo Foundation
All Rights Reserved.
 * Available via the MIT or new BSD license.
 * see: http://github.com/requirejs/text for details
 */

/*
RequireJS 2.1.16 Copyright (c) 2010-2015, The Dojo Foundation All Rights
Reserved.
Available via the MIT or new BSD license.
see: http://github.com/jrburke/requirejs for details
*/

/*!
 * Knockout JavaScript library v3.5.0
 * (c) Steven Sanderson - http://knockoutjs.com/
 * License: MIT (http://www.opensource.org/licenses/mit-license.php)
 */

```

```

===
=====
===== Apache-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.

===
=====
===== MIT =====

The MIT License

Copyright (c) __YEARS__, __NAMES__

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.

===
=====
===== Proj4js =====
Mike Adair madairATdmsolutions.ca
Richard Greenwood richATgreenwoodmap.com
Didier Richard didier.richardATign.fr
Stephen Irons stephen.ironsATclear.net.nz
Olivier Terral oterralATgmail.com
Calvin Metcalf cmetcalfATappgeo.com

Copyright (c) 2014, Mike Adair, Richard Greenwood, Didier Richard, Stephen
Irons, Olivier Terral and Calvin Metcalf

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.

Protovis

Vendor: Stanford Visualization Group

Include the following verbatim in the documentation:

Copyright (c) 2010, Stanford Visualization Group
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 Stanford 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.

Visquick

Vendor: Institute for Systems Biology

Copyright (c) 2010, Institute for Systems Biology
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 for Systems Biology 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

Oracle Labs Data Studio third party licenses and notices

Oracle Healthcare Translational Research leverages Oracle Labs Data Studio technology. This appendix provides third-party licenses and notices for that product. This appendix includes:

- [ACE Code Editor for the the Web](#)
- [bluebird](#)
- [commonmark-java](#)
- [Commons IO](#)
- [Commons Lang](#)
- [cx_Oracle](#)
- [cytoscape.js](#)
- [D3](#)
- [dagre](#)
- [fetch](#)
- [fuse.js](#)
- [Guava](#)
- [jackson-databind](#)
- [jackson-dataformat-yaml](#)
- [jackson-datatype-jsr310](#)
- [jackson-module-parameter-names](#)
- [JavaScript Extension Toolkit \(JET\)](#)
- [jQuery](#)
- [kubernetes-client](#)
- [Liquibase](#)
- [lodash](#)
- [matplotlib](#)
- [NumPy](#)
- [pandas](#)
- [pip](#)
- [py4j](#)
- [Simple Logging Facade for Java \(SLF4J\)](#)
- [SockJS client](#)

- [Spring Boot](#)
- [Spring Retry](#)
- [Springfox](#)
- [STOMP.js](#)
- [three.js](#)
- [Thrift](#)
- [Zeppelin](#)

ACE Code Editor for the the Web

Vendor: ACE - Open Source Community

Copyright (c) 2010, Ajax.org B.V.
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 Ajax.org B.V. 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 AJAX.ORG B.V. 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.

bluebird

Vendor: Petka Antonov

The MIT License (MIT)

Copyright (c) 2013-2018 Petka Antonov

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.

commonmark-java

Vendor: Atlassian.

Copyright (c) 2015-2016, Atlassian 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.

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.

Commons IO

Vendor: The Apache Software Foundation

Apache Commons IO
Copyright 2002-2016 The Apache Software Foundation

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

The Apache license appears in [Apache POI](#).

Commons Lang

Vendor: The Apache Software Foundation

The Apache license appears in [Apache POI](#).

COPYRIGHT:

Ships with following notice file:

Apache Commons Lang
Copyright 2001-2018 The Apache Software Foundation

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

cx_Oracle

Vendor: Anthony Tuininga

LICENSE AGREEMENT FOR CX_ORACLE

Copyright 2016, 2018, Oracle and/or its affiliates. All rights reserved.

Portions Copyright 2007-2015, Anthony Tuininga. All rights reserved.

Portions Copyright 2001-2007, Computronix (Canada) Ltd., Edmonton, Alberta,
Canada. 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 disclaimer that follows.
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 names of the copyright holders nor the names of any contributors may be used to endorse or promote products derived from this software without specific prior written permission.

DISCLAIMER: 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.

Computronix is a registered trademark of Computronix (Canada) Ltd.

cytoscape.js

Vendor: Cytoscape Consortium

Cytoscape.js v. 3.2.16
Source URL: <https://github.com/cytoscape/cytoscape.js/tree/v3.2.16>
MIT License & Copyright
<https://github.com/cytoscape/cytoscape.js/blob/v3.2.16/LICENSE>
Copyright (c) 2016 The Cytoscape 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 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.

D3.JS (fourth party dependency)
<https://github.com/d3/d3/blob/master/LICENSE>
Copyright 2010-2016 Mike 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 author nor 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 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. Copyright (c) 2016-2018, The Cytoscape 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 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.

Fourth party dependencies***

Heap v. 0.2.6

Source url: <https://github.com/qiao/heap.js/tree/0.2.6>

License PSF (other)

License and copyright URL:<https://github.com/qiao/heap.js/blob/0.2.6/README.md>

Ported by Xueqiao Xu

PSF LICENSE AGREEMENT FOR PYTHON 2.7.2

This LICENSE AGREEMENT is between the Python Software Foundation ("PSF"), and the Individual or Organization ("Licensee") accessing and otherwise using Python 2.7.2 software in source or binary form and its associated documentation.

Subject to the terms and conditions of this License Agreement, PSF hereby grants Licensee a nonexclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use Python 2.7.2 alone or in any derivative version, provided, however, that PSF's License Agreement and PSF's notice of copyright, i.e., "Copyright © 2001-2012 Python Software Foundation; All Rights Reserved" are retained in Python 2.7.2 alone or in any derivative version prepared by Licensee.

In the event Licensee prepares a derivative work that is based on or incorporates Python 2.7.2 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 2.7.2.

PSF is making Python 2.7.2 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 2.7.2 WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON 2.7.2 FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON 2.7.2, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

This License Agreement will automatically terminate upon a material breach of its terms and conditions.

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.

By copying, installing or otherwise using Python 2.7.2, Licensee agrees to be bound by the terms and conditions of this License Agreement.

lodash.debounce v. 4.17.10

Source url: <https://github.com/lodash/lodash/tree/4.17.10>

License URL: <https://github.com/lodash/lodash/blob/4.17.10/LICENSE>

Copyright JS Foundation and other contributors

Based on Underscore.js, copyright Jeremy Ashkenas,
DocumentCloud and Investigative Reporters & Editors

This software consists of voluntary contributions made by many individuals. For exact contribution history, see the revision history available at <https://github.com/lodash/lodash>

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.

====

Copyright and related rights for sample code are waived via CC0. Sample code is defined as all source code displayed within the prose of the documentation.

CC0: <http://creativecommons.org/publicdomain/zero/1.0/>

====

Files located in the node_modules and vendor directories are externally maintained libraries used by this software which have their own licenses; we recommend you read them, as their terms may differ from the terms above.

D3

Vendor: Michael Bostock

D3 v5.12.0

=====

TOP-LEVEL LICENSE: BSD-3-Clause

Copyright 2010-2017 Mike 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 author nor 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 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.

FOURTH PARTY DEPENDENCIES

LIBRARY NAME	LICENSE (see license text below)
-----	-----
d3-array	BSD-3-Clause
d3-axis	BSD-3-Clause
d3-brush	BSD-3-Clause
d3-chord	BSD-3-Clause
d3-collection	BSD-3-Clause
d3-color	BSD-3-Clause
d3-contour	BSD-3-Clause
d3-dispatch	BSD-3-Clause
d3-drag	BSD-3-Clause
d3-dsv	BSD-3-Clause
commander	MIT
iconv-lite	MIT
safer-buffer	MIT
rw	BSD-3-Clause
d3-ease	BSD-3-Clause
d3-fetch	BSD-3-Clause
d3-force	BSD-3-Clause
d3-format	BSD-3-Clause
d3-geo	BSD-3-Clause
d3-hierarchy	BSD-3-Clause
d3-interpolate	BSD-3-Clause
d3-path	BSD-3-Clause
d3-polygon	BSD-3-Clause
d3-quadtree	BSD-3-Clause
d3-random	BSD-3-Clause
d3-scale	BSD-3-Clause
d3-scale-chromatic	BSD-3-Clause
d3-selection	BSD-3-Clause
d3-shape	BSD-3-Clause
d3-time	BSD-3-Clause
d3-time-format	BSD-3-Clause
d3-timer	BSD-3-Clause
d3-transition	BSD-3-Clause
d3-voronoi	BSD-3-Clause
d3-zoom	BSD-3-Clause

COPYRIGHT NOTICES

d3-array:
Copyright 2010-2018 Mike Bostock

d3-axis:
Copyright 2010-2016 Mike Bostock

d3-brush:
Copyright 2010-2016 Mike Bostock

d3-chord:
Copyright 2010-2016 Mike Bostock

d3-collection:
Copyright 2010-2016, Mike Bostock

d3-color:
Copyright 2010-2016 Mike Bostock

d3-contour:
Copyright 2012-2017 Mike Bostock

d3-dispatch:
Copyright 2010-2016 Mike Bostock

d3-drag:
Copyright 2010-2016 Mike Bostock

d3-dsv:
Copyright 2013-2016 Mike Bostock

commander:
Copyright (c) 2011 TJ Holowaychuk

iconv-lite:
Copyright (c) 2011 Alexander Shtuchkin

safer-buffer:
Copyright (c) 2018 Nikita Skovoroda

rw:
Copyright (c) 2014-2016, Michael Bostock

d3-ease:
Copyright 2010-2016 Mike Bostock
Copyright 2001 Robert Penner

d3-fetch:
Copyright 2016 Mike Bostock

d3-force:
Copyright 2010-2016 Mike Bostock

d3-format:
Copyright 2010-2015 Mike Bostock

d3-geo:
Copyright 2010-2016 Mike Bostock

d3-hierarchy:

Copyright 2010-2016 Mike Bostock

d3-interpolate:
Copyright 2010-2016 Mike Bostock

d3-path:
Copyright 2015-2016 Mike Bostock

d3-polygon:
Copyright 2010-2016 Mike Bostock

d3-quadtree:
Copyright 2010-2016 Mike Bostock

d3-random:
Copyright 2010-2016 Mike Bostock

d3-scale:
Copyright 2010-2015 Mike Bostock

d3-scale-chromatic:
Copyright 2010-2018 Mike Bostock

d3-selection:
Copyright (c) 2010-2018, Michael Bostock

d3-shape:
Copyright 2010-2015 Mike Bostock

d3-time:
Copyright 2010-2016 Mike Bostock

d3-time-format:
Copyright 2010-2017 Mike Bostock

d3-timer:
Copyright 2010-2016 Mike Bostock

d3-transition:
Copyright 2010-2016 Mike Bostock

d3-voronoi:
Copyright 2010-2016 Mike Bostock

d3-zoom:
Copyright 2010-2016 Mike Bostock

BSD-3-Clause

Copyright

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 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.

MIT

Copyright

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.

dagre

Vendor: Chris Pettitt

Copyright (c) 2012-2014 Chris Pettitt

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.

Lodash 4.17.15
Copyright OpenJS Foundation and other contributors

Based on Underscore.js, copyright Jeremy Ashkenas,
DocumentCloud and Investigative Reporters & Editors

This software consists of voluntary contributions made by many individuals. For exact contribution history, see the revision history available at <https://github.com/lodash/lodash>

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.

====

Copyright and related rights for sample code are waived via CC0. Sample code is defined as all source code displayed within the prose of the documentation.

CC0: <http://creativecommons.org/publicdomain/zero/1.0/>

====

Files located in the node_modules and vendor directories are externally maintained libraries used by this software which have their own licenses; we recommend you read them, as their terms may differ from the terms above.

graphlib 2.1.8

Copyright (c) 2012-2014 Chris Pettitt

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.

fetch

Vendor: GitHub

<https://github.com/github/fetch/blob/v2.0.3/LICENSE>
(no 4th party dependencies)

Copyright (c) 2014-2016 GitHub, 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.

fuse.js

Vendor: Kirollos Risk

fuse.js v. 3.2.1
Source URL: <https://github.com/krisk/Fuse/tree/v3.2.1>
license URL: <https://github.com/krisk/Fuse/blob/v3.2.1/LICENSE>

The Apache license appears in [Apache POI](#).

Copyright 2017 Kirollos Risk

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 URL: <https://github.com/krisk/Fuse/blob/v3.2.1/COPYRIGHT.txt>
Fuse.js {VERSION} - Lightweight fuzzy-search ({HOMEPAGE})

Copyright (c) 2012-2017 Kirollos Risk ({AUTHOR_URL})
All Rights Reserved. Apache Software License 2.0

<http://www.apache.org/licenses/LICENSE-2.0>
(NO 4th party dependencies)

Guava

Vendor: Google

The Apache license appears in [Apache POI](#).

jackson-databind

Vendor: FasterXML, LLC

Jackson Databind
Copyright (c) 2019 Tatu Saloranta

The Apache license appears in [Apache POI](#).

COPYRIGHT NOTICE
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.

-----jackson-core 2.10.0 -----
COPYRIGHT: Copyright (c) 2007- Tatu Saloranta, tatu.saloranta@iki.fi
LICENSE: Apache 2.0

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.

-----jackson-annotations 2.10.0 -----
COPYRIGHT: Copyright (c) 2007- Tatu Saloranta, tatu.saloranta@iki.fi
LICENSE: Apache 2.0

jackson-dataformat-yaml

Vendor: FasterXML, LLC

```
jackson-dataformat-yaml 2.10.0
copyright: [1]
license: [3]
```

```
snakeyaml 1.24
copyright: [2]
license: [3]
```

```
====BEGIN REFERENCE[1]====
```

This copy of Jackson JSON processor YAML module 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
====END REFERENCE[1]====
```

```
====BEGIN REFERENCE[2]====
```

```
/**
 * Copyright (c) 2008, http://www.snakeyaml.org
 *
 * 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.
 */
====END REFERENCE[2]====
```

```
====BEGIN REFERENCE[3]====
```

The Apache license appears in [Apache POI](#).

4TH Party Dependency : snakeyaml

```
license: Apache 2.0
-----
```

The Apache license appears in [Apache POI](#).

```
====END REFERENCE[3]====
```

jackson-datatype-jsr310

Vendor: FasterXML, LLC

```
jackson-datatype-jsr310 2.10.0

COPYRIGHT: [1]
LICENSE: [3]

Fourth party dependencies

jackson-annotations 2.10.0

COPYRIGHT: [2]
LICENSE: [3]

====BEGIN REFERENCE [1]====
/*
 * Copyright 2013 FasterXML.com
 *
 * 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.
 */
====END REFERENCE [1]====

====BEGIN REFERENCE [2]====
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
====END REFERENCE [2]====

====BEGIN REFERENCE [3]====

The Apache license appears in Apache POI.

====END REFERENCE [3]====
```

jackson-module-parameter-names

Vendor: FasterXML, LLC

The Apache license appears in [Apache POI](#).

JavaScript Extension Toolkit (JET)

Vendor: Oracle

Oracle JET 8.0.0

You may not use the identified files except in compliance with the Universal Permissive License (UPL), Version 1.0 (the "License.")

You may obtain a copy of the License at <https://opensource.org/licenses/UPL>. 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.

Copyright (c) 2014, 2019 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.

DO NOT TRANSLATE OR LOCALIZE.

```
*****
Oracle elects to use only the GNU Lesser General Public License version 2.1
(LGPL) for any software where a choice of LGPL/GPL license versions are made
available with the language indicating that LGPLv2.1/GPLv2 or any later version
may be used, or where a choice of which version of the LGPL/GPL is applied is
unspecified.
*****
```

```
THIRD-PARTY COMPONENT FILE                                LICENSE
(path in the installation)                                (see license text reproduced below)
-----
```

```
js/libs/es6-promise/es6-promise.js                      MIT
js/libs/hammer/hammer-2.0.8.js                         MIT
js/libs/history/history.iegte8.js                      MIT
js/libs/js-signals/signals.js                          MIT
js/libs/jquery/jquery-3.4.1.js                        MIT
js/libs/jquery/jquery-ui-1.12.1.custom.js             MIT
js/libs/jquery/jqueryui-amd-1.12.1/core.js           MIT
js/libs/jquery/jqueryui-amd-1.12.1/draggable.js       MIT
js/libs/jquery/jqueryui-amd-1.12.1/mouse.js          MIT
js/libs/jquery/jqueryui-amd-1.12.1/position.js       MIT
js/libs/jquery/jqueryui-amd-1.12.1/sortable.js       MIT
js/libs/jquery/jqueryui-amd-1.12.1/widget.js         MIT
js/libs/knockout/knockout-3.5.0.js                   MIT
js/libs/knockout/knockout-mapping-latest.js          MIT
js/libs/oj/v7.1.0/min/ojknockout.js (knockout-fast-foreach.js) MIT
js/libs/oj/v7.1.0/min/ojselectcombobox.js (Select2.js) Apache 2.0
js/libs/oj/v7.1.0/min/ojtree.js (jsTree.js)           MIT
js/libs/oj/v7.1.0/ojL10n.js (requireJS il8n)          MIT
js/libs/proj4js/dist/proj4.js                          Proj4js
js/libs/require/require.js                             MIT
js/libs/require/text.js                               MIT
js/libs/require-css/css.js (require-css)              MIT
js/libs/webcomponents/custom-elements.min.js         custom-
elements
scss/oj/v7.1.0/3rdparty/normalize/normalize.scss       MIT
js/libs/touchr/touchr.js                              MIT
```

```
/*!
Knockout Fast Foreach v0.6.0 (2016-07-28T11:02:54.197Z)
By: Brian M Hunt (C) 2015 | License: MIT
*/
```

```
/**
 * webcomponents/custom-elements - v1.1.2
 *
 * Copyright (c) 2015 The Polymer Authors. 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.
 */

/*
 * proj4js - v2.5.0
 * http://proj4js.org/
 * Copyright (C) 2014 Mike Adair, Richard Greenwood, Didier Richard, Stephen
Irons, Olivier Terral and Calvin Metcalf;
 * Licensed under the Proj4js license
 */

/*
 * require-css - v0.1.10
 * https://github.com/guybedford/require-css
 * Copyright (C) 2013 Guy Bedford;
 * Licensed under the MIT license
 */

/*! Hammer.JS - v2.0.4 - 2014-09-28
 * http://hammerjs.github.io/
 *
 * Copyright (c) 2014 Jorik Tangelder;
 * Licensed under the MIT license */

/*
 * Foundation Responsive Library
 * http://foundation.zurb.com
 * Copyright 2014, ZURB
 * Free to use under the MIT license.
 * http://www.opensource.org/licenses/mit-license.php
 */

Normalize.scss
Copyright (c) Nicolas Gallagher and Jonathan Neal

/*
RequireJS i18n 2.0.2 Copyright (c) 2010-2012, The Dojo Foundation All Rights
Reserved.
Available via the MIT or new BSD license.
see: http://github.com/requirejs/i18n for details
*/

/* This component is based on original code from:
jsTree 1.0-rc3 http://jstree.com/
"Copyright (c) 2010 Ivan Bozhanov (vakata.com)
Licensed same as jquery - under the terms of either the MIT License or
the GPL Version 2 License
http://www.opensource.org/licenses/mit-license.php
http://www.gnu.org/licenses/gpl.html"
*/
```

```
ES6-Promise v1.0.0
Copyright (c) 2014 Yehuda Katz, Tom Dale, Stefan Penner and contributors

/*! jQuery UI - v1.12.1 - 2015-03-18
 * http://jqueryui.com
 * Includes: core.js, widget.js, mouse.js, position.js, draggable.js, sortable.js
 * Copyright 2015 jQuery Foundation and other contributors; Licensed MIT */

/*!
 * jQuery JavaScript Library v3.4.1
 * http://jquery.com/
 *
 * Includes Sizzle.js
 * http://sizzlejs.com/
 *
 * Copyright 2005, 2014 jQuery Foundation, Inc. and other contributors
 * Released under the MIT license
 * http://jquery.org/license
 *
 * Date: 2014-12-18T15:11Z
 */

/** @license
 * JS Signals
 * Released under the MIT license
 * Author: Miller Medeiros
 * Version: 1.0.0 - Build: 268 (2012/11/29 05:48 PM)
 */

/**
 * @license RequireJS text 2.0.12 Copyright (c) 2010-2014, The Dojo Foundation
All Rights Reserved.
 * Available via the MIT or new BSD license.
 * see: http://github.com/requirejs/text for details
 */

/*
RequireJS 2.1.16 Copyright (c) 2010-2015, The Dojo Foundation All Rights
Reserved.
Available via the MIT or new BSD license.
see: http://github.com/jrburke/requirejs for details
*/

/*!
 * Knockout JavaScript library v3.5.0
 * (c) Steven Sanderson - http://knockoutjs.com/
 * License: MIT (http://www.opensource.org/licenses/mit-license.php)
 */

===
=====
===== Apache-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.

The Apache license appears in [Apache POI](#).

```
===  
=====  
===== MIT =====
```

The MIT License

Copyright (c) __YEARS__, __NAMES__

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.

```
===  
=====  
===== Proj4js =====  
Mike Adair madairATdmsolutions.ca  
Richard Greenwood richATgreenwoodmap.com  
Didier Richard didier.richardATign.fr  
Stephen Irons stephen.ironstclear.net.nz  
Olivier Terral oterralATgmail.com  
Calvin Metcalf cmetcalfATappgeo.com
```

Copyright (c) 2014, Mike Adair, Richard Greenwood, Didier Richard, Stephen Irons, Olivier Terral and Calvin Metcalf

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.



Vendor: JS Foundation and other contributors

URL for License and Copyright Notice - <https://raw.githubusercontent.com/jquery/jquery/3.4.1/LICENSE.txt>

Copyright JS Foundation and other contributors, <https://js.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.

====

All files located in the node_modules and external directories are externally maintained libraries used by this software which have their own licenses; we recommend you read them, as their terms may differ from the terms above.

-----<https://github.com/jquery/jquery/blob/3.4.0/external/npo/npo.js>-----

```

/!* Native Promise Only
   v0.8.1 (c) Kyle Simpson
   MIT License: http://getify.mit-license.org
*/

```

The MIT license text @ <https://getify.mit-license.org/>

The MIT License (MIT)
Copyright © 2019 Kyle Simpson

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.

kubernetes-client

Vendor: Red Hat Inc.

Modules:

```
io.fabric8:kubernetes-client:4.7.1
io.fabric8:kubernetes-model:4.7.1
io.fabric8:kubernetes-model-common:4.7.1
License: Apache 2.0
License: [0]
Copyright: [1]
```

Fourth party dependencies:

```
Dependency: com.fasterxml.jackson.module:jackson-module-jaxb-annotations:2.10.1
License: Apache 2.0
License: [0]
Copyright: [2]
```

```
Dependency: com.fasterxml.jackson.core:jackson-annotations:2.9.0
License: Apache 2.0
License: [0]
Copyright: [2]
```

```
Dependency: com.fasterxml.jackson.core:jackson-core:2.10.1
License: Apache 2.0
License: [0]
Copyright: [2]
```

```
Dependency: com.fasterxml.jackson.core:jackson-databind:2.10.1
License: Apache 2.0
License: [0]
Copyright: [2]
```

```
Dependency: com.fasterxml.jackson.dataformat:jackson-dataformat-yaml:2.10.1
License: Apache 2.0
License: [0]
```

Copyright: [2]

Dependency: com.squareup.okhttp3:okhttp:3.12.6
License: Apache 2.0
License: [0]
Copyright: [3]

Dependency: com.squareup.okio:okio:1.15.0
License: Apache 2.0
License: [0]
Copyright: [5]

Dependency: com.squareup.okhttp3:logging-interceptor:3.12.6
License: Apache 2.0
License: [0]
Copyright: [4]

Dependency: org.slf4j:jul-to-slf4j:1.7.30
License: MIT
License: [5]
Copyright: [2]

Dependency: io.fabric8:zjsonpatch:0.3.0
License: Apache 2.0
License: [0]
Copyright: [2]

Dependency: com.github.mifmif:generex:1.0.2
License: Apache 2.0
License: [0]
Copyright: [6]

Dependency: dk.brics.automaton:automaton:1.11-8
License: BSD 2-Clause
License: [7]
Copyright: [2]

++++
+++++ References +++++
++++

===== Start of Reference [0] =====

The Apache license appears in [Apache POI](#).

===== End of Reference [0] =====

===== Start of Reference [1] =====

```
/** * Copyright (C) 2015 Red Hat, 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. */
```

===== End of Reference [1] =====

===== Start of Reference [2] =====

No Copyright Notice

===== End of Reference [2] =====

===== Start of Reference [3] =====

```
/*
 * Copyright (C) 2018 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.
 */
```

===== End of Reference [3] =====

===== Start of Reference [4] =====

```
/*
 * Copyright (C) 2019 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.
 */
```

===== End of Reference [4] =====

===== Start of Reference [5] =====

```
Copyright (c) 2004-2017 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.
```

===== End of Reference [5] =====

===== Start of Reference [6] =====

```
/* * Copyright 2014 y.mifrah * * * 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. */
===== End of Reference [6] =====

```

```

===== Start of Reference [7] =====
Copyright (c) 2001-2017 Anders Moeller 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 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.
===== End of Reference [7] =====

```

Liquibase

Vendor: Nathan Voxland

Copyright © 2016 Liquibase.org. All rights reserved.

The Apache license appears in [Apache POI](#).

```

=====
Fourth-party dependencies are as follows:

```

```
slf4j-api
```

```

Licensing terms for SLF4J
SLF4J source code and binaries are distributed under the MIT license.

```

```

Copyright (c) 2004-2017 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.

lodash

Vendor: OpenJS Foundation

Copyright OpenJS Foundation and other contributors
-----separator-----

Based on Underscore.js, copyright Jeremy Ashkenas, DocumentCloud and Investigative Reporters & Editors

This software consists of voluntary contributions made by many individuals. For exact contribution history, see the revision history available at <https://github.com/lodash/lodash>

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.

====

Copyright and related rights for sample code are waived via CC0. Sample code is defined as all source code displayed within the prose of the documentation.

CC0: <http://creativecommons.org/publicdomain/zero/1.0/>

====

Files located in the node_modules and vendor directories are externally maintained libraries used by this software which have their own licenses; we recommend you read them, as their terms may differ from the terms above.

-----separator-----

matplotlib

Vendor: Matplotlib Development Team

matplotlib 3.1.3

License agreement for matplotlib versions 1.3.0 and later

=====

1. This LICENSE AGREEMENT is between the Matplotlib Development Team ("MDT"), and the Individual or Organization ("Licensee") accessing and otherwise using matplotlib software in source or binary form and its associated documentation.
 2. Subject to the terms and conditions of this License Agreement, MDT hereby grants Licensee a nonexclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use matplotlib alone or in any derivative version, provided, however, that MDT's License Agreement and MDT's notice of copyright, i.e., "Copyright (c) 2012- Matplotlib Development Team; All Rights Reserved" are retained in matplotlib alone or in any derivative version prepared by Licensee.
 3. In the event Licensee prepares a derivative work that is based on or incorporates matplotlib 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 matplotlib .
 4. MDT is making matplotlib available to Licensee on an "AS IS" basis. MDT MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, MDT MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF MATPLOTLIB WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.
 5. MDT SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF MATPLOTLIB FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING MATPLOTLIB , 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 MDT and Licensee. This License Agreement does not grant permission to use MDT 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 matplotlib , Licensee agrees to be bound by the terms and conditions of this License Agreement.
- License agreement for matplotlib versions prior to 1.3.0

=====

1. This LICENSE AGREEMENT is between John D. Hunter ("JDH"), and the Individual or Organization ("Licensee") accessing and otherwise using matplotlib software in source or binary form and its associated documentation.
2. Subject to the terms and conditions of this License Agreement, JDH hereby grants Licensee a nonexclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use matplotlib alone or in any derivative version, provided, however, that JDH's License Agreement and JDH's notice of copyright, i.e., "Copyright (c) 2002-2011 John D. Hunter; All Rights Reserved" are retained in matplotlib alone or in any derivative version prepared by Licensee.
3. In the event Licensee prepares a derivative work that is based on or incorporates matplotlib 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 matplotlib.
4. JDH is making matplotlib available to Licensee on an "AS IS"

basis. JDH MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, JDH MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF MATPLOTLIB WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

5. JDH SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF MATPLOTLIB FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING MATPLOTLIB , 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 JDH and Licensee. This License Agreement does not grant permission to use JDH 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 matplotlib, Licensee agrees to be bound by the terms and conditions of this License Agreement.

Python Imaging Library (PIL):4a3f033

The Python Imaging Library (PIL) is Copyright © 1997-2011 by Secret Labs AB Copyright © 1995-2011 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.

____ AMSFONTS:4a3f033

Copyright (c) 1997, 2009, American Mathematical Society (<http://www.ams.org>). All Rights Reserved.

"cmb10" is a Reserved Font Name for this Font Software.
"cmbsy10" is a Reserved Font Name for this Font Software.
"cmbsy5" is a Reserved Font Name for this Font Software.
"cmbsy6" is a Reserved Font Name for this Font Software.
"cmbsy7" is a Reserved Font Name for this Font Software.
"cmbsy8" is a Reserved Font Name for this Font Software.
"cmbsy9" is a Reserved Font Name for this Font Software.
"cmbx10" is a Reserved Font Name for this Font Software.
"cmbx12" is a Reserved Font Name for this Font Software.
"cmbx5" is a Reserved Font Name for this Font Software.
"cmbx6" is a Reserved Font Name for this Font Software.
"cmbx7" is a Reserved Font Name for this Font Software.
"cmbx8" is a Reserved Font Name for this Font Software.
"cmbx9" is a Reserved Font Name for this Font Software.
"cmbxsl10" is a Reserved Font Name for this Font Software.

"msbm9" is a Reserved Font Name for this Font Software.
"wncyb10" is a Reserved Font Name for this Font Software.
"wncyi10" is a Reserved Font Name for this Font Software.
"wncyrl10" is a Reserved Font Name for this Font Software.
"wncysc10" is a Reserved Font Name for this Font Software.
"wncyss10" is a Reserved Font Name for this Font Software.

This Font Software is licensed under the SIL Open Font License, Version 1.1. This license is copied below, and is also available with a FAQ at: <http://scripts.sil.org/OFL>

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.

_____ BaKoMa Fonts:4a3f033 Copyright (C) 1994, 1995, Basil K. Malyshev.
 All Rights Reserved BaKoMa Fonts Licence -----

This licence covers two font packs (known as BaKoMa Fonts Colelction, which is available at `CTAN:fonts/cm/ps-typel/bakoma/`):

1) BaKoMa-CM (1.1/12-Nov-94) Computer Modern Fonts in PostScript Type 1 and TrueType font formats.

2) BaKoMa-AMS (1.2/19-Jan-95) AMS TeX fonts in PostScript Type 1 and TrueType font formats. Copyright (C) 1994, 1995, Basil K. Malyshev. All Rights Reserved. Permission to copy and distribute these fonts for any purpose is hereby granted without fee, provided that the above copyright notice, author statement and this permission notice appear in all copies of these fonts and related documentation. Permission to modify and distribute modified fonts for any purpose

is hereby granted without fee, provided that the copyright notice, author statement, this permission notice and location of original fonts (<http://www.ctan.org/tex-archive/fonts/cm/ps-typel/bakoma>) appear in all copies of modified fonts and related documentation. Permission to use these fonts (embedding into PostScript, PDF, SVG and printing by using any software) is hereby

granted without fee. It is not required to provide any notices about using these fonts. Basil K. Malyshev INSTITUTE FOR HIGH ENERGY PHYSICS IHEP, OMT Moscow Region 142281 PROTVINO RUSSIA E-Mail: bakoma@mail.ru or malyshev@mail.ihep.ru carlogo font:4a3f033 Copyright (c) 2010-2013 by tyPoland Lukasz Dziejdzic with Reserved Font Name "Carlito". This Font Software is licensed under the SIL Open Font License, Version 1.1. This license is copied below, and is also available with a FAQ at: <http://scripts.sil.org/OFL>

 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.

_____ Colorbrewer colormap:4a3f033
Apache-Style Software License for
ColorBrewer Color Schemes Version 1.1 Copyright (c) 2002 Cynthia Brewer,
Mark Harrower, and The Pennsylvania State 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:

1. Redistributions as source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. The end-user documentation included with the redistribution, if any, must include the following acknowledgment: "This product includes color specifications and designs developed by Cynthia Brewer (<http://colorbrewer.org/>)."
Alternately, this acknowledgment may appear in the software itself, if and wherever such third-party acknowledgments normally appear.
3. The name "ColorBrewer" must not be used to endorse or promote products derived from this software without prior written permission. For written permission,
please contact Cynthia Brewer at cbrewer@psu.edu.
4. Products derived from this software may not be called "ColorBrewer", nor may "ColorBrewer" appear in their name, without prior written permission of Cynthia Brewer.

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 CYNTHIA BREWER, MARK HARROWER, OR THE PENNSYLVANIA STATE UNIVERSITY 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.

_____ JQuery:1.11.3-1.11.4 * jQuery JavaScript Library v1.11.3
* <http://jquery.com/> *
* Includes Sizzle.js * <http://sizzlejs.com/> *
* Copyright 2005, 2014 jQuery Foundation, Inc. and other contributors *
Released under the MIT license * <http://jquery.org/license> *
* Date: 2015-04-28T16:19Z Copyright 2005, 2014 jQuery Foundation, Inc. and other 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.

_____ PyQt4:1.0.5
Copyright (c) 2009 Pierre Raybaut 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.

_____ STIX (font):4a3f033
Copyright (c) 2001-2005 by the STI Pub Companies,
consisting of the American Institute of Physics, the American Chemical Society,
the
American Mathematical Society, the American Physical Society, Elsevier, Inc.,
and
The Institute of Electrical and Electronic Engineers, Inc. Portions copyright
(c)
1998-2003 by MicroPress, Inc. Portions copyright (c) 1990 by Elsevier, Inc. All
rights reserved. STIX Fonts-TM is a trademark of The Institute of Electrical and
Electronics Engineers, Inc.

TERMS AND CONDITIONS

1. Permission is hereby granted, free of charge, to any person obtaining a copy of the STIX Fonts-TM set accompanying this license (collectively, the "Fonts") and the associated documentation files (collectively with the Fonts, the "Font Software"), to reproduce and distribute the Font Software, including the rights to use, copy, merge and publish copies of the Font Software, and to permit persons to whom the Font Software is furnished to do so same, subject to the following terms and conditions (the "License").
2. The following copyright and trademark notice and these Terms and Conditions shall be included in all copies of one or more of the Font typefaces and any derivative work created as permitted under this License:
Copyright (c) 2001-2005 by the STI Pub Companies, consisting of the American Institute of Physics, the American Chemical Society, the American Mathematical Society, the American Physical Society, Elsevier, Inc., and The Institute of Electrical and Electronic Engineers, Inc. Portions copyright (c) 1998-2003 by MicroPress, Inc. Portions copyright (c) 1990 by Elsevier, Inc. All rights reserved. STIX Fonts-TM is a trademark of The Institute of Electrical and Electronics Engineers, Inc.
3. You may (a) convert the Fonts from one format to another (e.g., from TrueType to PostScript), in which case the normal and reasonable distortion that occurs during such conversion shall be permitted and (b) embed or include a subset of the Fonts in a document for the purposes of allowing users to read text in the document that utilizes the Fonts. In each case, you may use the STIX Fonts-TM mark to designate the resulting Fonts or subset of the Fonts.
4. You may also (a) add glyphs or characters to the Fonts, or modify the shape of existing glyphs, so long as the base set of glyphs is not removed and (b) delete glyphs or characters from the Fonts, provided that the resulting font set is distributed with the following disclaimer: "This [name] font does not include all the Unicode points covered in the STIX Fonts-TM set but may include others." In each case, the name used to denote the resulting font set shall not include the term "STIX" or any similar term.
5. You may charge a fee in connection with the distribution of the Font

Software,
provided that no copy of one or more of the individual Font typefaces that form the STIX Fonts-TM set may be sold by itself.

6. 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 MICROPRESS OR ANY OF THE STI PUB COMPANIES BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, INCLUDING, BUT NOT LIMITED TO, ANY GENERAL, SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM OR OUT OF THE USE OR INABILITY TO USE THE FONT SOFTWARE OR FROM OTHER DEALINGS IN THE FONT SOFTWARE.

7. Except as contained in the notice set forth in Section 2, the names MicroPress Inc. and STI Pub Companies, as well as the names of the companies/organizations that compose the STI Pub Companies, shall not be used in advertising or otherwise to promote the sale, use or other dealings in the Font Software without the prior written consent of the respective company or organization.

8. This License shall become null and void in the event of any material breach of the Terms and Conditions herein by licensee. 9. A substantial portion of the STIX Fonts set was developed by MicroPress Inc. for the STI Pub Companies. To obtain additional mathematical fonts, please contact MicroPress, Inc., 68-30 Harrow Street, Forest Hills, NY 11375, USA - Phone: (718) 575-1816.

_____ Yorick (colormap):4a3f033 BSD-style license for gist/yorick colormaps. 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.

DISCLAIMER

This software was prepared as an account of work sponsored by an agency of the United States Government. Neither the United States Government nor the University of California nor any of their employees, makes any warranty, express or implied, or assumes any liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately-owned rights. Reference herein to any specific commercial products, process, or service by trade name, trademark, manufacturer, or otherwise, does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or the University of California. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government or the University of California, and shall not be used for advertising or product endorsement purposes. AUTHOR David H. Munro wrote Yorick and Gist. Berkeley Yacc (byacc) generated the Yorick parser. The routines in

Math are
from LAPACK and FFTPACK; MathC contains C translations by David H. Munro. The
algorithms
for Yorick's random number generator and several special functions in Yorick/
include
were taken from Numerical Recipes by Press, et. al., although the Yorick
implementations
are unrelated to those in Numerical Recipes. A small amount of code in Gist was
adapted
from the X11R4 release, copyright M.I.T. -- the complete copyright notice may be
found
in the (unused) file Gist/host.c.

_____ enthought:4a3f033

Copyright (c) 2001, 2002 Enthought, 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. 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 the Enthought
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 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.

_____ Solarized (color palette):4a3f033

Copyright (c) 2011 Ethan Schoonover 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.

Pnpoly:4a3f033 _____ Numpy:1.18.1

Copyright (c) 2005-2019, NumPy Developers. 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 NumPy Developers 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 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.

Pyparsing:2.4.6 _____ Kiwisolver:1.1.0

===== The Kiwi licensing terms =====

Kiwi is licensed under the terms of the Modified BSD License (also known as New or

Revised BSD), as follows: Copyright (c) 2013, Nucleic Development 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: 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 Nucleic Development Team 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.

About Kiwi -----

Chris Colbert began the Kiwi project in December 2013 in an effort to create a blisteringly fast UI constraint solver. Chris is still the project lead. The Nucleic Development Team is the set of all contributors to the Nucleic project and its subprojects. The core team that coordinates development on GitHub can be found here: <http://github.com/nucleic>. The current team consists of:

* Chris Colbert Our Copyright Policy -----

Nucleic uses a shared copyright model. Each contributor maintains copyright over their contributions to Nucleic. But, it is important to note that these contributions are typically only changes to the repositories. Thus, the Nucleic source code, in its entirety is not the copyright of any single person or institution. Instead, it is the collective copyright of the entire Nucleic Development Team. If individual contributors want to maintain a record of what changes/contributions they have specific copyright on, they should indicate their copyright in the commit message of the change, when they commit the change to one of the Nucleic repositories. With this in mind, the following banner should be used in any source code file to indicate the copyright and license terms:

```
#-----  
# Copyright (c) 2013, Nucleic Development Team. #  
# Distributed under the terms of the Modified BSD License. #  
# The full license is in the file COPYING.txt, distributed with this software.  
#-----
```

____ Setuptools:39.0.1
Copyright (C) 2016 Jason R Coombs jaraco@jaraco.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.

Python-dateutil:2.6.1 ____ Cyclur:0.10.0
Copyright (c) 2015, matplotlib project 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 matplotlib project nor the names of its contributors may be used to endorse or promote products derived from this software without specific 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.

Six:1.14.0

Copyright (c) 2010-2020 Benjamin Peterson 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.

NumPy

Vendor: NumPy Developers

NumPy 1.18.2

License: BSD 3-Clause New

License text: Reference [1]

4th Parties:

Name: Numpydoc

License: 2-clause BSD

License text: Reference [2]

Name: scipy-sphinx-theme

License: 3-clause BSD

License text: Reference [3]

Name: _theme/scipy/static/copybutton.js

License: PSF

License text: Reference [8]

Name: lapack-lite

License: 3-clause BSD

License text: Reference [4]

Name: tempita

License: BSD derived

License text: Reference [5]

Name: dragon4

License: MIT
License text: Reference [6]

Name: Twitter Bootstrap 2.3.1
License: Apache 2.0
License text: Reference [7]

References:

===Start reference [1]===
Copyright (c) 2005-2019, NumPy Developers.
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 NumPy Developers 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 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.
===End reference [1]===

===Start reference [2]===
Copyright (C) 2008 Stefan van der Walt , Pauli Virtanen

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 ``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.

===End reference [2]===

===Start reference [3]===

Copyright (c) 2011 Kevin Dunn, Surya K, Pauli Virtanen, the Sphinx 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:

- * 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 other 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.

===End reference [3]===

===Start reference [4]===

Copyright (c) 1992-2013 The University of Tennessee and The University of Tennessee Research Foundation. All rights reserved.

Copyright (c) 2000-2013 The University of California Berkeley. All rights reserved.

Copyright (c) 2006-2013 The University of Colorado Denver. All rights reserved.

§COPYRIGHT§

Additional copyrights may follow

§HEADER§

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 listed in this license in the documentation and/or other materials provided with the distribution.
- 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.

The copyright holders provide no reassurances that the source code provided does not infringe any patent, copyright, or any other intellectual property rights of third parties. The copyright holders disclaim any liability to any recipient for claims brought against recipient by any third party for infringement of that parties intellectual property rights.

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.
===End reference [4]===

===Start reference [5]===

Copyright (c) 2008 Ian Bicking 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.
===End reference [5]===

===Start reference [6]===

```
/*
 * Copyright (c) 2014 Ryan Juckett
 *
 * 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.
*/
===End reference [6]===
```

```
===Start reference [7]===
```

The Apache license appears in [Apache POI](#).

```
===End reference [7]===
```

```
===Start reference [8]===
```

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.
2. Subject to the terms and conditions of this License Agreement, PSF hereby grants Licensee a nonexclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use Python alone or in any derivative version, provided, however, that PSF's License Agreement and PSF's notice of copyright, i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013 Python Software Foundation; All Rights Reserved" are retained in Python alone or in any derivative version prepared by Licensee.
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.
===End reference [8]===

pandas

Vendor: Open Source

Copyright (c) 2008-2011, AQR Capital Management, LLC, Lambda Foundry, Inc. and PyData Development Team
All rights reserved.

Copyright (c) 2011-2020, Open source contributors.

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 copyright holder 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.

-- python-dateutil Copyright 2017- Paul Ganssle <paul@ganssle.io>

Copyright 2017- dateutil contributors (see AUTHORS file) 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. The above license applies to all contributions
after 2017-12-01,
as well as all contributions that have been re-licensed (see AUTHORS file for
the list of
contributors who have re-licensed their code).

dateutil - Extensions to the standard Python datetime module.

Copyright (c) 2003-2011 - Gustavo Niemeyer <gustavo@niemeyer.net>
Copyright (c) 2012-2014 - Tomi Pieviläinen <tomi.pievilainen@iki.fi>
Copyright (c) 2014-2016 - Yaron de Leeuw <me@jarondl.net>
Copyright (c) 2015- - Paul Ganssle <paul@ganssle.io>
Copyright (c) 2015- - dateutil contributors (see AUTHORS file) 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 copyright holder 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 above BSD
License Applies to all code, even that also covered by Apache 2.0.

-- pytz Copyright (c) 2003-2019 Stuart Bishop <stuart@stuartbishop.net>
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.

-- numpy

Copyright © 2005-2020, NumPy Developers. 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 NumPy Developers 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 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.

-- six

Copyright (c) 2010-2020 Benjamin Peterson

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.

-- haven # MIT License

Copyright (c) 2019 Hadley Wickham; RStudio; and Evan Miller

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.

-- musl

musl as a whole is licensed under the following standard MIT license:

Copyright © 2005-2014 Rich Felker, et al.

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.

Authors/contributors include: Anthony G. Basile Arvid Picciani Bobby Bingham Boris Brezillon Brent Cook Chris Spiegel Clément Vasseur Emil Renner Berthing Hiltjo Posthuma Isaac Dunham Jens Gustedt Jeremy Huntwork John Spencer Justin Cormack Luca Barbato Luka Perkov M Farkas-Dyck (Strake) Michael Forney Nicholas J. Kain orc Pascal Cuoq Pierre Carrier Rich Felker Richard Pennington sin Solar Designer Stefan Kristiansson Szabolcs Nagy Timo Teräs Valentin Ochs William Haddon Portions of this software are derived from third-party works licensed under terms compatible with the above MIT license: The TRE regular expression implementation (src/regex/reg* and src/regex/tre*) is Copyright © 2001-2008 Ville Laurikari and licensed under a 2-clause BSD license (license text in the source files). The included version has been heavily modified by Rich Felker in 2012, in the interests of size, simplicity, and namespace cleanliness. Much of the math library code (src/math/* and src/complex/*) is Copyright © 1993,2004 Sun Microsystems or Copyright © 2003-2011 David Schultz or Copyright © 2003-2009 Steven G. Kargl or Copyright © 2003-2009 Bruce D. Evans or Copyright © 2008 Stephen L. Moshier and labelled as such in comments in the individual source files. All have been licensed under extremely permissive terms. The ARM memcpy code (src/string/armel/memcpy.s) is Copyright © 2008 The Android Open Source Project and is licensed under a two-clause BSD license. It was taken from Bionic libc, used on Android. The implementation of DES for crypt (src/misc/crypt_des.c) is Copyright © 1994 David Burren. It is licensed under a BSD license. The implementation of blowfish crypt (src/misc/crypt_blowfish.c) was originally written by Solar Designer and placed into the public domain. The code also comes with a fallback permissive license for use in jurisdictions that may not recognize the public domain. The smoothsort implementation (src/stdlib/qsart.c) is Copyright © 2011 Valentin Ochs and is licensed under an MIT-style license. The BSD PRNG implementation (src/prng/random.c) and XSI search API (src/search/*.c) functions are Copyright © 2011 Szabolcs Nagy and licensed under following terms: "Permission to use, copy, modify, and/or distribute this code for any purpose with or without fee is hereby granted. There is no warranty." The x86_64 port was written by Nicholas J. Kain. Several files (crt) were released into the public domain; others are licensed under the standard MIT license terms at the top of this file. See individual files for their copyright status. The mips and microblaze ports were originally written

by Richard Pennington for use in the ellcc project. The original code was adapted by Rich Felker for build system and code conventions during upstream integration. It is licensed under the standard MIT terms. The powerpc port was also originally written by Richard Pennington, and later supplemented and integrated by John Spencer. It is licensed under the standard MIT terms. All other files which have no copyright comments are original works produced specifically for use as part of this library, written either by Rich Felker, the main author of the library, or by one or more contributors listed above. Details on authorship of individual files can be found in the git version control history of the project. The omission of copyright and license comments in each file is in the interest of source tree size. All public header files (include/* and arch/*/bits/*) should be treated as Public Domain as they intentionally contain no content which can be covered by copyright. Some source modules may fall in this category as well. If you believe that a file is so trivial that it should be in the Public Domain, please contact the authors and request an explicit statement releasing it from copyright. The following files are trivial, believed not to be copyrightable in the first place, and hereby explicitly released to the Public Domain: All public headers: include/*, arch/*/bits/* Startup files: crt/*

-- numpydoc

Copyright (C) 2008 Stefan van der Walt <stefan@mentat.za.net>, Pauli Virtanen <pav@iki.fi>

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 ``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.

-- bottleneck

Copyright (c) 2010-2019 Keith Goodman Copyright (c) 2019 Bottleneck Developers 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.

-- google-api-python-client

Copyright (C) 2012 Google Inc. All rights reserved.

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.

-- Pyperclip

Copyright (c) 2010, Albert Sweigart All rights reserved.

BSD-style 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 pyperclip 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 Albert Sweigart "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 Albert Sweigart 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.

-- sas7bdat

Copyright (c) 2015 Jared Hobbs

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.

-- scipy

Copyright (c) 2001, 2002 Enthought, Inc. All rights reserved.
Copyright (c) 2003-2012 SciPy Developers. 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. 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 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 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.

-- ujson

Copyright (c) 2011-2013, ESN Social Software AB and Jonas Tarnstrom 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 ESN Social Software AB 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 ESN SOCIAL SOFTWARE AB OR JONAS TARNSTROM 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 code from MODP_ASCII - Ascii transformations (upper/lower, etc)
<https://github.com/client9/stringencoders>

Copyright (c) 2007 Nick Galbreath -- nickg [at] modp [dot] com. All rights reserved.

Numeric decoder derived from from TCL library <http://www.opensource.apple.com/source/tcl/tcl-14/tcl/license.terms>

- * Copyright (c) 1988-1993 The Regents of the University of California.

- * Copyright (c) 1994 Sun Microsystems, Inc.

```
-- xarray
```

The Apache license appears in [Apache POI](#).

pip

Vendor: The pip developers

Copyright (c) 2008-2019 The pip developers (see AUTHORS.txt file)

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.

py4j

Vendor: Barthelemy Dagenais

Copyright (c) 2009-2018, Barthelemy Dagenais and individual contributors. 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 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 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.

Simple Logging Facade for Java (SLF4J)

Vendor: QOS.ch

Copyright (c) 2004-2017 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.

SockJS client

Vendor: VMware

Copyright (c) 2011-2012 VMware, 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.

Fourth Party dependencies

debug v. 3.2.5
Copyright (c) 2014 TJ Holowaychuk

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 NON-INFRINGEMENT.
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.

eventsources v. 1.0.7
Copyright (c) EventSource GitHub organisation

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
NON-INFRINGEMENT. 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.

url-parse v. 1.4.3
Copyright (c) 2015 Unshift.io, Arnout Kazemier, the 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 NON-INFRINGEMENT. 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.

querystringify v. 2.1.0

Copyright (c) 2015 Unshift.io, Arnout Kazemier, the 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.

requiresport v. 1.0.0

Copyright (c) 2015 Unshift.io, Arnout Kazemier, the 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.

faye-websocket v. 0.11.1

Copyright (c) 2010-2017 James Coglan

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.

websocket-driver v. 0.7.0
Copyright (c) 2010-2017 James Coglan

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.

http-parser-js v. 0.4.9
Copyright (c) 2015 Tim Caswell (<https://github.com/creationix>) and other contributors. 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.

Some files from the tests folder are from joyent/node and mscdex/io.js, a fork of nodejs/io.js:

tests/iojs/test-http-parser-durability.js

This file is from <https://github.com/mscdex/io.js/blob/js-http-parser/test/pummel/test-http-parser-durability.js> with modifications by Jan Schär (jscissr).

""" Copyright io.js contributors. 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. ""

```
tests/fixtures/* tests/parallel/* tests/testpy/* tests/common.js
tests/test.py tests/utills.py
```

These files are from <https://github.com/nodejs/node> with changes by Jan Schär (jscissr).

Node.js is licensed for use as follows:

```
"" Copyright Node.js contributors. 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. ""

This license applies to parts of Node.js originating from the <https://github.com/joyent/node> repository:

```
"" Copyright Joyent, Inc. and other Node contributors. 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. ""

websocket-extensions v. 0.1.3
Copyright (c) 2014-2017 James Coglan

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.

-json3 v. 3.2.2
Copyright (c) 2012-2014 Kit Cambridge.
<http://kitcambridge.be/>

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.

-url-parse v. 1.4.3
Copyright (c) 2015 Unshift.io, Arnout Kazemier, the 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.

-querystringify v. 1.0.0
Copyright (c) 2015 Unshift.io, Arnout Kazemier, the 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.

-requires-port v. 1.0.0
Copyright (c) 2015 Unshift.io, Arnout Kazemier, the 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.

ISC Licensed dependencies
-inherits v. 2.0.3
The ISC License

Copyright (c) Isaac Z. Schlueter

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.

Spring Boot

Vendor: Pivotal Software, Inc

Spring Boot 2.1.12

spring-boot-2.1.12.RELEASE.jar
spring-boot-properties-migrator-2.1.12.RELEASE.jar
spring-boot-starter-2.1.12.RELEASE.jar
spring-boot-starter-actuator-2.1.12.RELEASE.jar
spring-boot-starter-aop-2.1.12.RELEASE.jar
spring-boot-starter-cache-2.1.12.RELEASE.jar
spring-boot-starter-data-jpa-2.1.12.RELEASE.jar
spring-boot-starter-jdbc-2.1.12.RELEASE.jar
spring-boot-starter-json-2.1.12.RELEASE.jar
spring-boot-starter-log4j2-2.1.12.RELEASE.jar
spring-boot-starter-logging-2.1.12.RELEASE.jar
spring-boot-starter-tomcat-2.1.12.RELEASE.jar
spring-boot-starter-validation-2.1.12.RELEASE.jar
spring-boot-starter-web-2.1.12.RELEASE.jar
spring-boot-starter-websocket-2.1.12.RELEASE.jar
spring-aop-5.1.13.RELEASE.jar
spring-aspects-5.1.13.RELEASE.jar
spring-beans-5.1.13.RELEASE.jar
spring-boot-actuator-2.1.12.RELEASE.jar
spring-boot-actuator-autoconfigure-2.1.12.RELEASE.jar
spring-boot-autoconfigure-2.1.12.RELEASE.jar
spring-boot-configuration-metadata-2.1.12.RELEASE.jar
spring-context-5.1.13.RELEASE.jar
spring-context-support-5.1.13.RELEASE.jar
spring-core-5.1.13.RELEASE.jar
spring-data-commons-2.1.15.RELEASE.jar
spring-data-jpa-2.1.15.RELEASE.jar
spring-expression-5.1.13.RELEASE.jar
spring-jcl-5.1.13.RELEASE.jar
spring-jdbc-5.1.13.RELEASE.jar
spring-messaging-5.1.13.RELEASE.jar
spring-orm-5.1.13.RELEASE.jar
spring-tx-5.1.13.RELEASE.jar
spring-web-5.1.13.RELEASE.jar
spring-webmvc-5.1.13.RELEASE.jar
spring-websocket-5.1.13.RELEASE.jar

Copyright 2002-2019 the original author or authors.

The Apache license appears in [Apache POI](#).

antlr-2.7.7.jar

We reserve no legal rights to the ANTLR--it is fully in the public domain. An individual or company may do whatever they wish with source code distributed with ANTLR or the code generated by ANTLR, including the

incorporation of ANTLR, or its output, into commercial software. We encourage users to develop software with ANTLR. However, we do ask that credit is given to us for developing ANTLR. By "credit", we mean that if you use ANTLR or incorporate any source code into one of your programs (commercial product, research project, or otherwise) that you acknowledge this fact somewhere in the documentation, research report, etc... If you like ANTLR and have developed a nice tool with the output, please mention that you developed it using ANTLR. In addition, we ask that the headers remain intact in our source code. As long as these guidelines are kept, we expect to continue enhancing this system and expect to make other tools available as they are completed. In countries where the Public Domain status of the work may not be valid, the author grants a copyright licence to the general public to deal in the work without restriction and permission to sublicense derivatives under the terms of any (OSI approved) Open Source licence. The Python parser generator code under `antlr/actions/python/` is covered by the 3-clause BSD licence (this part is included in the binary JAR files); the run-time part under `lib/python/` is covered by the GNU GPL, version 3 or later (this part is not included in the binary JAR files). See here for the full details.

`aspectjweaver-1.9.5.jar`
Copyright (c) 2005 Contributors. All rights reserved.

* This program and the accompanying materials are made available under the terms of the Eclipse Public License v1.0 which accompanies this distribution and is available at <http://eclipse.org/legal/epl-v10.html> 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 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. Spring Boot requires the use of some or all of the following:

```
android-json-0.0.20131108.vaadin1.jar
/* * Copyright (C) 2010 The Android Open Source Project *
* 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. */
```

byte-buddy-1.9.16.jar

```
/* * Copyright 2014 - 2019 Rafael Winterhalter *
* 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. */
```

classmate-1.4.0.jar Java ClassMate project:
licensed under Apache License 2.0 (<http://www.apache.org/licenses/LICENSE-2.0.txt>)

dom4j-2.1.1.jar

Copyright 2001-2016 (C) MetaStuff, Ltd. and DOM4J contributors. 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 - <https://dom4j.github.io/>

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.

HdrHistogram-2.1.9.jar

The code in this repository code was Written by Gil Tene, Michael Barker, and
Matt Warren, and
released to the public domain, as explained at [http://creativecommons.org/
publicdomain/zero/1.0/](http://creativecommons.org/publicdomain/zero/1.0/)
For users of this code who wish to consume it under the "BSD" license rather
than under the public
domain or CC0 contribution text mentioned above, the code found under this
directory is *also*
provided under the following license (commonly referred to as the BSD 2-Clause
License). This license
does not detract from the above stated release of the code into the public
domain, and simply
represents an additional license granted by the Author.

** Beginning of "BSD 2-Clause License" text. **

Copyright (c) 2012, 2013, 2014, 2015, 2016 Gil Tene
Copyright (c) 2014 Michael Barker
Copyright (c) 2014 Matt Warren 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
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.

hibernate-commons-annotations-5.0.4.Final.jar
hibernate-core-5.3.15.Final.jar

Hibernate, Relational Persistence for Idiomatic Java License: GNU Lesser General Public License (LGPL), version 2.1 or later. See the lgpl.txt file in the root directory or <<http://www.gnu.org/licenses/lgpl-2.1.html>.

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999

Free Software Foundation, Inc. 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed. [This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.] Preamble The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below. When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things. To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it. For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and

recompiling it. And you must show them these terms so they know their rights. We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library. To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license. Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs. When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library. We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances. For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License. In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system. Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library. The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be

combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION 0.

This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you". A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables. The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".) "Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library. Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library. You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.
2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:
 - a) The modified work must itself be a software library.
 - b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
 - c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
 - d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful. (For example, a function in a library to compute square roots

has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.) These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it. Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library. In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange. If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications. You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
- b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
- c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy. For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed

need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable. It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities.

This must be distributed under the terms of the Sections above.

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

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License.

Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library 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.

9. 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 Library or its derivative works. These actions are prohibited by law if you do not accept this License.

Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License

to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from

the original licensor to copy, distribute, link with or modify the Library 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 with this License.

11. 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 Library at all.

For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly

or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution

of the Library. If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the

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

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library 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.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser 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 Library 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 Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, 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

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "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 LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. 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 LIBRARY 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 LIBRARY (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 LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), 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 Libraries If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License). To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found. <one line to give the library's name and a brief idea of what it does.> Copyright (C) <year> <name of author> This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version. This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details. You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA Also add information on how to contact you by electronic and paper mail. You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names: Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker. <signature of Ty Coon>, 1 April 1990 Ty Coon, President of Vice That's all there is to it!

hibernate-validator-6.0.18.Final.jar

License: Apache License, Version 2.0 See the license.txt file in the root directory or <<http://www.apache.org/licenses/LICENSE-2.0>>.

HikariCP-3.2.0.jar

Copyright (C) 2013, 2014 Brett Wooldridge

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.

jackson-annotations-2.10.1.jar

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 derivate works.
You may obtain a copy of the License at: <http://www.apache.org/licenses/LICENSE-2.0>

jackson-core-2.10.1.jar

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 derivate works.
You may obtain a copy of the License at: <http://www.apache.org/licenses/LICENSE-2.0>

Jackson-databind-2.9.8.jar

This copy of Jackson JSON processor databind module 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>

jackson-datatype-jdk8-2.9.8.jar
jackson-datatype-jsr310-2.9.8.jar
jackson-module-parameter-names-2.9.8.jar

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.

jandex-2.0.5.Final.jar

Copyright 2014 Red Hat, Inc. and individual contributors as indicated by the @author tags.

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.

javassist-3.23.1-GA.jar Javassist, a Java-bytecode translator toolkit.

Copyright (C) 1999- Shigeru Chiba. All Rights Reserved.

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. Alternatively, the contents of this file may be used under the terms of the GNU Lesser General Public License Version 2.1 or later, or the Apache License Version 2.0. 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. Oracle's use of javassist is under the Apache License version 2.0.

jboss-logging-3.3.2.Final.jar

Copyright 2010 Red Hat, 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.

jul-to-slf4j-1.7.26.jar

Copyright (c) 2004-2017 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.

LatencyUtils-2.0.3.jar

* This code was Written by Gil Tene of Azul Systems, and released to the
* public domain, as explained at <http://creativecommons.org/publicdomain/zero/1.0/> For users of this code who

wish to consume it under the "BSD" license rather than under the public domain or CC0 contribution text mentioned above, the code found under this directory is *also* provided under the following license (commonly referred to as the BSD 2-Clause License). This license does not detract from the above stated release of the code into the public domain, and simply represents an additional license granted by the Author.

** Beginning of "BSD 2-Clause License" text. **

Copyright (c) 2012, 2013, 2014 Gil Tene 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 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.

log4j-api-2.11.2.jar
log4j-core-2.11.2.jar
log4j-slf4j-impl-2.11.2.jar
log4j-jul-2.11.2.jar

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.

Apache Log4j
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

micrometer-core-1.1.4.jar

Copyright 2017 Pivotal Software, 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 <https://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.

slf4j-api-1.7.26.jar

Copyright (c) 2004-2017 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.

snakeyaml-1.23.jar

/** * Copyright (c) 2008, <http://www.snakeyaml.org> *
* 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. */
```

```
tomcat-embed-core-9.0.19.jar  
tomcat-embed-el-9.0.19.jar  
tomcat-embed-websocket-9.0.19.jar  
Apache Tomcat
```

```
Copyright 1999-2019 The Apache Software Foundation
```

```
This product includes software developed at The Apache Software Foundation  
(https://www.apache.org/).  
This software contains code derived from netty-native developed by the Netty  
project  
(https://netty.io, https://github.com/netty/netty-tcnative/) and from finagle-  
native developed at  
Twitter (https://github.com/twitter/finagle).  
This software contains code derived from jgroups-kubernetes developed by the  
JGroups project  
(http://www.jgroups.org/).  
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 https://www.eclipse.org/jdt/core/.  
org.apache.tomcat.util.json.JSONParser.jj is a public domain javacc grammar for  
JSON written by  
Robert Fischer. https://github.com/RobertFischer/json-parser 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 For  
portions of the Tomcat cloud  
support  
The org.apache.catalina.tribes.membership.cloud package contains derivative work  
originating from the  
jgroups project. https://github.com/jgroups-extras/jgroups-kubernetes Copyright  
2002-2018 Red Hat Inc.  
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
- javaee_8.xsd
- web-app_4_0.xsd
- web-common_4_0.xsd
- web-fragment_4_0.xsd

may be obtained from: <http://www.oracle.com/webfolder/technetwork/jsc/xml/ns/javaee/index.html>

The Apache license appears in [Apache POI](#).

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.
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
- 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.

3.6. Larger Works. 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.

validation-api-2.0.1.Final.jar

Bean Validation API License:

Apache License, Version 2.0

See the license.txt file in the root directory or <<http://www.apache.org/licenses/LICENSE-2.0>>.

Spring Retry

Vendor: Pivotal Software, Inc

Spring Retry, Version 1.2.5

© 2019 Pivotal Software, Inc. All Rights Reserved.

The Apache license appears in [Apache POI](#).

Springfox

Vendor: Marty Pitt, Dilip Krishnan, and Adrian Kelly

Copyright 2015 Marty Pitt - [[@martypitt](https://github.com/martypitt)](<https://github.com/martypitt>), Dilip Krishnan - [[@dilipkrish](https://github.com/dilipkrish)](<https://github.com/dilipkrish>), Adrian Kelly - [[@adrianbk](https://github.com/adrianbk)](<https://github.com/adrianbk>),

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 [[apache.org/licenses/LICENSE-2.0](http://www.apache.org/licenses/LICENSE-2.0)](<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.

Springfox in this product also contains the following 4th party dependencies:

```
net.bytebuddy:byte-buddy
org.mapstruct:mapstruct
org.slf4j:slf4j-api
com.fasterxml.jackson.core:jackson-annotation
com.fasterxml:classmate
com.google.guava:guava:25.0-jre
io.springfox:springfox-bean-validators
io.springfox:springfox-core
io.springfox:springfox-schema
io.springfox:springfox-spi
io.springfox:springfox-spring-web
io.springfox:springfox-swagger-common
io.springfox:springfox-swagger-ui
io.springfox:springfox-swagger
io.swagger:swagger-annotations
io.swagger:swagger-models
org.springframework.plugin:spring-plugin-core
org.springframework.plugin:spring-plugin-metadata
org.springframework:spring-aop
org.springframework:spring-beans
org.springframework:spring-context
org.springframework:spring-core
org.springframework:spring-expression
```

--classmate is licensed under the Apache License 2.0.

Copyright ©2009-2011 FasterXML, LLC. All rights reserved unless otherwise indicated.

--spring-plugin-core is licensed under the Apache License version 2.0.

```
/*
 * Copyright 2008-2019 the original author or authors.
 *
 * 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.
 */
```

--spring-plugin-metadata is licensed under the Apache License version 2.0.

```
/*
 * Copyright 2008-2019 the original author or authors.
 *
 * 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.  
*/
```

The Apache license appears in [Apache POI](#).

STOMP.js

Vendors: Various Open Source Licensors

```
StompJS v. 5.2.0  
MIT License  
https://github.com/stomp-js/stompjs/tree/5.2.0  
https://github.com/stomp-js/stompjs/blob/5.2.0/LICENSE.md
```

Copyright (c) 2018 Deepak Kumar

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.

three.js

Vendor: three.js authors

The MIT License

Copyright © 2010-2018 three.js authors

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.

Thrift

Vendors: Apache

Apache Thrift
Copyright 2006-2010 The Apache Software Foundation.

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

The Apache license appears in [Apache POI](#).

SOFTWARE DISTRIBUTED WITH THRIFT:

The Apache Thrift software includes a number of subcomponents with separate copyright notices and license terms. Your use of the source code for these subcomponents is subject to the terms and conditions of the following licenses.

Portions of the following files are licensed under the MIT License:

lib/erl/src/Makefile.am

Please see doc/otp-base-license.txt for the full terms of this license.

For the aclocal/ax_boost_base.m4 and contrib/fb303/aclocal/ax_boost_base.m4 components:

```
# Copyright (c) 2007 Thomas Porschberg
#
# Copying and distribution of this file, with or without
# modification, are permitted in any medium without royalty provided
# the copyright notice and this notice are preserved.
```

For the compiler/cpp/src/thrift/md5.[ch] components:

```
/*
Copyright (C) 1999, 2000, 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

Other Thrift dependencies

Slf4j-api
Copyright (c) 2004-2017 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.

HttpClient
Apache HttpComponents Client
Copyright 1999-2018 The Apache Software Foundation

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

Httpcore
Apache HttpComponents Client
Copyright 1999-2018 The Apache Software Foundation

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

Commons-logging
Apache Commons Logging
Copyright 2003-2014 The Apache Software Foundation

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

Commons-codec v. 1.10

Apache Commons Codec
Copyright 2002-2014 The Apache Software Foundation

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

src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java
contains test data from <http://aspell.net/test/orig/batch0.tab>.
Copyright (C) 2002 Kevin Atkinson (kevin@gnu.org)

The content of package org.apache.commons.codec.language.bm has been translated
from the original php source code available at <http://stevemorse.org/phoneticinfo.htm>
with permission from the original authors.
Original source copyright:
Copyright (c) 2008 Alexander Beider & Stephen P. Morse.

Zeppelin

Vendor: The Apache Software Foundation

Apache Zeppelin
Copyright 2013 - 2019 The Apache Software Foundation

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

spark-interpreter-0.8.1.jar
// -----
// NOTICE file corresponding to the section 4d of The Apache License,
// Version 2.0, in this case for Zeppelin: Spark Interpreter
// -----

Zeppelin: Spark Interpreter

Copyright 2013-2019 The Apache Software Foundation

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

This product includes software, com.google.api.grpc:proto-google-common-protos,
developed by \$project.organization.name (\$project.organization.url).

This product includes software, FindBugs-jsr305, developed by
\$project.organization.name (\$project.organization.url).

This product includes software, Gson, developed by Google, Inc.
(<http://www.google.com/>).

This product includes software, error-prone annotations, developed by
\$project.organization.name (\$project.organization.url).

This product includes software, Guava: Google Core Libraries for Java,
developed by \$project.organization.name (\$project.organization.url).

This product includes software, Instrumentation, developed by
\$project.organization.name (\$project.organization.url).

This product includes software, Protocol Buffers [Core], developed by Google (<http://www.google.com/>).

This product includes software, Protocol Buffers [Util], developed by Google (<http://www.google.com/>).

This product includes software, Commons Codec, developed by The Apache Software Foundation (<http://www.apache.org/>).

This product includes software, Commons Configuration, developed by The Apache Software Foundation (<http://www.apache.org/>).

This product includes software, HttpClient, developed by Apache Software Foundation (<http://jakarta.apache.org/>).

This product includes software, Commons IO, developed by The Apache Software Foundation (<http://www.apache.org/>).

This product includes software, Commons Logging, developed by The Apache Software Foundation (<http://www.apache.org/>).

This product includes software, io.grpc:grpc-context, developed by \$project.organization.name ([\\$project.organization.url]($project.organization.url)).

This product includes software, io.grpc:grpc-core, developed by \$project.organization.name ([\\$project.organization.url]($project.organization.url)).

This product includes software, io.grpc:grpc-netty, developed by \$project.organization.name ([\\$project.organization.url]($project.organization.url)).

This product includes software, io.grpc:grpc-protobuf, developed by \$project.organization.name ([\\$project.organization.url]($project.organization.url)).

This product includes software, io.grpc:grpc-protobuf-lite, developed by \$project.organization.name ([\\$project.organization.url]($project.organization.url)).

This product includes software, io.grpc:grpc-stub, developed by \$project.organization.name ([\\$project.organization.url]($project.organization.url)).

This product includes software, Netty/Buffer, developed by The Netty Project (<http://netty.io/>).

This product includes software, Netty/Codec, developed by The Netty Project (<http://netty.io/>).

This product includes software, Netty/Codec/HTTP, developed by The Netty Project (<http://netty.io/>).

This product includes software, Netty/Codec/HTTP2, developed by The Netty Project (<http://netty.io/>).

This product includes software, Netty/Codec/Socks, developed by The Netty Project (<http://netty.io/>).

This product includes software, Netty/Common, developed by The Netty Project (<http://netty.io/>).

This product includes software, Netty/Handler, developed by The Netty Project (<http://netty.io/>).

This product includes software, Netty/Handler/Proxy, developed by The Netty Project (<http://netty.io/>).

This product includes software, Netty/Resolver, developed by The Netty Project (<http://netty.io/>).

This product includes software, Netty/Transport, developed by The Netty Project (<http://netty.io/>).

This product includes software, JLine, developed by \$project.organization.name ([\\$project.organization.url]($project.organization.url)).

This product includes software, Apache Log4j, developed by Apache Software Foundation (<http://www.apache.org/>).

This product includes software, Apache Commons Exec, developed by The Apache Software Foundation (<http://www.apache.org/>).

This product includes software, Apache Commons Lang, developed by The Apache Software Foundation (<http://www.apache.org/>).

This product includes software, Apache Commons Pool, developed by The Apache Software Foundation (<http://www.apache.org/>).

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

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

This product includes software, Maven Aether Provider, developed by The Apache Software Foundation (<http://www.apache.org/>).

This product includes software, Maven Artifact, developed by The Apache Software Foundation (<http://www.apache.org/>).

This product includes software, Maven Model, developed by The Apache Software Foundation (<http://www.apache.org/>).

This product includes software, Maven Model Builder, developed by The Apache Software Foundation (<http://www.apache.org/>).

This product includes software, Maven Plugin API, developed by The Apache Software Foundation (<http://www.apache.org/>).

This product includes software, Maven Repository Metadata Model, developed by The Apache Software Foundation (<http://www.apache.org/>).

This product includes software, Maven Wagon HTTP Provider, developed by The Apache Software Foundation (<http://www.apache.org/>).

This product includes software, Maven Wagon Lightweight HTTP Provider, developed by The Apache Software Foundation (<http://www.apache.org/>).

This product includes software, Maven Wagon HTTP Shared Library, developed by The Apache Software Foundation (<http://www.apache.org/>).

This product includes software, Maven Wagon API, developed by The Apache Software Foundation (<http://www.apache.org/>).

This product includes software, Apache Thrift, developed by

`$project.organization.name ($project.organization.url).`

This product includes software, Zeppelin: Spark Interpreter Scala_2.10, developed by `$project.organization.name ($project.organization.url).`

This product includes software, Zeppelin: Spark Interpreter Scala_2.11, developed by `$project.organization.name ($project.organization.url).`

This product includes software, Zeppelin: Spark Shims, developed by `$project.organization.name ($project.organization.url).`

This product includes software, Zeppelin: Spark1 Shims, developed by `$project.organization.name ($project.organization.url).`

This product includes software, Zeppelin: Spark2 Shims, developed by `$project.organization.name ($project.organization.url).`

This product includes software, Zeppelin: Display system apis, developed by `$project.organization.name ($project.organization.url).`

This product includes software, Zeppelin: Interpreter, developed by `$project.organization.name ($project.organization.url).`

This product includes software, Zeppelin: Python interpreter, developed by `$project.organization.name ($project.organization.url).`

This product includes software, Bouncy Castle PKIX, CMS, EAC, TSP, PKCS, OCSP, CMP, and CRMF APIs, developed by `$project.organization.name ($project.organization.url).`

This product includes software, Bouncy Castle Provider, developed by `$project.organization.name ($project.organization.url).`

This product includes software, Plexus Classworlds, developed by Codehaus (<http://www.codehaus.org/>).

This product includes software, Plexus :: Component Annotations, developed by Codehaus (<http://www.codehaus.org/>).

This product includes software, Plexus Interpolation API, developed by Codehaus (<http://www.codehaus.org/>).

This product includes software, Plexus Common Utilities, developed by Codehaus (<http://www.codehaus.org/>).

This product includes software, gson-extras, developed by `$project.organization.name ($project.organization.url).`

This product includes software, jsoup, developed by Jonathan Hedley (<http://jonathanhedley.com/>).

This product includes software, SLF4J API Module, developed by QOS.ch (<http://www.qos.ch>).

This product includes software, SLF4J LOG4J-12 Binding, developed by QOS.ch (<http://www.qos.ch>).

This product includes software, Aether :: API, developed by Sonatype, Inc. (<http://www.sonatype.com/>).

This product includes software, Aether :: Connector :: File, developed

by Sonatype, Inc. (<http://www.sonatype.com/>).

This product includes software, Aether :: Connector :: Wagon, developed by Sonatype, Inc. (<http://www.sonatype.com/>).

This product includes software, Aether :: Implementation, developed by Sonatype, Inc. (<http://www.sonatype.com/>).

This product includes software, Aether :: SPI, developed by Sonatype, Inc. (<http://www.sonatype.com/>).

This product includes software, Aether :: Utilities, developed by Sonatype, Inc. (<http://www.sonatype.com/>).

This product includes software, Google Guice - Core Library, developed by Google, Inc. (<http://www.google.com>).

This product includes software, Sisu-Inject-Bean : Aggregate OSGi bundle, developed by Sonatype, Inc. (<http://www.sonatype.com/>).

This product includes software, Sisu-Inject-Plexus : Aggregate OSGi bundle, developed by Sonatype, Inc. (<http://www.sonatype.com/>).

```
zeppelin-groovy-0.8.1.jar
// -----
// NOTICE file corresponding to the section 4d of The Apache License,
// Version 2.0, in this case for Zeppelin: Groovy interpreter
// -----
```

Zeppelin: Groovy interpreter

Copyright 2013-2019 The Apache Software Foundation

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

This product includes software, Apache Log4j, developed by Apache Software Foundation (<http://www.apache.org>).

This product includes software, Apache Groovy, developed by Apache Software Foundation (<http://groovy-lang.org>).

This product includes software, SLF4J API Module, developed by QOS.ch (<http://www.qos.ch>).

This product includes software, SLF4J LOG4J-12 Binding, developed by QOS.ch (<http://www.qos.ch>).

```
zeppelin-interpreter-0.8.1.jar
// -----
// NOTICE file corresponding to the section 4d of The Apache License,
// Version 2.0, in this case for Zeppelin: Interpreter
// -----
```

Zeppelin: Interpreter

Copyright 2013-2019 The Apache Software Foundation

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

This product includes software, Gson, developed by Google, Inc.
(<http://www.google.com>).

This product includes software, Commons Codec, developed by The Apache Software Foundation (<http://www.apache.org/>).

This product includes software, Commons Configuration, developed by The Apache Software Foundation (<http://www.apache.org/>).

This product includes software, HttpClient, developed by Apache Software Foundation (<http://jakarta.apache.org/>).

This product includes software, Commons IO, developed by The Apache Software Foundation (<http://www.apache.org/>).

This product includes software, Commons Lang, developed by The Apache Software Foundation (<http://www.apache.org/>).

This product includes software, Commons Logging, developed by The Apache Software Foundation (<http://www.apache.org/>).

This product includes software, JLine, developed by
\$project.organization.name ([\\$project.organization.url]($project.organization.url)).

This product includes software, Apache Log4j, developed by Apache Software Foundation (<http://www.apache.org/>).

This product includes software, Apache Commons Exec, developed by The Apache Software Foundation (<http://www.apache.org/>).

This product includes software, Apache Commons Lang, developed by The Apache Software Foundation (<http://www.apache.org/>).

This product includes software, Apache Commons Pool, developed by The Apache Software Foundation (<http://www.apache.org/>).

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

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

This product includes software, Maven Aether Provider, developed by The Apache Software Foundation (<http://www.apache.org/>).

This product includes software, Maven Artifact, developed by The Apache Software Foundation (<http://www.apache.org/>).

This product includes software, Maven Model, developed by The Apache Software Foundation (<http://www.apache.org/>).

This product includes software, Maven Model Builder, developed by The Apache Software Foundation (<http://www.apache.org/>).

This product includes software, Maven Plugin API, developed by The Apache Software Foundation (<http://www.apache.org/>).

This product includes software, Maven Repository Metadata Model, developed by The Apache Software Foundation (<http://www.apache.org/>).

This product includes software, Maven Wagon HTTP Provider, developed by The

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

This product includes software, Maven Wagon Lightweight HTTP Provider, developed by The Apache Software Foundation (<http://www.apache.org/>).

This product includes software, Maven Wagon HTTP Shared Library, developed by The Apache Software Foundation (<http://www.apache.org/>).

This product includes software, Maven Wagon API, developed by The Apache Software Foundation (<http://www.apache.org/>).

This product includes software, Apache Thrift, developed by \$project.organization.name ([\\$project.organization.url]($project.organization.url)).

This product includes software, Bouncy Castle PKIX, CMS, EAC, TSP, PKCS, OCSP, CMP, and CRMF APIs, developed by \$project.organization.name ([\\$project.organization.url]($project.organization.url)).

This product includes software, Bouncy Castle Provider, developed by \$project.organization.name ([\\$project.organization.url]($project.organization.url)).

This product includes software, Plexus Classworlds, developed by Codehaus (<http://www.codehaus.org/>).

This product includes software, Plexus :: Component Annotations, developed by Codehaus (<http://www.codehaus.org/>).

This product includes software, Plexus Interpolation API, developed by Codehaus (<http://www.codehaus.org/>).

This product includes software, Plexus Common Utilities, developed by Codehaus (<http://www.codehaus.org/>).

This product includes software, gson-extras, developed by \$project.organization.name ([\\$project.organization.url]($project.organization.url)).

This product includes software, jsoup, developed by Jonathan Hedley (<http://jonathanhedley.com/>).

This product includes software, SLF4J API Module, developed by QOS.ch (<http://www.qos.ch>).

This product includes software, SLF4J LOG4J-12 Binding, developed by QOS.ch (<http://www.qos.ch>).

This product includes software, Aether :: API, developed by Sonatype, Inc. (<http://www.sonatype.com/>).

This product includes software, Aether :: Connector :: File, developed by Sonatype, Inc. (<http://www.sonatype.com/>).

This product includes software, Aether :: Connector :: Wagon, developed by Sonatype, Inc. (<http://www.sonatype.com/>).

This product includes software, Aether :: Implementation, developed by Sonatype, Inc. (<http://www.sonatype.com/>).

This product includes software, Aether :: SPI, developed by Sonatype, Inc. (<http://www.sonatype.com/>).

This product includes software, Aether :: Utilities, developed by Sonatype,

Inc. (<http://www.sonatype.com/>).

This product includes software, Google Guice - Core Library, developed by Google, Inc. (<http://www.google.com>).

This product includes software, Sisu-Inject-Bean : Aggregate OSGi bundle, developed by Sonatype, Inc. (<http://www.sonatype.com>).

This product includes software, Sisu-Inject-Plexus : Aggregate OSGi bundle, developed by Sonatype, Inc. (<http://www.sonatype.com>).

zeppelin-jdbc-0.8.1.jar

```
// -----  
// NOTICE file corresponding to the section 4d of The Apache License,  
// Version 2.0, in this case for Zeppelin: JDBC interpreter  
// -----
```

Zeppelin: JDBC interpreter

Copyright 2013-2019 The Apache Software Foundation

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

This product includes software, Commons Logging, developed by The Apache Software Foundation (<http://www.apache.org/>).

This product includes software, Apache Log4j, developed by Apache Software Foundation (<http://www.apache.org>).

This product includes software, Apache Commons DBCP, developed by The Apache Software Foundation (<http://www.apache.org/>).

This product includes software, Apache Commons Pool, developed by The Apache Software Foundation (<http://www.apache.org/>).

This product includes software, PostgreSQL JDBC Driver, developed by \$project.organization.name (\$project.organization.url).

This product includes software, SLF4J API Module, developed by QOS.ch (<http://www.qos.ch>).

This product includes software, SLF4J LOG4J-12 Binding, developed by QOS.ch (<http://www.qos.ch>).

Zeppelin-python-0.8.1.jar

```
// -----  
// NOTICE file corresponding to the section 4d of The Apache License,  
// Version 2.0, in this case for Zeppelin: Python interpreter  
// -----
```

Zeppelin: Python interpreter

Copyright 2013-2019 The Apache Software Foundation

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

This product includes software, com.google.api.grpc:proto-google-common-protos, developed by \$project.organization.name (\$project.organization.url).

This product includes software, FindBugs-jsr305, developed by \$project.organization.name (\$project.organization.url).

This product includes software, Gson, developed by Google, Inc. (<http://www.google.com>).

This product includes software, error-prone annotations, developed by \$project.organization.name (\$project.organization.url).

This product includes software, Guava: Google Core Libraries for Java, developed by \$project.organization.name (\$project.organization.url).

This product includes software, Instrumentation, developed by \$project.organization.name (\$project.organization.url).

This product includes software, Protocol Buffers [Core], developed by Google (<http://www.google.com/>).

This product includes software, Protocol Buffers [Util], developed by Google (<http://www.google.com/>).

This product includes software, io.grpc:grpc-context, developed by \$project.organization.name (\$project.organization.url).

This product includes software, io.grpc:grpc-core, developed by \$project.organization.name (\$project.organization.url).

This product includes software, io.grpc:grpc-netty, developed by \$project.organization.name (\$project.organization.url).

This product includes software, io.grpc:grpc-protobuf, developed by \$project.organization.name (\$project.organization.url).

This product includes software, io.grpc:grpc-protobuf-lite, developed by \$project.organization.name (\$project.organization.url).

This product includes software, io.grpc:grpc-stub, developed by \$project.organization.name (\$project.organization.url).

This product includes software, Netty/Buffer, developed by The Netty Project (<http://netty.io/>).

This product includes software, Netty/Codec, developed by The Netty Project (<http://netty.io/>).

This product includes software, Netty/Codec/HTTP, developed by The Netty Project (<http://netty.io/>).

This product includes software, Netty/Codec/HTTP2, developed by The Netty Project (<http://netty.io/>).

This product includes software, Netty/Codec/Socks, developed by The Netty Project (<http://netty.io/>).

This product includes software, Netty/Common, developed by The Netty Project (<http://netty.io/>).

This product includes software, Netty/Handler, developed by The Netty Project (<http://netty.io/>).

This product includes software, Netty/Handler/Proxy, developed by

The Netty Project (<http://netty.io/>).

This product includes software, Netty/Resolver, developed by The Netty Project (<http://netty.io/>).

This product includes software, Netty/Transport, developed by The Netty Project (<http://netty.io/>).

This product includes software, Apache Log4j, developed by Apache Software Foundation (<http://www.apache.org>).

This product includes software, Py4J, developed by
\$project.organization.name ([\\$project.organization.url]($project.organization.url)).

This product includes software, Apache Commons Exec, developed by The Apache Software Foundation (<http://www.apache.org/>).

This product includes software, SLF4J API Module, developed by QOS.ch (<http://www.qos.ch>).

This product includes software, SLF4J LOG4J-12 Binding, developed by QOS.ch (<http://www.qos.ch>).

```
zeppelin-shell-0.8.1.jar
// -----
// NOTICE file corresponding to the section 4d of The Apache License,
// Version 2.0, in this case for Zeppelin: Shell interpreter
// -----
```

Zeppelin: Shell interpreter

Copyright 2013-2019 The Apache Software Foundation

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

This product includes software, Gson, developed by Google, Inc. (<http://www.google.com>).

This product includes software, Commons Codec, developed by The Apache Software Foundation (<http://www.apache.org/>).

This product includes software, Commons Configuration, developed by The Apache Software Foundation (<http://www.apache.org/>).

This product includes software, HttpClient, developed by Apache Software Foundation (<http://jakarta.apache.org/>).

This product includes software, Commons IO, developed by The Apache Software Foundation (<http://www.apache.org/>).

This product includes software, Commons Lang, developed by The Apache Software Foundation (<http://www.apache.org/>).

This product includes software, Commons Logging, developed by The Apache Software Foundation (<http://www.apache.org/>).

This product includes software, JLine, developed by \$project.organization.name ([\\$project.organization.url]($project.organization.url)).

This product includes software, Apache Log4j, developed by Apache Software

Foundation (<http://www.apache.org>).

This product includes software, Apache Commons Exec, developed by The Apache Software Foundation (<http://www.apache.org/>).

This product includes software, Apache Commons Lang, developed by The Apache Software Foundation (<http://www.apache.org/>).

This product includes software, Apache Commons Pool, developed by The Apache Software Foundation (<http://www.apache.org/>).

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

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

This product includes software, Maven Aether Provider, developed by The Apache Software Foundation (<http://www.apache.org/>).

This product includes software, Maven Artifact, developed by The Apache Software Foundation (<http://www.apache.org/>).

This product includes software, Maven Model, developed by The Apache Software Foundation (<http://www.apache.org/>).

This product includes software, Maven Model Builder, developed by The Apache Software Foundation (<http://www.apache.org/>).

This product includes software, Maven Plugin API, developed by The Apache Software Foundation (<http://www.apache.org/>).

This product includes software, Maven Repository Metadata Model, developed by The Apache Software Foundation (<http://www.apache.org/>).

This product includes software, Maven Wagon HTTP Provider, developed by The Apache Software Foundation (<http://www.apache.org/>).

This product includes software, Maven Wagon Lightweight HTTP Provider, developed by The Apache Software Foundation (<http://www.apache.org/>).

This product includes software, Maven Wagon HTTP Shared Library, developed by The Apache Software Foundation (<http://www.apache.org/>).

This product includes software, Maven Wagon API, developed by The Apache Software Foundation (<http://www.apache.org/>).

This product includes software, Apache Thrift, developed by \$project.organization.name ([\\$project.organization.url]($project.organization.url)).

This product includes software, Zeppelin: Interpreter, developed by \$project.organization.name ([\\$project.organization.url]($project.organization.url)).

This product includes software, Bouncy Castle PKIX, CMS, EAC, TSP, PKCS, OCSP, CMP, and CRMF APIs, developed by \$project.organization.name ([\\$project.organization.url]($project.organization.url)).

This product includes software, Bouncy Castle Provider, developed by \$project.organization.name ([\\$project.organization.url]($project.organization.url)).

This product includes software, Plexus Classworlds, developed by Codehaus (<http://www.codehaus.org/>).

This product includes software, Plexus :: Component Annotations, developed by Codehaus (<http://www.codehaus.org/>).

This product includes software, Plexus Interpolation API, developed by Codehaus (<http://www.codehaus.org/>).

This product includes software, Plexus Common Utilities, developed by Codehaus (<http://www.codehaus.org/>).

This product includes software, gson-extras, developed by \$project.organization.name ([\\$project.organization.url]($project.organization.url)).

This product includes software, jsoup, developed by Jonathan Hedley (<http://jonathanhedley.com/>).

This product includes software, SLF4J API Module, developed by QOS.ch (<http://www.qos.ch>).

This product includes software, SLF4J LOG4J-12 Binding, developed by QOS.ch (<http://www.qos.ch>).

This product includes software, Aether :: API, developed by Sonatype, Inc. (<http://www.sonatype.com/>).

This product includes software, Aether :: Connector :: File, developed by Sonatype, Inc. (<http://www.sonatype.com/>).

This product includes software, Aether :: Connector :: Wagon, developed by Sonatype, Inc. (<http://www.sonatype.com/>).

This product includes software, Aether :: Implementation, developed by Sonatype, Inc. (<http://www.sonatype.com/>).

This product includes software, Aether :: SPI, developed by Sonatype, Inc. (<http://www.sonatype.com/>).

This product includes software, Aether :: Utilities, developed by Sonatype, Inc. (<http://www.sonatype.com/>).

This product includes software, Google Guice - Core Library, developed by Google, Inc. (<http://www.google.com>).

This product includes software, Sisu-Inject-Bean : Aggregate OSGi bundle, developed by Sonatype, Inc. (<http://www.sonatype.com>).

This product includes software, Sisu-Inject-Plexus : Aggregate OSGi bundle, developed by Sonatype, Inc. (<http://www.sonatype.com>).

```
zeppelin-spark-dependencies-0.8.1.jar
// -----
// NOTICE file corresponding to the section 4d of The Apache License,
// Version 2.0, in this case for Zeppelin: Spark dependencies
// -----
```

Zeppelin: Spark dependencies

Copyright 2013-2019 The Apache Software Foundation

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

This product includes software, AntLR Parser Generator, developed by \$project.organization.name ([\\$project.organization.url]($project.organization.url)).

This product includes software, AOP alliance, developed by \$project.organization.name ([\\$project.organization.url]($project.organization.url)).

This product includes software, core, developed by com.chuusai (<https://github.com/milessabin/shapeless>).

This product includes software, stream-lib, developed by \$project.organization.name ([\\$project.organization.url]($project.organization.url)).

This product includes software, Kryo Shaded, developed by \$project.organization.name ([\\$project.organization.url]($project.organization.url)).

This product includes software, MinLog, developed by \$project.organization.name ([\\$project.organization.url]($project.organization.url)).

This product includes software, Jackson-annotations, developed by FasterXML (<http://fasterxml.com/>).

This product includes software, Jackson-core, developed by FasterXML (<http://fasterxml.com/>).

This product includes software, jackson-databind, developed by FasterXML (<http://fasterxml.com/>).

This product includes software, Jackson-module-paranamer, developed by FasterXML (<http://fasterxml.com/>).

This product includes software, jackson-module-scala, developed by com.fasterxml.jackson.module ([\\$project.organization.url]($project.organization.url)).

This product includes software, core, developed by \$project.organization.name ([\\$project.organization.url]($project.organization.url)).

This product includes software, JTransforms, developed by \$project.organization.name ([\\$project.organization.url]($project.organization.url)).

This product includes software, FindBugs-jsr305, developed by \$project.organization.name ([\\$project.organization.url]($project.organization.url)).

This product includes software, Gson, developed by Google, Inc. (<http://www.google.com>).

This product includes software, Guava: Google Core Libraries for Java, developed by \$project.organization.name ([\\$project.organization.url]($project.organization.url)).

This product includes software, Google Guice - Core Library, developed by Google, Inc. (<http://www.google.com>).

This product includes software, Google Guice - Extensions - Servlet, developed by Google, Inc. (<http://www.google.com>).

This product includes software, Protocol Buffer Java API, developed by Google (<http://www.google.com/>).

This product includes software, JavaEWAH, developed by
\$project.organization.name ([\\$project.organization.url](#)).

This product includes software, BoneCP :: Core Library, developed by JolBox
(<http://jolbox.com>).

This product includes software, Compress-LZF, developed by
\$project.organization.name ([\\$project.organization.url](#)).

This product includes software, jersey-client, developed by Oracle
Corporation (<http://www.oracle.com/>).

This product includes software, jersey-core, developed by Oracle Corporation
(<http://www.oracle.com/>).

This product includes software, jersey-json, developed by Oracle Corporation
(<http://www.oracle.com/>).

This product includes software, jersey-server, developed by Oracle Corporation
(<http://www.oracle.com/>).

This product includes software, jersey-guice, developed by Oracle Corporation
(<http://www.oracle.com/>).

This product includes software, JAXB RI, developed by Oracle Corporation
(<http://www.oracle.com/>).

This product includes software, ParaNamer Core, developed by
\$project.organization.name ([\\$project.organization.url](#)).

This product includes software, chill-java, developed by com.twitter
([\\$project.organization.url](#)).

This product includes software, chill, developed by com.twitter
([\\$project.organization.url](#)).

This product includes software, Apache Parquet Hadoop Bundle (Incubating),
developed by The Apache Software Foundation (<http://www.apache.org/>).

This product includes software, univocity-parsers, developed by uniVocity
Software Pty Ltd (www.univocity.com).

This product includes software, Apache Commons CLI, developed by The Apache
Software Foundation (<http://www.apache.org/>).

This product includes software, Commons Codec, developed by The Apache
Software Foundation (<http://www.apache.org/>).

This product includes software, Apache Commons Collections, developed by
The Apache Software Foundation (<http://www.apache.org/>).

This product includes software, Commons Configuration, developed by The Apache
Software Foundation (<http://www.apache.org/>).

This product includes software, Commons DBCP, developed by The Apache Software
Foundation (<http://www.apache.org/>).

This product includes software, HttpClient, developed by Apache Software
Foundation (<http://jakarta.apache.org/>).

This product includes software, Commons IO, developed by The Apache Software

Foundation (<http://www.apache.org/>).

This product includes software, Commons Lang, developed by The Apache Software Foundation (<http://www.apache.org/>).

This product includes software, Commons Logging, developed by The Apache Software Foundation (<http://www.apache.org/>).

This product includes software, Commons Net, developed by The Apache Software Foundation (<http://www.apache.org/>).

This product includes software, Commons Pool, developed by The Apache Software Foundation (<http://www.apache.org/>).

This product includes software, Metrics Core, developed by
\$project.organization.name ([\\$project.organization.url]($project.organization.url)).

This product includes software, Graphite Integration for Metrics, developed by
\$project.organization.name ([\\$project.organization.url]($project.organization.url)).

This product includes software, Jackson Integration for Metrics, developed by
\$project.organization.name ([\\$project.organization.url]($project.organization.url)).

This product includes software, JVM Integration for Metrics, developed by
\$project.organization.name ([\\$project.organization.url]($project.organization.url)).

This product includes software, Netty, developed by The Netty Project
(<http://netty.io/>).

This product includes software, Netty/All-in-One, developed by The Netty
Project (<http://netty.io/>).

This product includes software, JavaBeans Activation Framework (JAF), developed
by \$project.organization.name ([\\$project.organization.url]($project.organization.url)).

This product includes software, javax.annotation API, developed by GlassFish
Community (<https://glassfish.java.net>).

This product includes software, javax.inject, developed by
\$project.organization.name ([\\$project.organization.url]($project.organization.url)).

This product includes software, JDO API, developed by Apache Software Foundation
(<http://www.apache.org/>).

This product includes software, Java Servlet API, developed by GlassFish
Community
(<https://glassfish.dev.java.net>).

This product includes software, jsp-api, developed by \$project.organization.name
([\\$project.organization.url]($project.organization.url)).

This product includes software, Java Transaction API, developed by
\$project.organization.name ([\\$project.organization.url]($project.organization.url)).

This product includes software, Bean Validation API, developed by
\$project.organization.name ([\\$project.organization.url]($project.organization.url)).

This product includes software, javax.ws.rs-api, developed by Oracle Corporation
(<http://www.oracle.com/>).

This product includes software, JAXB API bundle for GlassFish V3, developed by Oracle Corporation (<http://www.oracle.com/>).

This product includes software, Streaming API for XML, developed by \$project.organization.name ([\\$project.organization.url]($project.organization.url)).

This product includes software, Javolution, developed by Javolution (<http://javolution.org>).

This product includes software, JLine, developed by \$project.organization.name ([\\$project.organization.url]($project.organization.url)).

This product includes software, Joda-Time, developed by Joda.org (<http://www.joda.org>).

This product includes software, Apache Extras for Apache log4j., developed by The Apache Software Foundation (<http://www.apache.org/>).

This product includes software, Apache Log4j, developed by Apache Software Foundation (<http://www.apache.org>).

This product includes software, eigenbase-properties, developed by Julian Hyde (<http://www.hydromatic.net>).

This product includes software, An open source Java toolkit for Amazon S3, developed by \$project.organization.name ([\\$project.organization.url]($project.organization.url)).

This product includes software, LZ4 and xxHash, developed by \$project.organization.name ([\\$project.organization.url]($project.organization.url)).

This product includes software, pyrolite, developed by \$project.organization.name ([\\$project.organization.url]($project.organization.url)).

This product includes software, openscv, developed by \$project.organization.name ([\\$project.organization.url]($project.organization.url)).

This product includes software, Py4J, developed by \$project.organization.name ([\\$project.organization.url]($project.organization.url)).

This product includes software, Fortran to Java ARPACK, developed by \$project.organization.name ([\\$project.organization.url]($project.organization.url)).

This product includes software, ANTLR ST4 4.0.4, developed by \$project.organization.name ([\\$project.organization.url]($project.organization.url)).

This product includes software, Antlr 3.4 Runtime, developed by \$project.organization.name ([\\$project.organization.url]($project.organization.url)).

This product includes software, ANTLR 4 Runtime, developed by ANTLR (<http://www.antlr.org>).

This product includes software, ANTLR StringTemplate, developed by \$project.organization.name ([\\$project.organization.url]($project.organization.url)).

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

This product includes software, Apache Avro IPC, developed by The Apache

Software
Foundation (<http://www.apache.org/>).

This product includes software, Apache Avro IPC, developed by The Apache
Software
Foundation (<http://www.apache.org/>).

This product includes software, Apache Avro Mapred API, developed by The Apache
Software Foundation (<http://www.apache.org/>).

This product includes software, Calcite Avatica, developed by The Apache
Software
Foundation (<http://www.apache.org/>).

This product includes software, Calcite Core, developed by The Apache Software
Foundation (<http://www.apache.org/>).

This product includes software, Calcite Linq4j, developed by The Apache Software
Foundation (<http://www.apache.org/>).

This product includes software, Commons Compress, developed by The Apache
Software
Foundation (<http://www.apache.org/>).

This product includes software, Apache Commons Crypto, developed by The Apache
Software Foundation (<http://www.apache.org/>).

This product includes software, Apache Commons Lang, developed by The Apache
Software
Foundation (<https://www.apache.org/>).

This product includes software, Apache Commons Math, developed by The Apache
Software
Foundation (<http://www.apache.org/>).

This product includes software, Curator Client, developed by The Apache Software
Foundation (<http://www.apache.org/>).

This product includes software, Curator Framework, developed by The Apache
Software
Foundation (<http://www.apache.org/>).

This product includes software, Curator Recipes, developed by The Apache
Software
Foundation (<http://www.apache.org/>).

This product includes software, Apache Derby Database Engine and Embedded JDBC
Driver,
developed by Apache Software Foundation (<http://db.apache.org/>).

This product includes software, Apache Directory API ASN.1 API, developed by The
Apache
Software Foundation (<http://www.apache.org/>).

This product includes software, Apache Directory LDAP API Utilities, developed
by The
Apache Software Foundation (<http://www.apache.org/>).

This product includes software, ApacheDS I18n, developed by The Apache Software
Foundation (<http://www.apache.org/>).

This product includes software, ApacheDS Protocol Kerberos Codec, developed by The Apache Software Foundation (<http://www.apache.org/>).

This product includes software, Apache Hadoop Annotations, developed by Apache Software Foundation (<http://www.apache.org/>).

This product includes software, Apache Hadoop Auth, developed by Apache Software Foundation (<http://www.apache.org/>).

This product includes software, Apache Hadoop Client, developed by Apache Software Foundation (<http://www.apache.org/>).

This product includes software, Apache Hadoop Common, developed by Apache Software Foundation (<http://www.apache.org/>).

This product includes software, Apache Hadoop HDFS, developed by Apache Software Foundation (<http://www.apache.org/>).

This product includes software, hadoop-mapreduce-client-app, developed by Apache Software Foundation (<http://www.apache.org/>).

This product includes software, hadoop-mapreduce-client-common, developed by Apache Software Foundation (<http://www.apache.org/>).

This product includes software, hadoop-mapreduce-client-core, developed by Apache Software Foundation (<http://www.apache.org/>).

This product includes software, hadoop-mapreduce-client-jobclient, developed by Apache Software Foundation (<http://www.apache.org/>).

This product includes software, hadoop-mapreduce-client-shuffle, developed by Apache Software Foundation (<http://www.apache.org/>).

This product includes software, hadoop-yarn-api, developed by Apache Software Foundation (<http://www.apache.org/>).

This product includes software, hadoop-yarn-client, developed by Apache Software Foundation (<http://www.apache.org/>).

This product includes software, hadoop-yarn-common, developed by Apache Software Foundation (<http://www.apache.org/>).

This product includes software, hadoop-yarn-server-common, developed by Apache Software Foundation (<http://www.apache.org/>).

This product includes software, hadoop-yarn-server-web-proxy, developed by Apache Software Foundation (<http://www.apache.org/>).

This product includes software, htrace-core, developed by The Apache Software Foundation (<http://www.apache.org/>).

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

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

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

This product includes software, Apache Parquet Column, developed by The Apache Software Foundation (<http://www.apache.org/>).

This product includes software, Apache Parquet Common, developed by The Apache Software Foundation (<http://www.apache.org/>).

This product includes software, Apache Parquet Encodings, developed by The Apache Software Foundation (<http://www.apache.org/>).

This product includes software, Apache Parquet Format, developed by The Apache Software Foundation (<http://www.apache.org/>).

This product includes software, Apache Parquet Hadoop, developed by The Apache Software Foundation (<http://www.apache.org/>).

This product includes software, Apache Parquet Jackson, developed by The Apache Software Foundation (<http://www.apache.org/>).

This product includes software, Spark Project Catalyst, developed by The Apache Software Foundation (<https://www.apache.org/>).

This product includes software, Spark Project Core, developed by The Apache Software Foundation (<https://www.apache.org/>).

This product includes software, Spark Project GraphX, developed by The Apache Software Foundation (<https://www.apache.org/>).

This product includes software, Spark Project Hive, developed by The Apache Software Foundation (<https://www.apache.org/>).

This product includes software, Spark Project Launcher, developed by The Apache Software Foundation (<https://www.apache.org/>).

This product includes software, Spark Project ML Local Library, developed by The Apache Software Foundation (<https://www.apache.org/>).

This product includes software, Spark Project ML Library, developed by The Apache Software Foundation (<https://www.apache.org/>).

Foundation (<https://www.apache.org/>).

This product includes software, Spark Project Networking, developed by The Apache Software Foundation (<https://www.apache.org/>).

This product includes software, Spark Project Shuffle Streaming Service, developed by The Apache Software Foundation (<https://www.apache.org/>).

This product includes software, Spark Project REPL, developed by The Apache Software Foundation (<https://www.apache.org/>).

This product includes software, Spark Project Sketch, developed by The Apache Software Foundation (<https://www.apache.org/>).

This product includes software, Spark Project SQL, developed by The Apache Software Foundation (<https://www.apache.org/>).

This product includes software, Spark Project Streaming, developed by The Apache Software Foundation (<https://www.apache.org/>).

This product includes software, Spark Project Tags, developed by The Apache Software Foundation (<https://www.apache.org/>).

This product includes software, Spark Project Unsafe, developed by The Apache Software Foundation (<https://www.apache.org/>).

This product includes software, Spark Project YARN, developed by The Apache Software Foundation (<https://www.apache.org/>).

This product includes software, Apache Thrift, developed by \$project.organization.name ([\\$project.organization.url]($project.organization.url)).

This product includes software, Apache Thrift, developed by \$project.organization.name ([\\$project.organization.url]($project.organization.url)).

This product includes software, Apache XBean :: ASM 5 shaded (repackaged), developed by The Apache Software Foundation (<http://www.apache.org>).

This product includes software, zookeeper, developed by \$project.organization.name ([\\$project.organization.url]($project.organization.url)).

This product includes software, Jackson, developed by FasterXML (<http://fasterxml.com>).

This product includes software, JAX-RS provider for JSON content type, developed by FasterXML (<http://fasterxml.com>).

This product includes software, Data Mapper for Jackson, developed by FasterXML

(<http://fasterxml.com>).

This product includes software, Xml Compatibility extensions for Jackson, developed by FasterXML (<http://fasterxml.com>).

This product includes software, Commons Compiler, developed by `$project.organization.name` (`$project.organization.url`).

This product includes software, Janino, developed by `$project.organization.name` (`$project.organization.url`).

This product includes software, Jettison, developed by `$project.organization.name` (`$project.organization.url`).

This product includes software, DataNucleus JDO API plugin, developed by `$project.organization.name` (`$project.organization.url`).

This product includes software, DataNucleus Core, developed by `$project.organization.name` (`$project.organization.url`).

This product includes software, DataNucleus RDBMS, developed by `$project.organization.name` (`$project.organization.url`).

This product includes software, leveldbjni-all, developed by FuseSource, Corp. (<http://fusesource.com/>).

This product includes software, HK2 API module, developed by Oracle Corporation (<http://www.oracle.com>).

This product includes software, ServiceLocator Default Implementation, developed by Oracle Corporation (<http://www.oracle.com>).

This product includes software, HK2 Implementation Utilities, developed by Oracle Corporation (<http://www.oracle.com>).

This product includes software, OSGi resource locator bundle - used by various API providers that rely on META-INF/services mechanism to locate providers., developed by GlassFish Community (<https://glassfish.dev.java.net>).

This product includes software, aopalliance version 1.0 repackaged as a module, developed by Oracle Corporation (<http://www.oracle.com>).

This product includes software, javax.inject:1 as OSGi bundle, developed by Oracle Corporation (<http://www.oracle.com>).

This product includes software, jersey-repackaged-guava, developed by Oracle Corporation (<http://www.oracle.com/>).

This product includes software, jersey-container-servlet, developed by Oracle Corporation (<http://www.oracle.com/>).

This product includes software, jersey-container-servlet-core, developed by Oracle Corporation (<http://www.oracle.com/>).

This product includes software, jersey-core-client, developed by Oracle Corporation (<http://www.oracle.com/>).

This product includes software, jersey-core-common, developed by Oracle Corporation (<http://www.oracle.com/>).

This product includes software, jersey-core-server, developed by Oracle Corporation (<http://www.oracle.com/>).

This product includes software, jersey-media-jaxb, developed by Oracle Corporation (<http://www.oracle.com/>).

This product includes software, snappy, developed by \$project.organization.name ([\\$project.organization.url]($project.organization.url)).

This product includes software, Javassist, developed by \$project.organization.name ([\\$project.organization.url]($project.organization.url)).

This product includes software, Jodd Core, developed by Jodd (<http://jodd.org>).

This product includes software, JPMML class model, developed by University of Tartu (<http://www.ut.ee/en>).

This product includes software, JPMML schema, developed by University of Tartu (<http://www.ut.ee/en>).

This product includes software, json4s-ast, developed by org.json4s (<https://github.com/json4s/json4s>).

This product includes software, json4s-core, developed by org.json4s (<https://github.com/json4s/json4s>).

This product includes software, json4s-jackson, developed by org.json4s (<https://github.com/json4s/json4s>).

This product includes software, Jetty Server, developed by Mort Bay Consulting (<http://www.mortbay.com>).

This product includes software, Jetty Utilities, developed by Mort Bay Consulting (<http://www.mortbay.com>).

This product includes software, Objenesis, developed by Joe Walnes, Henri Tremblay, Leonardo Mesquita ([\\$project.organization.url]($project.organization.url)).

This product includes software, RoaringBitmap, developed by \$project.organization.name ([\\$project.organization.url]($project.organization.url)).

This product includes software, Scala Compiler, developed by LAMP/EPFL (<http://lamp.epfl.ch/>).

This product includes software, Scala Library, developed by LAMP/EPFL (<http://lamp.epfl.ch/>).

This product includes software, Scala Compiler, developed by LAMP/EPFL

(<http://lamp.epfl.ch/>).

This product includes software, Scalap, developed by LAMP/EPFL (<http://lamp.epfl.ch/>).

This product includes software, scala-parser-combinators, developed by org.scala-lang.modules (<http://www.scala-lang.org/>).

This product includes software, scala-xml, developed by org.scala-lang.modules (<http://www.scala-lang.org/>).

This product includes software, breeze-macros, developed by org.scalanlp ([\\$project.organization.url](#)).

This product includes software, breeze, developed by org.scalanlp ([\\$project.organization.url](#)).

This product includes software, JCL 1.1.1 implemented over SLF4J, developed by QOS.ch (<http://www.qos.ch>).

This product includes software, JUL to SLF4J bridge, developed by QOS.ch (<http://www.qos.ch>).

This product includes software, SLF4J API Module, developed by QOS.ch (<http://www.qos.ch>).

This product includes software, SLF4J LOG4J-12 Binding, developed by QOS.ch (<http://www.qos.ch>).

This product includes software, Hive Query Language, developed by The Apache Software Foundation (<http://www.apache.org/>).

This product includes software, Hive Metastore, developed by The Apache Software Foundation (<http://www.apache.org/>).

This product includes software, empty, developed by [\\$project.organization.name](#) ([\\$project.organization.url](#)).

This product includes software, macros, developed by org.spire-math (<http://spire-math.org>).

This product includes software, core, developed by org.spire-math (<http://spire-math.org>).

This product includes software, XZ for Java, developed by [\\$project.organization.name](#) ([\\$project.organization.url](#)).

This product includes software, machinist, developed by org.typelevel (<http://github.com/typelevel/machinist>).

This product includes software, core, developed by org.typelevel (<https://github.com/milessabin/macro-compat>).

This product includes software, snappy-java, developed by xerial.org ([\\$project.organization.url](#)).

This product includes software, oro, developed by [\\$project.organization.name](#) ([\\$project.organization.url](#)).

This product includes software, StAX API, developed

by \$project.organization.name
(\$project.organization.url).

This product includes software, Xerces2 Java Parser, developed by The Apache Software Foundation (<http://www.apache.org/>).

This product includes software, XML Commons External Components XML APIs, developed by Apache Software Foundation (<http://www.apache.org/>).

This product includes software, xmlenc Library, developed
by \$project.organization.name
(\$project.organization.url).

+++++

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.

=====

APACHE ZEPPELIN SUBCOMPONENTS:

The Apache Zeppelin project contains subcomponents with separate copyright notices and license terms. Your use of the source code for these subcomponents is subject to the terms and conditions of the following licenses.

=====

commons-io-2.6.jar Apache Commons IO

Copyright 2002-2010 The Apache Software Foundation

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

commons-lang3-3.8.1.jar Apache Commons Lang

Copyright 2001-2018 The Apache Software Foundation

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

libthrift-0.9.3-1.jar Apache Thrift

Copyright 2006-2010 The Apache Software Foundation.

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

aether-api-1.12.jar
aether-connector-file-1.12.jar
aether-connector-wagon-1.12.jar
aether-impl-1.12.jar
aether-spi-1.12.jar
aether-util-1.12.jar

/*****

* Copyright (c) 2010-2011 Sonatype, Inc.

* All rights reserved. This program and the accompanying materials are made available under the terms of the Eclipse Public License v1.0 which accompanies this distribution, and is available at <http://www.eclipse.org/legal/epl-v10.html>

*****/

asm-3.3.1.jar /***

* ASM: a very small and fast Java bytecode manipulation framework

Copyright (c) 2000-2007 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.

/ bcpkix-jdk15on-1.61.jar

bcprov-jdk15on-1.61.jar

Copyright (c) 2000-2019

The Legion of the Bouncy Castle Inc. (<http://www.bouncycastle.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.

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.

cglib-2.2.1-v20090111

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

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.

commons-codec-1.12.jar Apache Commons Codec

Copyright 2002-2017 The Apache Software Foundation

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

src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java contains test data from <http://aspell.net/test/orig/batch0.tab>.

Copyright (C) 2002

Kevin Atkinson (kevin@gnu.org)

=====

The content of package org.apache.commons.codec.language.bm has been translated from the original php source code available at <http://stevemorse.org/phoneticinfo.htm> with permission from the original authors.

Original source copyright: Copyright (c) 2008 Alexander Beider & Stephen P. Morse.

commons-configuration-1.9.jar Apache Commons Configuration

Copyright 2001-2012 The Apache Software Foundation

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

commons-dbc2-2.0.1.jar Apache Commons DBCP

Copyright 2001-2014 The Apache Software Foundation

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

commons-exec-1.3.jar Apache Commons Exec

Copyright 2005-2014 The Apache Software Foundation

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

commons-httpclient-3.1.jar Apache Jakarta HttpClient

Copyright 1999-2007 The Apache Software Foundation

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

commons-lang-2.6.jar Apache Commons Lang

Copyright 2001-2011 The Apache Software Foundation

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

commons-logging-1.2.jar Apache Commons Logging

Copyright 2003-2014 The Apache Software Foundation

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

commons-pool2-2.3.jar Apache Commons Pool

Copyright 2001-2014 The Apache Software Foundation

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

datanucleus-api-jdo-3.2.6.jar
datanucleus-core-3.2.10.jar
datanucleus-rdbms-3.2.9.jar

=====

== NOTICE file corresponding to section 4(d) of the Apache License, ==
== Version 2.0, in this case for the DataNucleus distribution. ==

=====

This product includes software developed by many individuals, including the
following:

Erik Bengtson
Andy Jefferson

=====

groovy-all-2.4.15.jar Apache Groovy

Copyright 2003-2018 The Apache Software Foundation

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

This product bundles icons from the famfamfam.com silk icons set <http://www.famfamfam.com/lab/icons/silk/>

Licensed under the Creative Commons Attribution Licence v2.5 <http://creativecommons.org/licenses/by/2.5/>

grpc-context-1.4.0.jar
grpc-core-1.4.0.jar
grpc-netty-1.4.0.jar
grpc-protobuf-1.4.0.jar
grpc-protobuf-lite-1.4.0.jar
grpc-stub-1.4.0.jar

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.

This product contains a modified portion of 'OkHttp', an open source HTTP & SPDY client for Android and Java applications, which can be obtained at:

* LICENSE: * okhttp/third_party/okhttp/LICENSE (Apache License 2.0)
* HOMEPAGE: * <https://github.com/square/okhttp>
* LOCATION_IN_GRPC: * okhttp/third_party/okhttp

This product contains a modified portion of 'Netty', an open source networking library, which can be obtained at:

* LICENSE: * netty/third_party/netty/LICENSE.txt (Apache License 2.0)
* HOMEPAGE: * <https://netty.io>
* LOCATION_IN_GRPC: * netty/third_party/netty gson-2.8.5.jar /*

* Copyright (C) 2008 Google 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.

gson-extras-0.2.1.jar

Copyright 2008 Google 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.

guava-26.0-jre.jar /

Copyright (C) 2010 The Guava Authors

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.

guice-3.0..jar

guice-servlet-3.0.jar

Copyright (C) 2006 Google 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.

httpclient-4.5.8.jar Apache HttpComponents Client

Copyright 1999-2019 The Apache Software Foundation

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

httpcore-4.4.11.jar Apache HttpComponents Client

Copyright 1999-2015 The Apache Software Foundation

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

Apache instrumentation-api-0.4.2.jar

Copyright 2016, Google 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.

jersey-json:1.9

DO NOT ALTER OR REMOVE COPYRIGHT NOTICES OR THIS HEADER.

Copyright (c) 2010-2011 Oracle and/or its affiliates. All rights reserved.

The contents of this file are subject to the terms of either the GNU General Public License Version 2 only ("GPL") or the Common Development

and Distribution License("CDDL") (collectively, the "License"). You may not use this file except in compliance with the License. You can obtain a copy of the License at http://glassfish.java.net/public/CDDL+GPL_1_1.html or `packager/legal/LICENSE.txt`. See the License for the specific language governing permissions and limitations under the License. When distributing the software, include this License Header Notice in each file and include the License file at `packager/legal/LICENSE.txt`.
GPL Classpath Exception:
Oracle designates this particular file as subject to the "Classpath" exception as provided by Oracle in the GPL Version 2 section of the License file that accompanied this code.

Modifications:

If applicable, add the following below the License Header, with the fields enclosed by brackets [] replaced by your own identifying information:
"Portions Copyright [year] [name of copyright owner]"

Contributor(s):

If you wish your version of this file to be governed by only the CDDL or only the GPL Version 2, indicate your decision by adding "[Contributor] elects to include this software in this distribution under the [CDDL or GPL Version 2] license." If you don't indicate a single choice of license, a recipient has the option to distribute your version of this file under either the CDDL, the GPL Version 2 or to extend the choice of license to its licensees as provided above. However, if you add GPL Version 2 code and therefore, elected the GPL Version 2 license, then the option applies only if the new code is made subject to such option by the copyright holder.

jline-2.14.5.jar

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.

jsoup-1.8.3.jar The MIT License © 2009-2015, Jonathan Hedley
<jonathan@hedley.net>
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.

log4j-1.2.17-16.jar Apache log4j

Copyright 2010 The Apache Software Foundation

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

log4j-api-2.11.2 Apache Log4j API

Copyright 1999-2019 The Apache Software Foundation

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

log4j-core-2.11.2 Apache Log4j Core

Copyright 1999-2012 Apache Software Foundation

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

ResolverUtil.java

Copyright 2005-2006 Tim Fennell

log4j-slf4j-impl-2.11.2 Apache Log4j SLF4J Binding

Copyright 1999-2019 The Apache Software Foundation

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

markdown4j-2.2-cj-1.0.jar New BSD (<https://code.google.com/archive/p/markdown4j/>)

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 holder 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.

maven-aether-provider-3.0.3.jar
maven-artifact-3.0.jar
maven-model-3.0.3.jar
maven-model-builder-3.0.3.jar
maven-plugin-api-3.0.jar
maven-repository-metadata-3.0.3.jar Apache Maven

Copyright 2001-2018 The Apache Software Foundation

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

netty-buffer-4.1.11.Final.jar
netty-codec-4.1.11.Final.jar
netty-codec-http-4.1.11.Final.jar
netty-codec-http2-4.1.11.Final.jar
netty-codec-socks-4.1.11.Final.jar
netty-common-4.1.11.Final.jar

netty-handler-4.1.11.Final.jar
netty-handler-proxy-4.1.11.Final.jar
netty-resolver-4.1.11.Final.jar
netty-transport-4.1.11.Final.jar

Copyright 2014 The Netty Project

The Netty Project licenses this file to you 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. Also, please refer to each LICENSE.<component>.txt file, which is located in the 'license' directory of the distribution file, for the license terms of the components that this product depends on.

This product contains the extensions to Java Collections Framework which has been derived from the works by JSR-166 EG, Doug Lea, and Jason T. Greene:

* LICENSE: * license/LICENSE.jsr166y.txt (Public Domain)
* HOMEPAGE: * <http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/>
* <http://viewvc.jboss.org/cgi-bin/viewvc.cgi/jboss/cache/experimental/jsr166/>

This product contains a modified version of Robert Harder's Public Domain Base64 Encoder and Decoder, which can be obtained at:

* LICENSE: * license/LICENSE.base64.txt (Public Domain)
* HOMEPAGE: * <http://iharder.sourceforge.net/current/java/base64/>

This product contains a modified portion of 'Webbit', an event based WebSocket and HTTP server, which can be obtained at:

* LICENSE: * license/LICENSE.webbit.txt (BSD License)
* HOMEPAGE: * <https://github.com/joewalnes/webbit>

This product contains a modified portion of 'SLF4J', a simple logging facade for Java, which can be obtained at:

* LICENSE: * license/LICENSE.slf4j.txt (MIT License)
* HOMEPAGE: * <http://www.slf4j.org/>

This product contains a modified portion of 'Apache Harmony', an open source Java SE, which can be obtained at:

* LICENSE: * license/LICENSE.harmony.txt (Apache License 2.0)
* HOMEPAGE: * <http://archive.apache.org/dist/harmony/>

This product contains a modified portion of 'jzip2', a Java bzip2 compression and decompression library written by Matthew J. Francis. It can be obtained at:

* LICENSE: * license/LICENSE.jzip2.txt (MIT License)
* HOMEPAGE: * <https://code.google.com/p/jzip2/>

This product contains a modified portion of 'libdivsufsort', a C API library to construct the suffix array and the Burrows-Wheeler transformed string for any input string of a constant-size alphabet written by Yuta Mori. It can be obtained at:

* LICENSE: * license/LICENSE.libdivsufsort.txt (MIT License)
* HOMEPAGE: * <https://github.com/y-256/libdivsufsort>

This product contains a modified portion of Nitsan Wakart's 'JCTools', Java Concurrency Tools for the JVM, which can be obtained at:

* LICENSE: * license/LICENSE.jctools.txt (ASL2 License)
* HOMEPAGE: * <https://github.com/JCTools/JCTools>

This product optionally depends on 'JZlib', a re-implementation of zlib in pure Java, which can be obtained at:

* LICENSE: * license/LICENSE.jzlib.txt (BSD style License)
* HOMEPAGE: * <http://www.jcraft.com/jzlib/>

This product optionally depends on 'Compress-LZF', a Java library for encoding and decoding data in LZF format, written by Tatu Saloranta. It can be obtained at:

* LICENSE: * license/LICENSE.compress-lzf.txt (Apache License 2.0)
* HOMEPAGE: * <https://github.com/ning/compress>

This product optionally depends on 'lz4', a LZ4 Java compression and decompression library written by Adrien Grand. It can be obtained at:

* LICENSE: * license/LICENSE.lz4.txt (Apache License 2.0)
* HOMEPAGE: * <https://github.com/jpountz/lz4-java>

This product optionally depends on 'lzma-java', a LZMA Java compression and decompression library, which can be obtained at:

* LICENSE: * license/LICENSE.lzma-java.txt (Apache License 2.0)
* HOMEPAGE: * <https://github.com/jponge/lzma-java>

This product contains a modified portion of 'jfastlz', a Java port of FastLZ compression and decompression library written by William Kinney. It can be obtained at:

* LICENSE: * license/LICENSE.jfastlz.txt (MIT License)
* HOMEPAGE: * <https://code.google.com/p/jfastlz/>

This product contains a modified portion of and optionally depends on 'Protocol Buffers', Google's data interchange format, which can be obtained at:

* LICENSE: * license/LICENSE.protobuf.txt (New BSD License)
* HOMEPAGE: * <https://github.com/google/protobuf>

This product optionally depends on 'Bouncy Castle Crypto APIs' to generate a temporary self-signed X.509 certificate when the JVM does not provide the equivalent functionality.

It can be obtained at:

* LICENSE: * license/LICENSE.bouncycastle.txt (MIT License)
* HOMEPAGE: * <http://www.bouncycastle.org/>

This product optionally depends on 'Snappy', a compression library produced by Google Inc, which can be obtained at:

* LICENSE: * license/LICENSE.snappy.txt (New BSD License)
* HOMEPAGE: * <https://github.com/google/snappy>

This product optionally depends on 'JBoss Marshalling', an alternative Java serialization API, which can be obtained at:

* LICENSE: * license/LICENSE.jboss-marshalling.txt (GNU LGPL 2.1)
* HOMEPAGE: * <http://www.jboss.org/jbossmarshalling>

This product optionally depends on 'Caliper', Google's micro- benchmarking framework, which can be obtained at:

* LICENSE: * license/LICENSE.caliper.txt (Apache License 2.0)
* HOMEPAGE: * <https://github.com/google/caliper>

This product optionally depends on 'Apache Commons Logging', a logging framework, which can be obtained at:

* LICENSE: * license/LICENSE.commons-logging.txt (Apache License 2.0)
* HOMEPAGE: * <http://commons.apache.org/logging/>

This product optionally depends on 'Apache Log4J', a logging framework, which can be obtained at:

* LICENSE: * license/LICENSE.log4j.txt (Apache License 2.0)
* HOMEPAGE: * <http://logging.apache.org/log4j/>

This product optionally depends on 'Aalto XML', an ultra-high performance non-blocking XML processor, which can be obtained at:

* LICENSE: * license/LICENSE.aalto-xml.txt (Apache License 2.0)
* HOMEPAGE: * <http://wiki.fasterxml.com/AaltoHome>

This product contains a modified version of 'HPACK', a Java implementation of the

HTTP/2 HPACK algorithm written by Twitter. It can be obtained at:

* LICENSE: * license/LICENSE.hpack.txt (Apache License 2.0)
* HOMEPAGE: * <https://github.com/twitter/hpack>

This product contains a modified portion of 'Apache Commons Lang', a Java library provides utilities for the java.lang API, which can be obtained at:

* LICENSE: * license/LICENSE.commons-lang.txt (Apache License 2.0)
* HOMEPAGE: * <https://commons.apache.org/proper/commons-lang/> plexus-

classworlds-2.4.jar /*
* Copyright 2001-2010 Codehaus Foundation. *
* 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.

plexus-component-annotations-1.5.5.jar
plexus-interpolation-1.14.jar

Copyright 2001-2008 Codehaus Foundation.
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.

Plexus-utils-3.1.0.jar
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 includes software developed by the Indiana University Extreme! Lab
(<http://www.extreme.indiana.edu/>).

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

This product includes software developed by ThoughtWorks (<http://www.thoughtworks.com>).

This product includes software developed by javolution (<http://javolution.org/>).

This product includes software developed by Rome (<https://rome.dev.java.net/>).

proto-google-common-protos-0.1.9.jar

Copyright 2018 Google LLC
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.

protobuf-java-3.3.1.jar
protobuf-java-util-3.3.1.jar
Protocol Buffers - Google's data interchange format

Copyright 2008 Google Inc. All rights reserved.

<https://developers.google.com/protocol-buffers/>

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.

py4j-0.9.2.jar

Copyright (c) 2009, 2011, Barthelemy Dagenais 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 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 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.

sisu-guice-3.0.2-no_aop.jar /**

* Copyright (C) 2006 Google 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.

sisu-inject-bean-2.2.2.jar
sisu-inject-plexus-2.2.2.jar

* Copyright (c) 2011 Sonatype, Inc.
All rights reserved.

This program and the accompanying materials are made available under the terms
of the Eclipse Public License v1.0 and Apache License v2.0 which accompanies
this
distribution.

The Eclipse Public License is available at
<http://www.eclipse.org/legal/epl-v10.html>
The Apache License v2.0 is available at
<http://www.apache.org/licenses/LICENSE-2.0.html>
You may elect to redistribute this code under either of these licenses.

slf4j-api-1.7.25.jar

Copyright 2001-2004 The Apache Software Foundation.
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.

+++++

Apache Thrift

Copyright 2006-2017 The Apache Software Foundation.

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

SOFTWARE DISTRIBUTED WITH THRIFT:

The Apache Thrift software includes a number of subcomponents with separate copyright notices and license terms. Your use of the source code for the these subcomponents is subject to the terms and conditions of the following licenses.

Portions of the following files are licensed under the MIT License:
lib/erl/src/Makefile.am

Please see doc/otp-base-license.txt for the full terms of this license.

For the aclocal/ax_boost_base.m4 and contrib/fb303/aclocal/ax_boost_base.m4 components:

Copyright (c) 2007 Thomas Porschberg <thomas@randspringer.de>
Copying and distribution of this file, with or without modification, are permitted in any medium without royalty provided the copyright notice and this notice are preserved.

For the compiler/cpp/src/thrift/md5.[ch] components:

Copyright (C) 1999, 2000, 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

For the lib/rb/setup.rb:
Copyright (c) 2000-2005 Minero Aoki, lib/ocaml/OCamlMakefile and
lib/ocaml/README-OCamlMakefile components:
Copyright (C) 1999 - 2007 Markus Mottl
Licensed under the terms of the GNU Lesser General Public License 2.1
(see doc/lgpl-2.1.txt for the full terms of this license)

wagon-http-lightweight-1.0.jar Maven Wagon Lightweight HTTP Provider

Copyright 2003-2011 The Apache Software Foundation

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

wagon-http-shared-1.0.jar Maven Wagon HTTP Shared Library

Copyright 2003-2011 The Apache Software Foundation

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

wagon-http-1.0.jar Maven Wagon HTTP Provider

Copyright 2003-2011 The Apache Software Foundation

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

wagon-provider-api-1.0.jar Maven Wagon API Copyright 2003-2011 The Apache
Software Foundation

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

+++++

B

PGX third party licenses and notices

Oracle Healthcare Translational Research leverages PGX technology. This appendix provides third-party licenses and notices for that product. This appendix includes:

- [Apache HC Fluent](#)
- [Argparse4j](#)
- [Commons Codec](#)
- [Commons IO](#)
- [Commons Lang](#)
- [Commons VFS](#)
- [DeepLearning4J](#)
- [fastutil](#)
- [Guava](#)
- [Guice](#)
- [HttpComponents HttpClient](#)
- [HttpCore](#)
- [jackson-annotations](#)
- [jackson-databind](#)
- [jackson-dataformat-yaml](#)
- [Jansson](#)
- [Java Low Level REST Client](#)
- [Jersey](#)
- [Jline](#)
- [junixsocket](#)
- [log4cxx](#)
- [log4j](#)
- [ND4J](#)
- [Oniguruma](#)
- [OpenSSL](#)
- [Protocol Buffers \(Google protobuf\)](#)
- [raft](#)
- [Simple Logging Facade for Java \(SLF4J\)](#)
- [Spoofox](#)
- [swagger-annotations](#)

- [Tipe Search](#)
- [Tomcat](#)

Apache HC Fluent

Vendor: Apache

Apache HttpComponent Fluent

Apache HttpComponents Client
Copyright 1999-2018 The Apache Software Foundation

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

```
=====
Licensed to the Apache Software Foundation (ASF) under one
or more contributor license agreements. See the NOTICE file
distributed with this work for additional information
regarding copyright ownership. The ASF licenses this file
to you 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 project includes Public Suffix List copied from

licensed under the terms of the Mozilla Public License, v. 2.0

Full license text:

```
*****
```

The Apache license appears in [Apache POI](#).

```
=====
```

This project includes Public Suffix List copied from

licensed under the terms of the Mozilla Public License, v. 2.0

Full license text:

Mozilla Public License Version 2.0

```
=====
```

1. Definitions

```
-----
```

1.1. "Contributor"

means each individual or legal entity that creates, contributes to
the creation of, or owns Covered Software.

- 1.2. "Contributor Version"
means the combination of the Contributions of others (if any) used by a Contributor and that particular Contributor's Contribution.
- 1.3. "Contribution"
means Covered Software of a particular Contributor.
- 1.4. "Covered Software"
means Source Code Form to which the initial Contributor has attached the notice in Exhibit A, the Executable Form of such Source Code Form, and Modifications of such Source Code Form, in each case including portions thereof.
- 1.5. "Incompatible With Secondary Licenses"
means
- (a) that the initial Contributor has attached the notice described in Exhibit B to the Covered Software; or
 - (b) that the Covered Software was made available under the terms of version 1.1 or earlier of the License, but not also under the terms of a Secondary License.
- 1.6. "Executable Form"
means any form of the work other than Source Code Form.
- 1.7. "Larger Work"
means a work that combines Covered Software with other material, in a separate file or files, that is not Covered Software.
- 1.8. "License"
means this document.
- 1.9. "Licensable"
means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently, any and all of the rights conveyed by this License.
- 1.10. "Modifications"
means any of the following:
- (a) any file in Source Code Form that results from an addition to, deletion from, or modification of the contents of Covered Software; or
 - (b) any new file in Source Code Form that contains any Covered Software.
- 1.11. "Patent Claims" of a Contributor
means any patent claim(s), including without limitation, method, process, and apparatus claims, in any patent Licensable by such Contributor that would be infringed, but for the grant of the License, by the making, using, selling, offering for sale, having made, import, or transfer of either its Contributions or its Contributor Version.
- 1.12. "Secondary License"
means either the GNU General Public License, Version 2.0, the GNU Lesser General Public License, Version 2.1, the GNU Affero General Public License, Version 3.0, or any later versions of those

licenses.

1.13. "Source Code Form"

means the form of the work preferred for making modifications.

1.14. "You" (or "Your")

means an individual or a legal entity exercising rights under this License. For legal entities, "You" includes any entity that 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 and Conditions

2.1. Grants

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 such Contributor to use, reproduce, make available, modify, display, perform, distribute, and otherwise exploit its Contributions, either on an unmodified basis, with Modifications, or as part of a Larger Work; and
- (b) under Patent Claims of such Contributor to make, use, sell, offer for sale, have made, import, and otherwise transfer either its Contributions or its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution become effective for each Contribution on the date the Contributor first distributes such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under this License. No additional rights or licenses will be implied from the distribution or licensing of Covered Software under this License. Notwithstanding Section 2.1(b) above, no patent license is granted by a Contributor:

- (a) for any code that a Contributor has removed from Covered Software; or
- (b) for infringements caused by: (i) Your and any other third party's modifications of Covered Software, or (ii) the combination of its Contributions with other software (except as part of its Contributor Version); or
- (c) under Patent Claims infringed by Covered Software in the absence of its Contributions.

This License does not grant any rights in the trademarks, service marks, or logos of any Contributor (except as may be necessary to comply with the notice requirements in Section 3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to distribute the Covered Software under a subsequent version of this License (see Section 10.2) or under the terms of a Secondary License (if permitted under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its Contributions are its original creation(s) or it has sufficient rights to grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under applicable copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in Section 2.1.

3. Responsibilities

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any Modifications that You create or to which You contribute, must be under the terms of this License. You must inform recipients that the Source Code Form of the Covered Software is governed by the terms of this License, and how they can obtain a copy of this License. You may not attempt to alter or restrict the recipients' rights in the Source Code Form.

3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

- (a) such Covered Software must also be made available in Source Code Form, as described in Section 3.1, and You must inform recipients of the Executable Form how they can obtain a copy of such Source Code Form by reasonable means in a timely manner, at a charge no more than the cost of distribution to the recipient; and
- (b) You may distribute such Executable Form under the terms of this License, or sublicense it under different terms, provided that the license for the Executable Form does not attempt to limit or alter the recipients' rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice, provided that You also comply with the requirements of this License for the Covered Software. If the Larger Work is a combination of Covered Software with a work governed by one or more Secondary Licenses, and the Covered Software is not Incompatible With Secondary Licenses, this License permits You to additionally distribute such Covered Software

under the terms of such Secondary License(s), so that the recipient of the Larger Work may, at their option, further distribute the Covered Software under the terms of either this License or such Secondary License(s).

3.4. Notices

You may not remove or alter the substance of any license notices (including copyright notices, patent notices, disclaimers of warranty, or limitations of liability) contained within the Source Code Form of the Covered Software, except that You may alter any license notices to the extent required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

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 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 every Contributor for any liability incurred by such Contributor as a result of warranty, support, indemnity or liability terms You offer. You may include additional disclaimers of warranty and limitations of liability specific to any jurisdiction.

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 Software 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 placed in a text file included with all distributions of the Covered Software under this License. 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. Termination

5.1. The rights granted under this License will terminate automatically if You fail to comply with any of its terms. However, if You become compliant, then the rights granted under this License from a particular Contributor are reinstated (a) provisionally, unless and until such Contributor explicitly and finally terminates Your grants, and (b) on an ongoing basis, if such Contributor fails to notify You of the non-compliance by some reasonable means prior to 60 days after You have come back into compliance. Moreover, Your grants from a particular Contributor are reinstated on an ongoing basis if such Contributor notifies You of the non-compliance by some reasonable means, this is the first time You have received notice of non-compliance with this License from such Contributor, and You become compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent infringement claim (excluding declaratory judgment actions, counter-claims, and cross-claims) alleging that a Contributor Version directly or indirectly infringes any patent, then the rights granted to You by any and all Contributors for the Covered Software under Section

2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end user license agreements (excluding distributors and resellers) which have been validly granted by You or Your distributors under this License prior to termination shall survive termination.

```
*****
*
* 6. Disclaimer of Warranty
* -----
*
* Covered Software is provided under this License on an "as is"
* basis, without warranty of any kind, either expressed, implied, or
* statutory, including, without limitation, warranties that the
* Covered Software is free of defects, merchantable, fit for a
* particular purpose or non-infringing. 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 any 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 under this License except under this disclaimer.
*
*****
```

```
*****
*
* 7. Limitation of Liability
* -----
*
* Under no circumstances and under no legal theory, whether tort
* (including negligence), contract, or otherwise, shall any
* Contributor, or anyone who distributes Covered Software as
* permitted above, be liable to You for any direct, 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. Litigation

Any litigation relating to this License may be brought only in the courts of a jurisdiction where the defendant maintains its principal place of business and such litigation shall be governed by laws of that jurisdiction, without reference to its conflict-of-law provisions. Nothing in this Section shall prevent a party's ability to bring cross-claims or counter-claims.

9. Miscellaneous

This License represents the complete agreement concerning the 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. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not be used to construe this License against a Contributor.

10. Versions of the License

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section 10.3, no one other than the license steward has the right to modify or publish new versions of this License. Each version will be given a distinguishing version number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version of the License under which You originally received the Covered Software, or under the terms of any subsequent version published by the license steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to create a new license for such software, you may create and use a modified version of this License if you rename the license and remove any references to the name of the license steward (except to note that such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary Licenses

If You choose to distribute Source Code Form that is Incompatible With Secondary Licenses under the terms of this version of the License, the notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice

This Source Code Form is subject to the terms of the Mozilla Public License, v. 2.0. If a copy of the MPL was not distributed with this file, You can obtain one at <http://mozilla.org/MPL/2.0/>.

If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice

This Source Code Form is "Incompatible With Secondary Licenses", as defined by the Mozilla Public License, v. 2.0.

Argparse4j

Vendor: Tatsuhiro Tsujikawa

```
* Copyright (C) 2011-2017 Tatsuhiro Tsujikawa
*
* 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.
```

Commons Codec

Vendor: Apache

The Apache license appears in [Apache POI](#).

```
COPYRIGHT NOTICE
=====
```

```
Apache Commons Codec
Copyright 2002-2017 The Apache Software Foundation
```

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

```
src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java
contains test data from http://aspell.net/test/orig/batch0.tab.
Copyright (C) 2002 Kevin Atkinson (kevin@gnu.org)
```

```
=====
```

```
The content of package org.apache.commons.codec.language.bm has been translated
from the original php source code available at http://stevemorse.org/phoneticinfo.htm
with permission from the original authors.
Original source copyright:
Copyright (c) 2008 Alexander Beider & Stephen P. Morse.
```

Commons IO

Vendor: The Apache Software Foundation

Apache Commons IO
Copyright 2002-2017 The Apache Software Foundation

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

The Apache license appears in [Apache POI](#).

Commons Lang

Vendor: The Apache Software Foundation

Apache Commons Lang
Copyright 2001-2016 The Apache Software Foundation

This product includes software developed at
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()`)

The Apache license appears in [Apache POI](#).

Commons VFS

Vendor: Apache

Apache Commons VFS Project
Copyright 2002-2019 The Apache Software Foundation

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

The Apache license appears in [Apache POI](#).

```
-----  
org.apache.commons:commons-compress  
commons-logging:commons-logging
```

Apache Commons Logging
Copyright 2003-2016 The Apache Software Foundation

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

DeepLearning4J

Vendor: SkyMind

DeepLearning4J 1.0.0-beta5

Copyright 2019, SkyMind

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.

The Apache license appears in [Apache POI](#).

=====
Name: commons-codec 1.12
Apache Commons Codec

Copyright 2002-2019 The Apache Software Foundation

This product includes software developed at The Apache Software Foundation (<https://www.apache.org/>). `src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java` contains test data from <http://aspell.net/test/orig/batch0.tab>.

Copyright (C) 2002 Kevin Atkinson (kevina@gnu.org)

=====
The content of package `org.apache.commons.codec.language.bm` has been translated from the original php source code available at <http://stevemorse.org/phoneticinfo.htm> with permission from the original authors. Original source copyright:

Copyright (c) 2008 Alexander Beider & Stephen P. Morse.

=====
commons-compress 1.19.
Apache Commons Compress

Copyright 2002-2019 The Apache Software Foundation

This product includes software developed at The Apache Software Foundation (<https://www.apache.org/>). The files in the package `org.apache.commons.compress.archivers.sevenz` were derived from the LZMA SDK, version 9.20 (C/ and CPP/7zip/), which has been placed in the public domain: "LZMA SDK is placed in the public domain." (<http://www.7-zip.org/sdk.html>)

=====
commons-io 2.6
Apache Commons IO

Copyright 2002-2019 The Apache Software Foundation

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

=====
commons-lang3 3.9
Apache Commons Lang

Copyright 2001-2018 The Apache Software Foundation

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

=====
commons-math3 3.6.1

Apache Commons Math

Copyright 2001-2016 The Apache Software Foundation

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

This product includes software developed for Orekit by CS Systèmes d'Information
(<http://www.c-s.fr/>)

Copyright 2010-2012

CS Systèmes d'Information 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 lmdcr, 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?doi=10.1.1.1.73.1898&rep=rep1&type=pdf>

=====

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

License 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/>)

Copyright © 2003-2009 SciPy Developers.
SciPy license Copyright © 2001, 2002 Enthought, Inc. All rights reserved.
Copyright © 2003-2013 SciPy Developers. 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

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.

=====

=====

commons-net 2.2

Apache Commons Net

Copyright 2001-2019 The Apache Software Foundation

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

=====

fastutil 8.2.3

Copyright (C) 2003-2017 Paolo Boldi and Sebastiano Vigna

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.

=====

neoitertools 1.0.0

License: Apache License Version 2.0

=====

objenesis 2.6

Copyright 2017 EasyMock

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.

=====

slf4j-api 1.7.26

Copyright (c) 2004-2017

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.

=====

byteunits 0.9.1

Copyright 2014 Jake Wharton

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.

=====

flatbuffers-java 1.10.0

Copyright 2014 Jake Wharton

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.

=====

javacpp 1.5.1

License: Apache License Version 2.0 or GPLv2 with Classpath exception

URL: <https://github.com/bytedeco/javacpp/blob/1.5.1/LICENSE.txt>

You may use this
work under the terms of either the Apache License, Version 2.0, or the
GNU General Public License
(GPL), either version 2, or any later version, with "Classpath"
exception (details below). You
don't have to do anything special to choose one license or
the other and you don't have to notify anyone which license you are using.

You are free to
use this work in any project (even commercial projects) as long as the
copyright header is left intact.

=====

projectlombok 1.18.2

Copyright (C) 2009-2015 The Project Lombok Authors.

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.

=====

Name: ND4J Libraries
nd4j-api-1.0.0-beta5.jar
nd4j-buffer-1.0.0-beta5.jar
nd4j-common-1.0.0-beta5.jar
nd4j-context-1.0.0-beta5.jar
nd4j-jackson-1.0.0-beta5.jar
nd4j-native-1.0.0-beta5-linux-x86_64.jar
nd4j-native-1.0.0-beta5.jar
nd4j-native-api-1.0.0-beta5.jar
nd4j-native-platform-1.0.0-beta5-linux-x86_64.jar

License: Apache License 2.0

Copyright 2019, SkyMind 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.</pre>

fastutil

Vendor: Sebastiano Vigna

fastutil 8.2.1

COPYRIGHT: Copyright (C) 2003-2017 Paolo Boldi and Sebastiano Vigna

The Apache license appears in [Apache POI](#).

Guava

Vendor: Google

Copyright (C) 2019 The Guava Authors

The Apache license appears in [Apache POI](#).

=====

+--- 4th party: com.google.guava:failureaccess:1.0.1

Copyright (C) 2018 The Guava Authors

=====

+--- 4th party: com.google.guava:listenablefuture:9999.0-empty-to-avoid-conflict-with-guava

Copyright (C) 2018 The Guava Authors

Guice

Vendor: Guice

Google Guice 4.2.2

COPYRIGHT: Copyright (C) 2006-Present Google Inc.

LICENSE: Apache 2.0 <https://github.com/google/guice/blob/4.2/COPYING>

Please see below for the Apache License 2.0 text.

Modules:

bom core extensions

Modules within extensions:

assistedinject

dagger-adapter

grapher

jmx

jndi

multibindings

persist

servlet

spring

struts2

testlib

throwingproviders

Mandatory Fourth-party Dependency:

AOP Alliance 1.0

Copyright: none
LICENSE: all the source code provided by AOP Alliance is Public Domain.

Mandatory Fourth-party Dependency:

Guava 25.1-android

Copyright: Copyright (C) 2007 The Guava Authors
License:
* 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.

Please see below for the Apache License 2.0 text.

Mandatory Fifth-party Dependency:

Findbugs JSR305 3.0.2

Copyright: Copyright (c) 2007-2009, JSR305 expert group All rights reserved.
License: The JSR-305 reference implementation (lib/jsr305.jar) is distributed
under
the terms of the New BSD license:
<http://www.opensource.org/licenses/bsd-license.php>

See the JSR-305 home page for more information:
<http://code.google.com/p/jsr-305/>

Please see below for the New BSD License text.

Mandatory Fifth-party Dependency: Error Prone Annotations 2.1.3

Copyright & License: /*
* Copyright 2014 The Error Prone Authors. *
* 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. */

Please see below for the Apache License 2.0 text.

Mandatory Fifth-party Dependency: J2ObjC Annotations 1.1

Copyright & License: /*

```
* Copyright 2011 Google Inc. All Rights Reserved. *
* 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. */
```

Please see below for the Apache License 2.0 text.

Mandatory (though can be excluded from classpath without ill effect)
Fifth-party Dependency: Checker Qual 2.0.0

```
-----
-----

Copyright & License: The Checker Framework Copyright 2004-present by the Checker
Framework developers Most of the Checker Framework is licensed under the GNU
General
Public License, version 2 (GPL2), with the classpath exception.
The text of this license appears below.
This is the same license used for OpenJDK. A few parts of the Checker Framework
have
more permissive licenses.
* The annotations are licensed under the MIT License. (The text of this license
appears
below.) More specifically, all the parts of the Checker Framework that you might
want to
include with your own program use the MIT License.
This is the checker-qual.jar file and all the files that appear in it: every
file in a
qual/ directory, plus utility files such as NullnessUtil.java, RegexUtil.java,
SignednessUtil.java, etc.
In addition, the cleanroom implementations of third-party annotations, which the
Checker
Framework recognizes as aliases for its own annotations, are licensed under the
MIT
License. Some external libraries that are included with the Checker Framework
have
different licenses.
* javaparser is dual licensed under the LGPL or the Apache license -- you may
use it
under whichever one you want.
(The javaparser source code contains a file with the text of the GPL, but it is
not clear
why, since javaparser does not use the GPL.) See file stubparser/LICENSE and the
source
code of all its files.
* JUnit is licensed under the Common Public License v1.0
(see http://www.junit.org/license), with parts (Hamcrest) licensed under the BSD
License
(see http://hamcrest.org/JavaHamcrest/).
* Libraries in plume-lib (https://github.com/plume-lib/) are licensed under the
MIT
License. The Checker Framework includes annotations for the JDK in directory
checker/jdk/,
and for some other libraries. Each annotated library uses the same license as
```

the
unannotated version of the library.

Mandatory Fifth-party dependency: Animal Sniffer Annotations 1.14

Copyright & License: /*

* The MIT License *

* Copyright (c) 2008 Kohsuke Kawaguchi and codehaus.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.

* 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.

Mandatory Fourth-Party Dependency: javax.inject 1

Copyright & License: /*

* Copyright (C) 2009 The JSR-330 Expert Group *

* 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.

See below for the Apache License 2.0 text.

Optional Fourth-party Dependency: CGLib 3.2.9

Copyright & License: /*

* Copyright 2002,2003,2004 The Apache Software Foundation *

* 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.

See below for the Apache License 2.0 text.
Optional Fifth-party Dependency: Apache Ant Core 1.10.3

Copyright & License: Apache Ant Copyright 1999-2018 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.

See below for the Apache License 2.0 text.
Optional Sixth-party Dependency: Apache Ant Launcher 1.10.3

Copyright & License: Apache Ant Copyright 1999-2018 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.

See below for the Apache License 2.0 text.
Optional Fourth-party Dependency: ASM 7.0

Copyright & License:
ASM: a very small and fast Java bytecode manipulation framework

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.

Apache License 2.0

The Apache license appears in [Apache POI](#).

=====
4P Dependencies: aopalliance 1.0

COPYRIGHT and LICENSE: All the source code provided by AOP Alliance is Public Domain.

com.google.guava

COPYRIGHT: Copyright (C) 2008 The Guava Authors

LICENSE:

The Apache license appears in [Apache POI](#).

New BSD License Text -----

Copyright <YEAR> <COPYRIGHT HOLDER>

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 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.

GPL version 2.0 Text

The GNU General Public License (GPL) Version 2, June 1991
Copyright (C) 1989, 1991 Free Software Foundation, Inc. 59 Temple Place, Suite 330, Boston, MA 02111-1307 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 Library 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.

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., 59 Temple Place, Suite 330, Boston, MA 02111-1307 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 Library General Public
License
instead of this License.

"CLASSPATH" EXCEPTION TO THE GPL Certain source files distributed by Oracle
America
and/or its affiliates are subject to the following clarification and special
exception
to the GPL, but only where Oracle has expressly included in the particular
source

file's header the words "Oracle designates this particular file as subject to the "Classpath" exception as provided by Oracle in the LICENSE file that accompanied this code." Linking this library statically or dynamically with other modules is making a combined work based on this library. Thus, the terms and conditions of the GNU General Public License cover the whole combination. As a special exception, the copyright holders of this library give you permission to link this library with independent modules to produce an executable, regardless of the license terms of these independent modules, and to copy and distribute the resulting executable under terms of your choice, provided that you also meet, for each linked independent module, the terms and conditions of the license of that module. An independent module is a module which is not derived from or based on this library. If you modify this library, you may extend this exception to your version of the library, but you are not obligated to do so. If you do not wish to do so, delete this exception statement from your version.

=====

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.

=====

HttpComponents HttpClient

Vendor: Apache

--- copyright notice ---
Apache HttpComponents Client

Copyright 1999-2019 The Apache Software Foundation

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

--- license term ---

The Apache license appears in [Apache POI](#).

=====

This project includes Public Suffix List copied from
licensed under the terms of the Mozilla Public License, v. 2.0

Full license text:

Mozilla Public License Version 2.0
=====

1. Definitions

1.1. "Contributor"

means each individual or legal entity that creates, contributes to
the creation of, or owns Covered Software.

1.2. "Contributor Version"

means the combination of the Contributions of others (if any) used
by a Contributor and that particular Contributor's Contribution.

1.3. "Contribution"

means Covered Software of a particular Contributor.

1.4. "Covered Software"

means Source Code Form to which the initial Contributor has attached
the notice in Exhibit A, the Executable Form of such Source Code
Form, and Modifications of such Source Code Form, in each case
including portions thereof.

1.5. "Incompatible With Secondary Licenses"

means

(a) that the initial Contributor has attached the notice described
in Exhibit B to the Covered Software; or

(b) that the Covered Software was made available under the terms of
version 1.1 or earlier of the License, but not also under the
terms of a Secondary License.

1.6. "Executable Form"

means any form of the work other than Source Code Form.

1.7. "Larger Work"

means a work that combines Covered Software with other material, in
a separate file or files, that is not Covered Software.

1.8. "License"

means this document.

1.9. "Licensable"

means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently, any and all of the rights conveyed by this License.

1.10. "Modifications"

means any of the following:

(a) any file in Source Code Form that results from an addition to, deletion from, or modification of the contents of Covered Software; or

(b) any new file in Source Code Form that contains any Covered Software.

1.11. "Patent Claims" of a Contributor

means any patent claim(s), including without limitation, method, process, and apparatus claims, in any patent Licensable by such Contributor that would be infringed, but for the grant of the License, by the making, using, selling, offering for sale, having made, import, or transfer of either its Contributions or its Contributor Version.

1.12. "Secondary License"

means either the GNU General Public License, Version 2.0, the GNU Lesser General Public License, Version 2.1, the GNU Affero General Public License, Version 3.0, or any later versions of those licenses.

1.13. "Source Code Form"

means the form of the work preferred for making modifications.

1.14. "You" (or "Your")

means an individual or a legal entity exercising rights under this License. For legal entities, "You" includes any entity that 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 and Conditions

2.1. Grants

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 such Contributor to use, reproduce, make available, modify, display, perform, distribute, and otherwise exploit its Contributions, either on an unmodified basis, with Modifications, or as part of a Larger Work; and

(b) under Patent Claims of such Contributor to make, use, sell, offer for sale, have made, import, and otherwise transfer either its Contributions or its Contributor Version.

2.2. Effective Date

The licenses granted in Section 2.1 with respect to any Contribution become effective for each Contribution on the date the Contributor first distributes such Contribution.

2.3. Limitations on Grant Scope

The licenses granted in this Section 2 are the only rights granted under this License. No additional rights or licenses will be implied from the distribution or licensing of Covered Software under this License. Notwithstanding Section 2.1(b) above, no patent license is granted by a Contributor:

(a) for any code that a Contributor has removed from Covered Software; or

(b) for infringements caused by: (i) Your and any other third party's modifications of Covered Software, or (ii) the combination of its Contributions with other software (except as part of its Contributor Version); or

(c) under Patent Claims infringed by Covered Software in the absence of its Contributions.

This License does not grant any rights in the trademarks, service marks, or logos of any Contributor (except as may be necessary to comply with the notice requirements in Section 3.4).

2.4. Subsequent Licenses

No Contributor makes additional grants as a result of Your choice to distribute the Covered Software under a subsequent version of this License (see Section 10.2) or under the terms of a Secondary License (if permitted under the terms of Section 3.3).

2.5. Representation

Each Contributor represents that the Contributor believes its Contributions are its original creation(s) or it has sufficient rights to grant the rights to its Contributions conveyed by this License.

2.6. Fair Use

This License is not intended to limit any rights You have under applicable copyright doctrines of fair use, fair dealing, or other equivalents.

2.7. Conditions

Sections 3.1, 3.2, 3.3, and 3.4 are conditions of the licenses granted in Section 2.1.

3. Responsibilities

3.1. Distribution of Source Form

All distribution of Covered Software in Source Code Form, including any Modifications that You create or to which You contribute, must be under the terms of this License. You must inform recipients that the Source Code Form of the Covered Software is governed by the terms of this License, and how they can obtain a copy of this License. You may not

attempt to alter or restrict the recipients' rights in the Source Code Form.

3.2. Distribution of Executable Form

If You distribute Covered Software in Executable Form then:

(a) such Covered Software must also be made available in Source Code Form, as described in Section 3.1, and You must inform recipients of the Executable Form how they can obtain a copy of such Source Code Form by reasonable means in a timely manner, at a charge no more than the cost of distribution to the recipient; and

(b) You may distribute such Executable Form under the terms of this License, or sublicense it under different terms, provided that the license for the Executable Form does not attempt to limit or alter the recipients' rights in the Source Code Form under this License.

3.3. Distribution of a Larger Work

You may create and distribute a Larger Work under terms of Your choice, provided that You also comply with the requirements of this License for the Covered Software. If the Larger Work is a combination of Covered Software with a work governed by one or more Secondary Licenses, and the Covered Software is not Incompatible With Secondary Licenses, this License permits You to additionally distribute such Covered Software under the terms of such Secondary License(s), so that the recipient of the Larger Work may, at their option, further distribute the Covered Software under the terms of either this License or such Secondary License(s).

3.4. Notices

You may not remove or alter the substance of any license notices (including copyright notices, patent notices, disclaimers of warranty, or limitations of liability) contained within the Source Code Form of the Covered Software, except that You may alter any license notices to the extent required to remedy known factual inaccuracies.

3.5. Application of Additional Terms

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 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 every Contributor for any liability incurred by such Contributor as a result of warranty, support, indemnity or liability terms You offer. You may include additional disclaimers of warranty and limitations of liability specific to any jurisdiction.

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 Software 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 placed in a text file included with all distributions of the Covered

Software under this License. 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. Termination

5.1. The rights granted under this License will terminate automatically if You fail to comply with any of its terms. However, if You become compliant, then the rights granted under this License from a particular Contributor are reinstated (a) provisionally, unless and until such Contributor explicitly and finally terminates Your grants, and (b) on an ongoing basis, if such Contributor fails to notify You of the non-compliance by some reasonable means prior to 60 days after You have come back into compliance. Moreover, Your grants from a particular Contributor are reinstated on an ongoing basis if such Contributor notifies You of the non-compliance by some reasonable means, this is the first time You have received notice of non-compliance with this License from such Contributor, and You become compliant prior to 30 days after Your receipt of the notice.

5.2. If You initiate litigation against any entity by asserting a patent infringement claim (excluding declaratory judgment actions, counter-claims, and cross-claims) alleging that a Contributor Version directly or indirectly infringes any patent, then the rights granted to You by any and all Contributors for the Covered Software under Section 2.1 of this License shall terminate.

5.3. In the event of termination under Sections 5.1 or 5.2 above, all end user license agreements (excluding distributors and resellers) which have been validly granted by You or Your distributors under this License prior to termination shall survive termination.

```
*****
*
* 6. Disclaimer of Warranty
* -----
*
* Covered Software is provided under this License on an "as is"
* basis, without warranty of any kind, either expressed, implied, or
* statutory, including, without limitation, warranties that the
* Covered Software is free of defects, merchantable, fit for a
* particular purpose or non-infringing. 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 any 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 under this License except under this disclaimer.
*
*****
```

```
*****
*
* 7. Limitation of Liability
* -----
*
* Under no circumstances and under no legal theory, whether tort
* (including negligence), contract, or otherwise, shall any
* Contributor, or anyone who distributes Covered Software as
* permitted above, be liable to You for any direct, 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. Litigation

Any litigation relating to this License may be brought only in the courts of a jurisdiction where the defendant maintains its principal place of business and such litigation shall be governed by laws of that jurisdiction, without reference to its conflict-of-law provisions. Nothing in this Section shall prevent a party's ability to bring cross-claims or counter-claims.

9. Miscellaneous

This License represents the complete agreement concerning the 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. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not be used to construe this License against a Contributor.

10. Versions of the License

10.1. New Versions

Mozilla Foundation is the license steward. Except as provided in Section 10.3, no one other than the license steward has the right to modify or publish new versions of this License. Each version will be given a distinguishing version number.

10.2. Effect of New Versions

You may distribute the Covered Software under the terms of the version of the License under which You originally received the Covered Software, or under the terms of any subsequent version published by the license steward.

10.3. Modified Versions

If you create software not governed by this License, and you want to create a new license for such software, you may create and use a modified version of this License if you rename the license and remove any references to the name of the license steward (except to note that such modified license differs from this License).

10.4. Distributing Source Code Form that is Incompatible With Secondary Licenses

If You choose to distribute Source Code Form that is Incompatible With Secondary Licenses under the terms of this version of the License, the notice described in Exhibit B of this License must be attached.

Exhibit A - Source Code Form License Notice

This Source Code Form is subject to the terms of the Mozilla Public License, v. 2.0. If a copy of the MPL was not distributed with this file, You can obtain one at <http://mozilla.org/MPL/2.0/>.

If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice.

You may add additional accurate notices of copyright ownership.

Exhibit B - "Incompatible With Secondary Licenses" Notice

This Source Code Form is "Incompatible With Secondary Licenses", as defined by the Mozilla Public License, v. 2.0.

--- copyright notice of 4-th dependency #1 - httpcore 4.4.11 ---
Apache HttpComponents Core
Copyright 2005-2019 The Apache Software Foundation

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

--- license term of 4-th dependency #1 - httpcore 4.4.11 ---
LICENSE: Apache 2.0 <https://github.com/apache/httpcomponents-core/blob/4.4.11/LICENSE.txt>

--- copyright notice of 4-th dependency #2 - 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/>).

--- license term of 4-th dependency #2 - commons-logging 1.2 ---
LICENSE: Apache 2.0 https://github.com/apache/commons-logging/blob/LOGGING_1_2/LICENSE.txt

--- copyright term 4-th dependency #3 - commons-codec 1.12 ---
Apache Commons Codec
Copyright 2002-2017 The Apache Software Foundation

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

src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java
contains test data from <http://aspell.net/test/orig/batch0.tab>.
Copyright (C) 2002 Kevin Atkinson (kevin@gnu.org)

=====

The content of package org.apache.commons.codec.language.bm has been translated

from the original php source code available at <http://stevemorse.org/phoneticinfo.htm>

with permission from the original authors.

Original source copyright:

Copyright (c) 2008 Alexander Beider & Stephen P. Morse.

--- copyright term 4-th dependency #3 - commons-codec 1.12 ---

LICENSE: Apache 2.0 <https://github.com/apache/commons-codec/blob/commons-codec-1.12/LICENSE.txt>

HttpCore

Vendor: Apache

Apache HttpComponents Core

Copyright 2005-2019 The Apache Software Foundation

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

=====

LICENSE: Apache 2.0

The Apache license appears in [Apache POI](#).

jackson-annotations

Vendor: FasterXML, LLC

Jackson Annotations

Copyright (c) 2019 Tatu Saloranta

LICENSE: Apache 2.0

The Apache license appears in [Apache POI](#).

jackson-databind

Vendor: FasterXML, LLC

Jackson Databind

Copyright (c) 2019 Tatu Saloranta

LICENSE: Apache 2.0

The Apache license appears in [Apache POI](#).

COPYRIGHT NOTICE

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.

-----jackson-core 2.10.2 -----

COPYRIGHT: Copyright (c) 2007- Tatu Saloranta, tatu.saloranta@iki.fi
 LICENSE: Apache 2.0

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.

-----jackson-annotations 2.10.2 -----
 COPYRIGHT: Copyright (c) 2007- Tatu Saloranta, tatu.saloranta@iki.fi
 LICENSE: Apache 2.0

jackson-dataformat-yaml

Vendor: FasterXML, LLC

jackson-dataformat-yaml 2.9.9
 copyright: [1]
 license: [3]

snakeyaml 1.23
 copyright: [2]
 license: [3]

====BEGIN REFERENCE[1]====

This copy of Jackson JSON processor YAML module 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>
 ====END REFERENCE[1]====

====BEGIN REFERENCE[2]====

```
/**
 * Copyright (c) 2008, http://www.snakeyaml.org
 *
 * 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.
 */
```

====END REFERENCE[2]====

====BEGIN REFERENCE[3]====

The Apache license appears in [Apache POI](#).

4TH Party Dependency : snakeyaml

license: Apache 2.0

The Apache license appears in [Apache POI](#).

====END REFERENCE[3]====

Jansson

Vendor: Petri Lehtinen

Copyright (c) 2009-2018 Petri Lehtinen

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.

Java Low Level REST Client

Vendor: Elasticsearch

--- copyright notice ---
Elasticsearch
Copyright 2009-2018 Elasticsearch

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

This product includes software developed by Joda.org (<http://www.joda.org/>).

--- license term ---

The Apache license appears in [Apache POI](#).

--- copyright notice of 4-th dependency #1 - HttpClient 4.5.8 ---
Apache HttpComponents Client
Copyright 1999-2017 The Apache Software Foundation

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

--- license term of 4-th dependency #1 - HttpClient 4.5.8 ---
LICENSE: Apache 2.0 <https://github.com/apache/httpcomponents-client/blob/4.5.4/LICENSE.txt>

--- copyright notice of 4-th dependency #2 - HttpCore 4.4.11 ---
Apache HttpComponents Core
Copyright 2005-2018 The Apache Software Foundation

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

--- license term of 4-th dependency #2 - HttpCore 4.4.11 ---
LICENSE: Apache 2.0 <https://github.com/apache/httpcomponents-core/blob/4.4.10/LICENSE.txt>

--- copyright notice of 4-th dependency #3 - commons codec 1.11 ---
Apache Commons Codec
Copyright 2002-2017 The Apache Software Foundation

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

src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java
contains test data from <http://aspell.net/test/orig/batch0.tab>.
Copyright (C) 2002 Kevin Atkinson (kevina@gnu.org)

=====

The content of package org.apache.commons.codec.language.bm has been translated
from the original php source code available at <http://stevemorse.org/phoneticinfo.htm>
with permission from the original authors.
Original source copyright:
Copyright (c) 2008 Alexander Beider & Stephen P. Morse.

--- license term of 4-th dependency #3 - commons codec 1.11 ---
LICENSE: Apache 2.0 <https://github.com/apache/commons-codec/blob/commons-codec-1.11/LICENSE.txt>

--- copyright notice of 4-th dependency #4 - commons-logging 1.1.3 ---
Apache Commons Logging
Copyright 2003-2013 The Apache Software Foundation

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

--- license term of 4-th dependency #4 - commons-logging 1.1.3 ---
LICENSE: Apache 2.0 https://github.com/apache/commons-logging/blob/LOGGING_1_1_3/LICENSE.txt

--- copyright notice of 4-th dependency #5 - httpasyncclient 4.1.4 ---
Apache HttpComponents AsyncClient
Copyright 2010-2017 The Apache Software Foundation

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

--- license term of 4-th dependency #5 - httpasyncclient 4.1.4 ---
LICENSE: Apache 2.0 <https://github.com/apache/httpasyncclient/blob/4.1.4/LICENSE.txt>

--- copyright notice of 4-th dependency #6 - httpcore-nio 4.4.11 ---
Apache HttpComponents Core
Copyright 2005-2018 The Apache Software Foundation

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

--- license term of 4-th dependency #6 - httpcore-nio 4.4.11 ---
<https://github.com/apache/httpcomponents-core/blob/4.4.10/LICENSE.txt>

Jersey

Vendor: Eclipse Foundation

jersey-client-2.29.1.jar
jersey-common-2.29.1.jar
jersey-container-servlet-core-2.29.1.jar
jersey-hk2-2.29.1.jar
jersey-media-jaxb-2.29.1.jar
jersey-server-2.29.1.jar

LICENSE:
EPL v2.0 or GPL v2+CPE
Eclipse Public License - v 2.0

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 content 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 changes or additions to the Program that are not Modified Works.

"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 or any Secondary License (as applicable), including Contributors.

"Derivative Works" shall mean any work, whether in Source Code or other form, that is based on (or derived from) the Program and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship.

"Modified Works" shall mean any work in Source Code or other form that results from an addition to, deletion from, or modification of the contents of the Program, including, for purposes of clarity any new file in Source Code form that contains any contents of the Program. Modified Works shall not include works that contain only declarations, interfaces, types, classes, structures, or files of the Program solely in each case in order to link to, bind by name, or subclass the Program or Modified

Works thereof.

"Distribute" means the acts of a) distributing or b) making available in any manner that enables the transfer of a copy.

"Source Code" means the form of a Program preferred for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Secondary License" means either the GNU General Public License, Version 2.0, or any later versions of that license, including any exceptions or additional permissions as identified by the initial Contributor.

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.

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 or other 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.

e) Notwithstanding the terms of any Secondary License, no Contributor makes

additional grants to any Recipient (other than those set forth in this Agreement) as a result of such Recipient's receipt of the Program under the terms of a Secondary License (if permitted under the terms of Section 3).

3. REQUIREMENTS 3.1 If a Contributor Distributes the Program in any form, then:

a) the Program must also be made available as Source Code, in accordance with section 3.2, and the Contributor must accompany the Program with a statement that the Source Code for the Program is available under this Agreement, and informs Recipients how to obtain it in a reasonable manner on or through a medium customarily used for software exchange; and

b) the Contributor may Distribute the Program under a license different than this Agreement, provided that such license:

i) effectively disclaims on behalf of all other 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 other Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;

iii) does not attempt to limit or alter the recipients' rights in the Source Code under section 3.2; and

iv) requires any subsequent distribution of the Program by any party to be under a license that satisfies the requirements of this section

3. 3.2 When the Program is Distributed as Source Code:

a) it must be made available under this Agreement, or if the Program

(i) is combined with other material in a separate file or files made available under a Secondary License, and

(ii) the initial Contributor attached to the Source Code the notice described in Exhibit A of this Agreement, then the Program may be made available under the terms of such Secondary Licenses, and

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

3.3 Contributors may not remove or alter any copyright, patent, trademark, attribution notices, disclaimers of warranty, or limitations of liability ("notices") contained

within the Program from any copy of the Program which they Distribute, provided that Contributors may add their own appropriate notices.

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, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, 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, AND TO THE EXTENT PERMITTED BY APPLICABLE LAW, 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. Nothing in this Agreement is intended to be enforceable by any entity that is not a Contributor or Recipient. No third-party beneficiary rights are created under this Agreement.

Exhibit A - Form of Secondary Licenses Notice "This Source Code may also be made available under the following Secondary Licenses when the conditions for such availability set forth in the Eclipse Public License, v. 2.0 are satisfied: {name license(s), version(s), and exceptions or additional permissions here}." Simply including a copy of this Agreement, including this Exhibit A is not sufficient to license the Source Code under Secondary Licenses. If it is not possible or desirable to put the notice in a particular file, then You may include the notice in a location (such as a LICENSE file in a relevant directory) where a recipient would be likely to look for such a notice. You may add additional accurate notices of copyright ownership.

The GNU General Public License (GPL) Version 2, June 1991
Copyright (C) 1989, 1991 Free Software Foundation, Inc. 51 Franklin Street,
Fifth Floor
Boston, MA 02110-1335 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
Library
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.

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 02110-1335 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 Library General Public License instead of this License.
```

CLASSPATH EXCEPTION

Linking this library statically or dynamically with other modules is making a combined work based on this library. Thus, the terms and conditions of the GNU General Public License version 2 cover the whole combination. As a special exception, the copyright holders of this library give you permission to link this library with independent modules to produce an executable, regardless of the license terms of these independent modules, and to copy and distribute the resulting executable under terms of your choice, provided that you also meet, for each linked independent module, the terms and

conditions
of the license of that module. An independent module is a module which is not
derived
from or based on this library. If you modify this library, you may extend this
exception
to your version of the library, but you are not obligated to do so. If you do
not wish
to do so, delete this exception statement from your version.

+++++

Dependencies javassist-3.22.0-CR2.jar License: Apache License, 2.0 Project:
<http://www.javassist.org/> Copyright (C) 1999- Shigeru Chiba. All Rights
Reserved.

aopalliance-repackaged-2.5.0-b42.jar
License: all the source code provided by AOP Alliance is Public Domain.
Project: <http://aopalliance.sourceforge.net>
Copyright: Material in the public domain is not protected by copyright
License: CDDL v1.1 + GPL v2.0 WITH Classpath exception

hk2-api-2.5.0-b42.jar
hk2-locator-2.5.0-b42.jar
hk2-utils-2.5.0-b42.jar
osgi-resource-locator-1.0.1.jar

Copyright (c) 2010-2017 Oracle and/or its affiliates. All rights reserved.

The contents of this file are subject to the terms of either the GNU General
Public
License Version 2 only ("GPL") or the Common Development and Distribution
License
("CDDL") (collectively, the "License"). You may not use this file except in
compliance
with the License. You can obtain a copy of the License at
https://glassfish.dev.java.net/public/CDDL+GPL_1_1.html or [packager/legal/
LICENSE.txt](packager/legal/LICENSE.txt).

See the License for the specific language governing permissions and limitations
under
the License. When distributing the software, include this License Header Notice
in each
file and include the License file at <packager/legal/LICENSE.txt>. GPL Classpath
Exception:
Oracle designates this particular file as subject to the "Classpath" exception
as provided
by Oracle in the GPL Version 2 section of the License file that accompanied this
code.
Modifications: If applicable, add the following below the License Header, with
the fields
enclosed by brackets [] replaced by your own identifying information: "Portions
Copyright
[year] [name of copyright owner]"
Contributor(s): If you wish your version of this file to be governed by only the
CDDL or
only the GPL Version 2, indicate your decision by adding "[Contributor] elects
to include

this software in this distribution under the [CDDL or GPL Version 2] license."
If you
don't indicate a single choice of license, a recipient has the option to
distribute your
version of this file under either the CDDL, the GPL Version 2 or to extend the
choice of
license to its licensees as provided above. However, if you add GPL Version 2
code and
therefore, elected the GPL Version 2 license, then the option applies only if
the new
code is made subject to such option by the copyright holder.
COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.1

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.

3.6. Larger Works. 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. Oracle 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, MERCHANTABILITY, 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 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. If You assert a patent infringement claim against Participant alleging that the Participant Software 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.

6.4. 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 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.

The GNU General Public License (GPL) Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc. 51 Franklin Street,
Fifth
Floor Boston, MA 02110-1335 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
Library
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.

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 02110-1335 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
Library
General Public License instead of this License. Certain source files distributed
by Oracle
America, Inc. and/or its affiliates are subject to the following clarification
and special
exception to the GPLv2, based on the GNU Project exception for its Classpath
libraries,
known as the GNU Classpath Exception, but only where Oracle has expressly
included in the
particular source file's header the words "Oracle designates this particular
file as
subject to the "Classpath" exception as provided by Oracle in the LICENSE file
that
accompanied this code." You should also note that Oracle includes multiple,
independent
programs in this software package. Some of those programs are provided under
licenses
deemed incompatible with the GPLv2 by the Free Software Foundation and others.
For example, the package includes programs licensed under the Apache License,
Version 2.0.
Such programs are licensed to you under their original licenses. Oracle
facilitates your
further distribution of this package by adding the Classpath Exception to the
necessary
parts of its GPLv2 code, which permits you to use that code in combination with
other
independent modules not licensed under the GPLv2. However, note that this would
not
permit you to commingle code under an incompatible license with Oracle's GPLv2
licensed
code by, for example, cutting and pasting such code into a file also containing
Oracle's
GPLv2 licensed code and then distributing the result. Additionally, if you were

to remove the Classpath Exception from any of the files to which it applies and distribute the result, you would likely be required to license some or all of the other code in that distribution under the GPLv2 as well, and since the GPLv2 is incompatible with the license terms of some items included in the distribution by Oracle, removing the Classpath Exception could therefore effectively compromise your ability to further distribute the package. Proceed with caution and we recommend that you obtain the advice of a lawyer skilled in open source matters before removing the Classpath Exception or making modifications to this package which may subsequently be redistributed and/or involve the use of third party software. CLASSPATH EXCEPTION Linking this library statically or dynamically with other modules is making a combined work based on this library. Thus, the terms and conditions of the GNU General Public License version 2 cover the whole combination. As a special exception, the copyright holders of this library give you permission to link this library with independent modules to produce an executable, regardless of the license terms of these independent modules, and to copy and distribute the resulting executable under terms of your choice, provided that you also meet, for each linked independent module, the terms and conditions of the license of that module. An independent module is a module which is not derived from or based on this library. If you modify this library, you may extend this exception to your version of the library, but you are not obligated to do so. If you do not wish to do so, delete this exception statement from your version.

jakarta.annotation-api-1.3.5.jar
jakarta.inject-2.6.1.jar
jakarta.validation-api-2.0.2.jar
jakarta.ws.rs-api-2.1.6.jar

Copyright (c) 2012, 2018 Oracle and/or its affiliates. All rights reserved.
This program and the accompanying materials are made available under the terms of the Eclipse Public License v. 2.0, which is available at <http://www.eclipse.org/legal/epl-2.0>.
This Source Code may also be made available under the following Secondary Licenses when the conditions for such availability set forth in the Eclipse Public License v. 2.0 are satisfied: GNU General Public License, version 2 with the GNU Classpath Exception, which is available at <https://www.gnu.org/software/classpath/license.html>.

Jline

Vendor: Marc Prud'hommeaux

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.

=====

jansi 1.12 Apache 2.0
hawtjni 2.4.1 Apache 2.0

The Apache license appears in [Apache POI](#).

javax.socket

Vendor: NewsClub, Christian Kohlschütter

javax.socket
Unix Domain Sockets for Java + RMI-over-AF_UNIX.

Copyright (c) 2009-2018 Dr. Christian Kohlschütter
See <https://github.com/kohlschutter/javax.socket> for more information.

-----separator-----

javax.socket

Copyright 2009-2019 Christian Kohlschütter

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.

-----separator-----

The Apache license appears in [Apache POI](#).

log4cxx

Vendor: Apache

Apache log4cxx
Copyright 2004-2007 The Apache Software Foundation

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

--

Apache Portable Runtime
Copyright (c) 2000-2019 The Apache Software Foundation.

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

Portions of this software were developed at the National Center
for Supercomputing Applications (NCSA) at the University of
Illinois at Urbana-Champaign.

This software contains code derived from the RSA Data Security
Inc. MD5 Message-Digest Algorithm.

This software contains code derived from UNIX V7, Copyright(C)
Caldera International Inc.

--

Apache Portable Runtime Utility Library
Copyright (c) 2000-2019 The Apache Software Foundation.

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

Portions of this software were developed at the National Center
for Supercomputing Applications (NCSA) at the University of
Illinois at Urbana-Champaign.

This software contains code derived from the RSA Data Security
Inc. MD5 Message-Digest Algorithm, including various
modifications by Spyglass Inc., Carnegie Mellon University, and
Bell Communications Research, Inc (Bellcore).

--

The Apache Portable Runtime includes a number of subcomponents with separate copyright notices and license terms. Your use of the source code for the these subcomponents is subject to the terms and conditions of the following licenses.

From strings/apr_fnmatch.c, include/apr_fnmatch.h, misc/unix/getopt.c, file_io/unix/mktemp.c, strings/apr_strings.c:

```
/*
 * Copyright (c) 1987, 1993, 1994
 *   The 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:
 * 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. 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.
 * 4. 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.
```

From network_io/unix/inet_ntop.c, network_io/unix/inet_pton.c:

```
/* Copyright (c) 1996 by Internet Software Consortium.
 *
 * 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 INTERNET SOFTWARE CONSORTIUM DISCLAIMS
 * ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES
 * OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL INTERNET SOFTWARE
 * CONSORTIUM 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.
```

From dso/aix/dso.c:

```
* Based on libdl (dlfcn.c/dlfcn.h) which is
* Copyright (c) 1992,1993,1995,1996,1997,1988
* Jens-Uwe Mager, Helios Software GmbH, Hannover, Germany.
*
* Not derived from licensed software.
*
* Permission is granted to freely use, copy, modify, and redistribute
* this software, provided that the author is not construed to be liable
* for any results of using the software, alterations are clearly marked
* as such, and this notice is not modified.
```

From strings/apr_strnatcmp.c, include/apr_strings.h:

```
strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
Copyright (C) 2000 by Martin Pool
```

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.

From strings/apr_snprintf.c:

```
*
* cvt - IEEE floating point formatting routines.
*     Derived from UNIX V7, Copyright(C) Caldera International Inc.
*
```

Copyright(C) Caldera International Inc. 2001-2002. 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 and documentation 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 or owned by Caldera
    International, Inc.
```

Neither the name of Caldera International, Inc. nor the names of other contributors may be used to endorse or promote products derived from this software without specific prior written permission.

USE OF THE SOFTWARE PROVIDED FOR UNDER THIS LICENSE BY CALDERA INTERNATIONAL, 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 CALDERA INTERNATIONAL, INC. 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 Apache Portable Runtime includes a number of subcomponents with separate copyright notices and license terms. Your use of the source code for the these subcomponents is subject to the terms and conditions of the following licenses.

For the include\apr_md5.h component:

```
/*
 * This is work is derived from material Copyright RSA Data Security, Inc.
 *
 * The RSA copyright statement and Licence for that original material is
 * included below. This is followed by the Apache copyright statement and
 * licence for the modifications made to that material.
 */
```

```
/* Copyright (C) 1991-2, RSA Data Security, Inc. Created 1991. 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.
```

```
*/
```

For the passwd\apr_md5.c component:

```
/*
 * This is work is derived from material Copyright RSA Data Security, Inc.
 *
 * The RSA copyright statement and Licence for that original material is
 * included below. This is followed by the Apache copyright statement and
 * licence for the modifications made to that material.
 */
```

```
/* MD5C.C - RSA Data Security, Inc., MD5 message-digest algorithm
*/

/* Copyright (C) 1991-2, RSA Data Security, Inc. Created 1991. 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 apr_md5_encode() routine uses much code obtained from the FreeBSD 3.0
* MD5 crypt() function, which is licenced as follows:
* -----
* "THE BEER-WARE LICENSE" (Revision 42):
* 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
* -----
*/

For the crypto\apr_md4.c component:

* This is derived from material copyright RSA Data Security, Inc.
* Their notice is reproduced below in its entirety.
*
* Copyright (C) 1991-2, RSA Data Security, Inc. Created 1991. 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.
```



```
*/
```

```
For the include\apr_md4.h component:
```

```
*
* This is derived from material copyright RSA Data Security, Inc.
* Their notice is reproduced below in its entirety.
*
* Copyright (C) 1991-2, RSA Data Security, Inc. Created 1991. 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.
*/
```

```
For the test\testmd4.c component:
```

```
*
* This is derived from material copyright RSA Data Security, Inc.
* Their notice is reproduced below in its entirety.
*
* Copyright (C) 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.
*/
```

```
For the xml\expat\conftools\install-sh component:
```

```
#
# install - install a program, script, or datafile
# This comes from X11R5 (mit/util/scripts/install.sh).
#
# Copyright 1991 by the Massachusetts Institute of Technology
#
# Permission to use, copy, modify, distribute, and sell this software and its
# documentation for any purpose is hereby granted without fee, 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. M.I.T. makes no representations about the  
# suitability of this software for any purpose. It is provided "as is"  
# without express or implied warranty.  
#
```

For the expat xml parser component:

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.

2. Include the following License ONLY ONCE in the documentation even if there
are multiple products licensed under the license.

3. Include the correct copyright notice at the end of the license:
"Copyright 2018 Apache Software Foundation"

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](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.

The Apache license appears in [Apache POI](#).

log4j

Vendor: The Apache Software Foundation

log4j 2.11.2
COPYRIGHT: Copyright 1999-2017 Apache Software Foundation
LICENSE: Apache 2.0

The Apache license appears in [Apache POI](#).

=====

Modules:
log4j-1.2-api
log4j-api-java9
log4j-api
log4j-appserver
log4j-bom
log4j-cassandra
log4j-core-its
log4j-core-java9
log4j-core
log4j-couchdb
log4j-distribution
log4j-flume-ng
log4j-iostreams
log4j-jcl
log4j-jdbc-dbc2
log4j-jmx-gui
log4j-jpa
log4j-jul
log4j-liquibase
log4j-mongodb2
log4j-mongodb3
log4j-osgi
log4j-perf
log4j-samples
log4j-slf4j-impl
log4j-slf4j18-impl
log4j-taglib
log4j-to-slf4j
log4j-web

=====

4P Dependencies

FROM NOTICE FILE:

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

ResolverUtil.java
Copyright 2005-2006 Tim Fennell
LICENSE: Apache 2.0 <http://www.apache.org/licenses/LICENSE-2.0>

Dumbster SMTP test server
Copyright 2004 Jason Paul Kitchen
LICENSE: Apache 2.0 <http://www.apache.org/licenses/LICENSE-2.0>

TypeUtil.java
Copyright 2002-2012 Ramnivas Laddad, Juergen Hoeller, Chris Beams
LICENSE: Apache 2.0 <http://www.apache.org/licenses/LICENSE-2.0>

picocli (<http://picocli.info>)
Copyright 2017 Remko Popma
LICENSE: Apache 2.0 <http://www.apache.org/licenses/LICENSE-2.0>

FROM POM FILES (Compile Dependencies Only)

com.lmax disruptor 3.4.2
Copyright 2011 - 2018 LMAX Ltd.
LICENSE: Apache 2.0 [https://github.com/LMAX-Exchange/disruptor/blob/3.4.2/
LICENSE.txt](https://github.com/LMAX-Exchange/disruptor/blob/3.4.2/LICENSE.txt)

org.springframework spring-aop 3.2.18.RELEASE
COPYRIGHT: Copyright 2002-2018 the original author or authors.
LICENSE: Apache 2.0 <http://www.apache.org/licenses/LICENSE-2.0>

slf4j-api 1.7.25
slf4j-ext 1.7.25
COPYRIGHT and LICENSE:
Copyright (c) 2004-2017 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.

ND4J

Vendor: SkyMind

Name: ND4J 1.0.0-beta5

Copyright 2019, SkyMind

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.

The Apache license appears in [Apache POI](#).

Copyright 2019, SkyMind 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.

=====

Name: commons-codec 1.12 Apache Commons Codec

Copyright 2002-2019 The Apache Software Foundation

This product includes software developed at The Apache Software Foundation (<https://www.apache.org/>). `src/test/org/apache/commons/codecs/language/DoubleMetaphoneTest.java` contains test data from <http://aspell.net/test/orig/batch0.tab>.

Copyright (C) 2002 Kevin Atkinson (kevina@gnu.org)

=====

The content of package `org.apache.commons.codec.language.bm` has been translated from the original php source code available at <http://stevemorse.org/phoneticinfo.htm> with permission from the original authors.

Original source copyright: Copyright (c) 2008 Alexander Beider & Stephen P. Morse.

=====

commons-compress 1.19. Apache Commons Compress

Copyright 2002-2019 The Apache Software Foundation

This product includes software developed at The Apache Software Foundation (<https://www.apache.org/>). The files in the package `org.apache.commons.compress.archivers.sevenz` were derived from the LZMA SDK, version 9.20 (C/ and CPP/7zip/), which has been placed in the public domain: "LZMA SDK is placed in the public domain." (<http://www.7-zip.org/sdk.html>)

=====

commons-io 2.6 Apache Commons IO

Copyright 2002-2019 The Apache Software Foundation

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

=====

commons-lang3 3.9 Apache Commons Lang

Copyright 2001-2018 The Apache Software Foundation

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

=====

commons-math3 3.6.1 Apache Commons Math

Copyright 2001-2016 The Apache Software Foundation

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

This product includes software developed for Orekit by CS Systèmes d'Information
(<http://www.c-s.fr/>)

Copyright 2010-2012 CS Systèmes d'Information 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 lmdcr, 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?doi=10.1.1.173.1898&rep=rep1&type=pdf>

=====

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

License 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/>)

Copyright © 2003-2009 SciPy Developers. SciPy license Copyright © 2001, 2002 Enthought, Inc. All rights reserved. Copyright © 2003-2013 SciPy Developers. 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 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.

=====
=====

commons-net 2.2 Apache Commons Net

Copyright 2001-2019 The Apache Software Foundation

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

=====

neoitertools 1.0.0 License: Apache License Version 2.0

=====

objenesis 2.6

Copyright 2017 EasyMock 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.

=====

slf4j-api 1.7.26

Copyright (c) 2004-2017 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.

=====

byteunits 0.9.1

Copyright 2014 Jake Wharton 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](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.

=====

flatbuffers-java 1.10.0

Copyright 2014 Google 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](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.

=====

javacpp 1.5.1

License: Apache License Version 2.0 or GPLv2 with Classpath exception

Copyright (C) 2019 Samuel Audet 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](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.

You may use this work under the terms of either the Apache License, Version 2.0, or the GNU General Public License (GPL), either version 2, or any later version, with "Classpath" exception (details below). You don't have to do anything special to choose one license or the other and you don't have to notify anyone which license you are using. You are free to use this work in any project (even commercial projects) as long as the copyright header is left intact.

=====

openblas 0.3.6

Copyright (c) 2011-2014, The OpenBLAS Project 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 OpenBLAS project nor the names of its contributors may be used to endorse or promote products derived from this software without specific 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.

=====

findbugs-annotations 1.3.9-1

Copyright 2011 Stephen Connolly.

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.

=====

projectlombok 1.18.2

Copyright (C) 2009-2015 The Project Lombok Authors. 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.

=====

javacpp-presets 1.5.1

(<https://github.com/bytedeco/javacpp-presets/tree/1.5.1>) You may use this work under the terms of either the Apache License, Version 2.0, or the GNU General Public License (GPL), either version 2, or any later version, with "Classpath" exception (details below). You don't have to do anything special to choose one license or the other and you don't have to notify anyone which license you are using. You are free to use this work

in any
project (even commercial projects) as long as the copyright header is left
intact.

=====

Oniguruma

Vendor: K. Kosako

Oniguruma LICENSE

Copyright (c) 2002-2019 K.Kosako
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.

```

/*****
gb18030.c - Oniguruma (regular expression library)
*****/
/*-
 * Copyright (c) 2005-2019 KUBO Takehiro
 *                               K.Kosako
 * 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.
*/

/*****
cp1251.c - Oniguruma (regular expression library)
*****/
/*-
 * Copyright (c) 2006-2019 Byte
 *                               K.Kosako
 * 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.
*/

```

OpenSSL

Vendor: openssl.org

1. Include the following in any advertising and in the about box or other location with copyright notices:

```

"This product includes software developed by the OpenSSL Project for use in the
OpenSSL Toolkit"
"This product includes cryptographic software written by Eric Young
(eay@cryptsoft.com)"

```

2. If you include any Windows specific code (or a derivative thereof) from the apps directory (application code) you must include this additional acknowledgement in any about box or other location with copyright notices:

```

"This product includes software written by Tim Hudson (tjh@cryptsoft.com)"

```

3. Include the following verbatim in the documentation:

```

The OpenSSL toolkit stays under a double license, i.e. both the conditions of
the OpenSSL License and the original SSLeay license apply to the toolkit.
See below for the actual license texts.

```


OpenSSL License

```
-----
/* =====
 * Copyright (c) 1998-2019 The OpenSSL Project. 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. All advertising materials mentioning features or use of this
 * software must display the following acknowledgment:
 * "This product includes software developed by the OpenSSL Project
 * for use in the OpenSSL Toolkit. (http://www.openssl.org/)"
 *
 * 4. The names "OpenSSL Toolkit" and "OpenSSL Project" must not be used to
 * endorse or promote products derived from this software without
 * prior written permission. For written permission, please contact
 * openssl-core@openssl.org.
 *
 * 5. Products derived from this software may not be called "OpenSSL"
 * nor may "OpenSSL" appear in their names without prior written
 * permission of the OpenSSL Project.
 *
 * 6. Redistributions of any form whatsoever must retain the following
 * acknowledgment:
 * "This product includes software developed by the OpenSSL Project
 * for use in the OpenSSL Toolkit (http://www.openssl.org/)"
 *
 * THIS SOFTWARE IS PROVIDED BY THE OpenSSL PROJECT ``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 OpenSSL PROJECT 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.
 * =====
 *
 * This product includes cryptographic software written by Eric Young
 * (eay@cryptsoft.com). This product includes software written by Tim
 * Hudson (tjh@cryptsoft.com).
 */
```

Original SSLeay License

```
-----
```

```

/* Copyright (C) 1995-1998 Eric Young (eay@cryptsoft.com)
 * All rights reserved.
 *
 * This package is an SSL implementation written
 * by Eric Young (eay@cryptsoft.com).
 * The implementation was written so as to conform with Netscapes SSL.
 *
 * This library is free for commercial and non-commercial use as long as
 * the following conditions are aheared to. The following conditions
 * apply to all code found in this distribution, be it the RC4, RSA,
 * lhash, DES, etc., code; not just the SSL code. The SSL documentation
 * included with this distribution is covered by the same copyright terms
 * except that the holder is Tim Hudson (tjh@cryptsoft.com).
 *
 * Copyright remains Eric Young's, and as such any Copyright notices in
 * the code are not to be removed.
 * If this package is used in a product, Eric Young should be given attribution
 * as the author of the parts of the library used.
 * This can be in the form of a textual message at program startup or
 * in documentation (online or textual) provided with the package.
 *
 * 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 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. All advertising materials mentioning features or use of this software
 * must display the following acknowledgement:
 * "This product includes cryptographic software written by
 * Eric Young (eay@cryptsoft.com)"
 * The word 'cryptographic' can be left out if the rouines from the library
 * being used are not cryptographic related :-).
 * 4. If you include any Windows specific code (or a derivative thereof) from
 * the apps directory (application code) you must include an acknowledgement:
 * "This product includes software written by Tim Hudson (tjh@cryptsoft.com)"
 *
 * THIS SOFTWARE IS PROVIDED BY ERIC YOUNG ``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.
 *
 * The licence and distribution terms for any publically available version or
 * derivative of this code cannot be changed. i.e. this code cannot simply be
 * copied and put under another distribution licence
 * [including the GNU Public Licence.]
 */

```

Protocol Buffers (Google protobuf)

Vendor: Google

Copyright 2008 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.

raft

Vendor: Willem-Hendrik Thiart

BSD 3 License URL: <https://github.com/willemthiart/raft/blob/v0.6.0/LICENSE>

Copyright (c) 2013, Willem-Hendrik Thiart
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 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 WILLEM-HENDRIK THIART 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.

Simple Logging Facade for Java (SLF4J)

Vendor: QOS.ch

Simple Logging Facade for Java (SLF4J) 1.7.26
https://github.com/qos-ch/slf4j/tree/v_1.7.26

Copyright (c) 2004-2017 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.

Spoofox

Vendor: Metaborg

The Apache license appears in [Apache POI](#).

Spoofox
Copyright 2016 Delft University of Technology

This project includes software developed at the Programming Languages Group at Delft University of Technology (<http://www.tudelft.nl>).

-----separator-----

Aopalliance 1.0: <http://aopalliance.sourceforge.net/>

Public Domain

-----separator-----

Capsule 0.6.2: <https://github.com/usethesource/capsule/blob/v0.6.2/LICENSE>

Copyright (c) Michael Steindorfer and Contributors.
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 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.

-----separator-----

Commons-configuration2 2.2: https://github.com/apache/commons-configuration/blob/CONFIGURATION_2_2/LICENSE.txt

Apache Commons Configuration
Copyright 2001-2017 The Apache Software Foundation

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

-----separator-----

Commons-configuration2-jackson 0.7.0: <https://github.com/Virtlink/commons-configuration2-jackson/blob/v0.7.0/LICENSE>

Jackson for Commons Configuration 2
Copyright 2015 - Daniel Pelsmaeker

-----separator-----

Commons-io 2.6: <https://github.com/apache/commons-io/blob/commons-io-2.6-RC3/LICENSE.txt>

Apache Commons IO
Copyright 2002-2017 The Apache Software Foundation

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

-----separator-----

Commons-lang3 3.8.1: https://github.com/apache/commons-lang/blob/LANG_3_8_1/LICENSE.txt

Apache Commons Lang
Copyright 2001-2018 The Apache Software Foundation

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

-----separator-----

Commons-logging 1.2: https://github.com/apache/commons-logging/blob/LOGGING_1_2/LICENSE.txt

Apache Commons Logging
Copyright 2003-2014 The Apache Software Foundation

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

-----separator-----

Commons-vfs2 2.2: <https://github.com/apache/commons-vfs/blob/commons-vfs2-project-2.2/LICENSE.txt>

Apache Commons VFS
Copyright 2002-2017 The Apache Software Foundation

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

-----separator-----

Guava 26.0-jre: <https://github.com/google/guava/blob/v26.0/COPYING>

Copyright (C) 2019 The Guava Authors

-----separator-----

Guice 4.2.2: <https://github.com/google/guice/blob/4.2.2/COPYING>

Copyright (C) 2019 Google Inc.

-----separator-----

Jackson-annotations 2.9.7: <https://github.com/FasterXML/jackson-annotations/blob/jackson-annotations-2.9.7/src/main/resources/META-INF/LICENSE>

Copyright FasterXML.com

-----separator-----

Jackson-core 2.9.7: <https://github.com/FasterXML/jackson-core/blob/master/src/main/resources/META-INF/LICENSE>

Copyright (c) 2007- Tatu Saloranta, tatu.saloranta@iki.fi

-----separator-----

Jackson-databind 2.9.9.3: <https://github.com/FasterXML/jackson-databind/blob/jackson-databind-2.9.9.3/src/main/resources/META-INF/LICENSE>

Copyright FasterXML.com

-----separator-----

Jackson-dataformat-yaml 2.9.7: <https://github.com/FasterXML/jackson-dataformats-text/tree/jackson-dataformats-text-2.9.7>

Copyright 2017 FasterXML

-----separator-----

Rxjava-core 0.20.7: <https://search.maven.org/artifact/com.netflix.rxjava/rxjava-core/0.20.7/jar>

Copyright 2014 Netflix, Inc.

-----separator-----

Snakeyaml 1.18: <https://bitbucket.org/asomov/snakeyaml/src/v1.18/LICENSE.txt>

Copyright (c) 2008, <http://www.snakeyaml.org>

swagger-annotations

Vendor: SmartBear Software

Copyright 2016 SmartBear Software

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 [[apache.org/licenses/LICENSE-2.0](http://www.apache.org/licenses/LICENSE-2.0)](<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.

The Apache license appears in [Apache POI](#).

Tipue Search

Vendor: Tipue

```
--- copy right notice ---  
Tipue Search Copyright (c) 2018 Tipue
```

```
--- license 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.
```

Tomcat

Vendor: Apache

```
Apache Tomcat  
Copyright 1999-2019 The Apache Software Foundation
```

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

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

```
This software contains code derived from jgroups-kubernetes  
developed by the JGroups project (http://www.jgroups.org/).  
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  
https://www.eclipse.org/jdt/core/.
```

```
org.apache.tomcat.util.json.JSONParser.jj is a public domain  
javacc grammar for JSON written by Robert Fischer.  
https://github.com/RobertFischer/json-parser
```


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

For portions of the Tomcat cloud support The org.apache.catalina.tribes.membership.cloud package contains derivative work originating from the jgroups project.

<https://github.com/jgroups-extras/jgroups-kubernetes>
Copyright 2002-2018 Red Hat Inc.

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
- javaee_8.xsd
- web-app_4_0.xsd
- web-common_4_0.xsd
- web-fragment_4_0.xsd

may be obtained from:

<http://www.oracle.com/webfolder/technetwork/jsc/xml/ns/javaee/index.html>

PGX does neither include/distribute Tomcat Windows Installer and any subcomponent under common development and distribution license (CDDL).

The Apache license appears in [Apache POI](#).

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. 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
- 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 recipients 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.

3.6. Larger Works.

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, MERCHANTABILITY, 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.

=====