

Advanced Weather Interactive Processing System (AWIPS)
Software Continuous Technology Refresh (SW CTR)

The following software products were developed by Raytheon:

CAVE (Common AWIPS Visualization Environment) software

EDEX (Enterprise Data Exchange) software

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Open Source Software Credits:

Software name	Version	License	Description	URL
ActiveMQ	5.9.1	Apache 2.0	Apache ActiveMQ™ is the most popular and powerful open source messaging and Integration Patterns server	http://activemq.apache.org/
Ant-Contrib	1.0b3	Apache 1.1	Additional useful tasks and types for Ant	http://sourceforge.net/projects/ant-contrib/files/
Antlr	2.7.7	ANTLR 3 License	Parser generator	http://www.antlr.org/
Apache Ant	1.7.1	Apache 2.0	Java-based build tool	http://ant.apache.org/
Apache batik	1.6	Apache 2.0		http://xmlgraphics.apache.org/batik/
Apache Bean Scripting Framework (BSF)	N/A	Apache 2.0	Bean Scripting Framework (BSF) is a set of Java classes which provides scripting language support within Java applications, and access to Java objects and methods from scripting languages.	http://commons.apache.org/proper/commons-bsf/
Apache Camel	2.13.2	Apache 2.0	Camel empowers you to define routing and mediation rules in a variety of domain-specific languages, including a Java-based Fluent API, Spring or Blueprint XML Configuration files, and a Scala DSL.	https://camel.apache.org/camel-2132-release.html
Apache Commons Beanutils	1.8.2	Apache 2.0	Java API wrappers	http://commons.apache.org/proper/commons-beanutils/index.html
Apache Commons Beanutils	1.8.3	Apache 2.0	Java API wrappers	http://commons.apache.org/beanutils/
Apache Commons Cli	1.2	Apache 2.0	Apache Common Libraries - provides an API for parsing command line options passed to programs	http://commons.apache.org/proper/commons-cli/
Apache Commons Cli	2.0 – Snapshot	Apache 2.0	Apache Common Libraries - provides an API for parsing command line options passed to programs	http://commons.apache.org/proper/commons-cli/
Apache Commons Codec	1.3.0	Apache 2.0	Apache Common Libraries - General encoding/decoding algorithms (for example phonetic, base64, URL).	http://commons.apache.org/proper/commons-codec

Apache Commons Codec	1.4	Apache 2.0	Apache Common Libraries - General encoding/decoding algorithms (for example phonetic, base64, URL).	http://commons.apache.org/proper/commons-codec
Apache Commons Collections	3.2	Apache 2.0	Apache Common Libraries	http://commons.apache.org/proper/commons-collections/
Apache Commons Compress	1.5	Apache 2.0	The Apache Commons Compress library defines an API for working with ar, cpio, Unix dump, tar, zip, gzip, XZ, Pack200, bzip2, 7z, arj and lzma files.	http://archive.apache.org/dist/commons/compress/source/
Apache Commons Configuration	1.6	Apache 2.0	The Commons Configuration software library provides a generic configuration interface which enables a Java application to read configuration data from a variety of sources.	http://commons.apache.org/proper/commons-configuration/index.html
Apache Commons Configuration	1.8	Apache 2.0	The Commons Configuration software library provides a generic configuration interface which enables a Java application to read configuration data from a variety of sources.	http://commons.apache.org/proper/commons-configuration/index.html
Apache Commons-digester	1.8.1	Apache 2.0	The Digester package lets you configure an XML -> Java object mapping module, which triggers certain actions called rules whenever a particular pattern of nested XML elements is recognized.	http://commons.apache.org/proper/commons-digester/
Apache Commons HttpClient	3.0.1	Apache 2.0	The HttpClient component supports the client-side of RFC 1945 (HTTP/1.0) and RFC 2616 (HTTP/1.1) several related specifications (RFC 2109 (Cookies) , RFC 2617 (HTTP Authentication)and provides a framework by which new request types (methods) or HTTP extensions can be created easily	http://hc.apache.org/httpclient-3.x/

Apache Commons HttpClient	3.1	Apache 2.0	The HttpClient component supports the client-side of RFC 1945 (HTTP/1.0) and RFC 2616 (HTTP/1.1) several related specifications (RFC 2109 (Cookies) , RFC 2617 (HTTP Authentication) and provides a framework by which new request types (methods) or HTTP extensions can be created easily	http://hc.apache.org/httpclient-3.x/
Apache Commons IO	1.3.1	Apache 2.0	Apache Common Libraries	http://commons.apache.org/proper/commons-io/
Apache Commons IO	2.4	Apache 2.0	Apache Common Libraries	http://commons.apache.org/proper/commons-io/
Apache Commons Lang	2.3	Apache 2.0	Apache Common Libraries	http://commons.apache.org/proper/commons-lang/
Apache Commons Lang	2.4	Apache 2.0	Apache Common Libraries	http://commons.apache.org/proper/commons-lang/
Apache Commons Logging	1.1	Apache 2.0	Apache Common Libraries	http://commons.apache.org/proper/commons-logging/
Apache Commons Management	1.0	Apache 2.0	Apache Common Libraries	N/A
Apache Commons Net	1.4.1	Apache 2.0	Apache Commons Net™ library implements the client side of many basic Internet protocols. The purpose of the library is to provide fundamental protocol access, not higher-level abstractions	http://commons.apache.org/proper/commons-net/index.html
Apache Commons Net	3.3	Apache 2.0	Apache Commons Net™ library implements the client side of many basic Internet protocols. The purpose of the library is to provide fundamental protocol access, not higher-level abstractions	http://commons.apache.org/proper/commons-net/index.html
Apache Commons-Pool	1.5.4	Apache 2.0	Apache Common Libraries	http://commons.apache.org/proper/commons-pool/
Apache Commons Validator	1.2.0	Apache 2.0	This package addresses issues to speed development and maintenance of validation rules	http://commons.apache.org/proper/commons-validator/index.html

Apache Commons VFS	2.0	Apache 2.0	Apache Common Libraries	http://commons.apache.org/proper/commons-vfs/index.html
Apache CXF	2.7.10	Apache 2.0	Apache CXF is an open source services framework. CXF helps you build and develop services using frontend programming APIs, like JAX-WS and JAX-RS	http://cxf.apache.org/
Apache CXF	2.7.11	Apache 2.0	Apache CXF is an open source services framework. CXF helps you build and develop services using frontend programming APIs, like JAX-WS and JAX-RS	http://cxf.apache.org/
Apache Derby	10.10.1.1	Apache 2.0	an Apache DB subproject, is an open source relational database implemented entirely in Java	http://db.apache.org/derby/releases/release-10.10.1.1.cgi
Apache HttpComponents Client	4.3.5	Apache 2.0	Designed for extension while providing robust support for the base HTTP protocol, the HttpClient component may be of interest to anyone building HTTP-aware client applications such as web browsers, web service clients, or systems that leverage or extend the HTTP protocol for distributed communication.	http://mvnrepository.com/artifact/commons-httpclient/commons-httpclient/3.1
Apache HttpComponents Httppmime	4.1.2	Apache 2.0	This module provides support for MIME multipart encoded entities	http://hc.apache.org/httpcomponents-client-ga/
Apache Jackrabbit Webdav	1.5.6	Apache 2.0	This is the WebDAV Library component of the Apache Jackrabbit project. This component provides interfaces and common utility classes used for building a WebDAV server or client	http://jackrabbit.apache.org/jackrabbit-webdav-library.html
Apache log4j	1.2.16	Apache 2.0	Logging Component used by Commons Logging	http://logging.apache.org/log4j/1.2/index.html
Apache log4j extras	1.0	Apache 2.0		http://logging.apache.org/log4j/companions/extras/index.html

Apache Mime4j	0.7	Apache 2.0	Mime4j provides a parser, MimeStreamParser, for e-mail message streams in plain rfc822 and MIME format	http://james.apache.org/mime4j/index.html
Apache qpid	0.18	Apache 2.0	qpid python messaging API	http://qpid.apache.org/releases/qpid-0.18/
Apache qpid	0.28	Apache 2.0	qpid python messaging API	http://qpid.apache.org/releases//
Apache qpid	0.30	Apache 2.0	qpid python messaging API	http://qpid.apache.org/releases//
Apache Tika	1.0	Apache 2.0	The Apache Tika toolkit detects and extracts metadata and structured text content from various documents using existing parser libraries	http://tika.apache.org/
Apache Xalan-Java	2.7.2	Apache 2.0	Xalan-Java is an XSLT processor for transforming XML documents into HTML, text, or other XML document types. It implements XSL Transformations (XSLT) Version 1.0 and XML Path Language (XPath) Version 1.0 and can be used from the command line, in an applet or a servlet, or as a module in other program.	https://xalan.apache.org/xalan-j/index.html
Apache XMLBeans	2.6.0	Apache 2.0	XMLBeans is a tool that allows you to access XML in a Java friendly way; also found in apache cxf	http://xmlbeans.apache.org/
Apache XML Resolver	1.2	Apache 2.0	N/A	http://xerces.apache.org/xml-commons/components/resolver/
ASM	1.5.3	Eugene Kuleshov Copyright 2004	ASM is an all purpose Java bytecode manipulation and analysis framework. It can be used to modify existing classes or dynamically generate classes, directly in binary form	http://asm.ow2.org/
ASM	2.1	INRIA, France Telecom (c) 2000-2005	ASM is an all purpose Java bytecode manipulation and analysis framework. It can be used to modify existing classes or dynamically generate classes, directly in binary form	http://mvnrepository.com/artifact/org.ow2.asm/asm-commons/4.1

ASM	3.1.0	INRIA, France Telecom (c) 2000-2005	ASM is an all purpose Java bytecode manipulation and analysis framework. It can be used to modify existing classes or dynamically generate classes, directly in binary form	http://asm.ow2.org/
Bcprov-jdk15	1.46	The Legion of the Bouncy Castle (c) 2000-2012	The Bouncy Castle Crypto package is a Java implementation of cryptographic algorithms	http://www.bouncycastle.org/latest_releases.html
Berkeley DB Java Edition	4.0.92	Oracle (c) 1990-2009	Oracle Berkeley DB Java Edition is an open source, embeddable, transactional storage engine written entirely in Java	http://www.oracle.com/technetwork/products/berkeleydb/overview/index.html
Boilerpipe	1.1.0	Apache 2.0	The boilerpipe library provides algorithms to detect and remove the surplus clutter (boilerplate, templates) around the main textual content of a web page	http://code.google.com/p/boilerpipe/
Cglib	2.1.3	Apache 2.0	cglib is a powerful, high performance and quality Code Generation Library, It is used to extend JAVA classes and implements interfaces at runtime	http://cglib.sourceforge.net/
CherryPy	3.1.2	BSD	CherryPy is a pythonic, object-oriented HTTP framework.	http://www.cherrypy.org/
concurrentlinkedhashmap	1.4	Apache 2.0	A high performance version of java.util.LinkedHashMap for use as a software cache.	https://code.google.com/p/concurrentlinkedhashmap/
Crawler4j	N/A	Apache 2.0	Crawler4j is an open source Java crawler which provides a simple interface for crawling the Web.	http://code.google.com/p/crawler4j/
csv2odf	1.09	GPL 3.0	csv2odf can create business intelligence reports from csv data sources with output to ods, odt, html, xlsx, or docx documents	http://sourceforge.net/projects/csv2odf/
csw schema	2.0.2	Open Geospatial Consortium Inc. License Agreement	In order to create metadata for both static datasets and dynamic, online services and for use with CSW, the OGC created an xml schema	http://schemas.opengis.net/csw/2.0.2/

dom4j	1.6.1	MetaStuff Ltd. (c) 2001-2005	dom4j is an easy to use, open source library for working with XML, XPath and XSLT on the Java platform using the Java Collections Framework and with full support for DOM, SAX and JAXP	http://www.dom4j.org/
Eclipse	N/A	Eclipse Public License 1.0		
Eclipse Jface	3.8.0.v20120912-135020	Eclipse Public License 1.0	jface libraries (for running jface dialogs in the tests project)	http://www.eclipse.org/
ehcache	1.3.0	Apache 2.0	Ehcache is an open source, standards-based cache used to boost performance, offload the database and simplify scalability.	http://www.ehcache.org/
ESAPI (OWASP)	2.0.1	The OWASP Foundation (c) 2007	ESAPI (The OWASP Enterprise Security API) is a free, open source, web application security control library that makes it easier for programmers to write lower-risk applications. The ESAPI libraries are designed to make it easier for programmers to retrofit security into existing applications	https://www.owasp.org/index.php/Project_Information:_OWASP_Enterprise_Security_API_Project
gdal	1.9.2	Gdal License (MIT style)	GDAL is a translator library for raster geospatial data formats	http://www.gdal.org/
gdal	1.9.2-4	Frank Warmerdam (c) 2000 (MIT Based License)	GDAL is a translator library for raster geospatial data formats	got the gdal jar through http://yum.postgresql.org/9.3/redhat/rhel-6-x86_64/gdal-java-1.9.2-4.el6.x86_64.rpm ; http://www.gdal.org/ ; http://trac.osgeo.org/gdal/wiki/GdalOgrInJava
GEOS	3.4.2	LGPL 2.1	Geometry Engine - Open Source is a C++ port of the Java Topology Suite (JTS)	http://trac.osgeo.org/geos/
GeoTools	10.5	LGPL 2.1		http://www.geotools.org/
GeoTools Java API	2.6.4	LGPL 2.1		http://geotools.org/about.html
Geronimo Activation	1.1 spec 1.1	Apache 2.0	Geronimo Activation implements Content Handlers for use in conjunction with the Java Activation Framework	http://geronimo.apache.org/maven/server/modules/geronimo-activation/

Geronimo Activation	N/A	Apache 2.0	Geronimo Activation implements Content Handlers for use in conjunction with the Java Activation Framework	http://geronimo.apache.org/maven/server/modules/geronimo-activation/
Geronimo Annotation	1.0 spec 1.1.1	Apache 2.0	N/A	
Geronimo-jms	1.1 spec 1.1.1	Apache 2.0	The goal of the Geronimo project is to produce a server runtime framework that pulls together the best Open Source alternatives to create runtimes that meet the needs of developers and system administrators.	http://geronimo.apache.org/apache-geronimo-v11-release.html
Geronimo JTA; javax transaction	1.0.1B spec 1.0.1	Apache 2.0	N/A	
Glazed Lists	1.8.0	LGPL 2.1; Mozilla Public License v1.0	just as I was getting ready to gouge out my eyes in sheer frustration, glazedlists comes along and makes them worth having again	http://www.glazedlists.com/
Gluegen	N/A	Sun Microsystems, Inc (c) 2003-2005	GlueGen is a tool which automatically generates the Java and JNI code necessary to call C libraries	http://jogamp.org/gluegen/www/
Gnu-getopt	1.0.6	LGPL 3.0	This is a Java port of GNU getopt, a class for parsing command line arguments passed to programs	http://www.urbanophile.com/arenn/hacking/download.html
Gnu-regexp	1.1.4	LGPL 2.1	GNU implementation of regular expressions	http://savannah.gnu.org/projects/gnu-regexp
GRIB Java Decoder	8.0	LGPL 2.1	The GRIB Java decoder works on a as needed approach to only convert the data that is requested therefore avoiding the large output file sizes.	http://www.unidata.ucar.edu/downloads/decoders/index.jsp
Groovy	1.8.6	Apache 2.0	is an agile and dynamic language for the Java Virtual Machine	http://groovy.codehaus.org/
Groovy	2.1.3	Apache 2.0	is an agile and dynamic language for the Java Virtual Machine	http://groovy.codehaus.org/

guava	11.0.2	Apache 2.0	The Guava project contains several of Google's core libraries that we rely on in our Java-based projects: collections, caching, primitives support, concurrency libraries, common annotations, string processing, I/O, and so forth.	http://code.google.com/p/guava-libraries/wiki/Release11
h2	1.3.171	Eclipse Public License 1.0	H2 is an SQL database engine written in Java that implements the JDBC API.	http://h2database.com/html/main.html
h5py	1.3.0	Andrew Collette (c) 2008	HDF5 for Python	http://code.google.com/p/h5py/
Hamcrest	1.3	Hamcrest.org (c) 2000-2006	Provides a library of matcher objects (also known as constraints or predicates) allowing 'match' rules to be defined declaratively, to be used in other frameworks	http://code.google.com/p/hamcrest/
hdf5	1.8.4-patch1	HDF5 Software Library and Utilities	Core HDF5 APIs	http://www.hdfgroup.org/hdf-java/html/ ftp://ftp.hdfgroup.org/HDF5/hdf-java/bin
Hibernate	4.2.15	LGPL 2.1	Data Access Layer	https://github.com/hibernate/hibernate-jpa-api
Httpd	2.2.15	Apache 2.0	The Apache HTTP Server Project is an effort to develop and maintain an open-source HTTP server for modern operating systems including UNIX and Windows NT. The goal of this project is to provide a secure, efficient and extensible server that provides HTTP services in sync with the current HTTP standards	http://httpd.apache.org/
Httpd	2.2.3	Apache 2.0	The Apache HTTP Server Project is an effort to develop and maintain an open-source HTTP server for modern operating systems including UNIX and Windows NT. The goal of this project is to provide a secure, efficient and extensible server that provides HTTP services in sync with the current HTTP standards	http://httpd.apache.org/
Imageio-ext	1.1.8	LGPL 3.0		

Inno	5.5.4	Inno Setup License (c) Jordan Russell 1997-2013 & Martijn Laan (c) 2000-2013	Inno Setup is a free installer for Windows programs	https://github.com/jrsoftware/issrc/releases
Jackson-core-asl	1.7.3	Apache 2.0	Jackson is a high-performance JSON processor.	http://jackson.codehaus.org/Home
Jackson-mapper-asl	1.7.3	Apache 2.0	Jackson is a high-performance JSON processor.	http://jackson.codehaus.org/Home
Jackson-xc	1.7.3	LGPL 2.1	Jackson is a high-performance JSON processor.	http://jackson.codehaus.org/Home
Jakarta Oro	2.0.8	Apache 1.1	The Jakarta-ORO Java classes are a set of text-processing Java classes that provide Perl5 compatible regular expressions, AWK-like regular expressions, glob expressions, and utility classes for performing substitutions, splits, filtering filenames, etc.	http://jakarta.apache.org/oro/
Jasper	1.900.1	Jasper License v2.0	The JasPer Project provides a free software-based reference implementation of the codec specified in the JPEG-2000 Part-1 standard (i.e., ISO/IEC 15444-1).	http://tomcat.apache.org/tomcat-4.1-doc/jasper-howto.html
Java API for Kml (OpenGIS)	2.2.0	Micromata GmbH (c) 2009	The objective of the Java API for KML is to provide Java interfaces for easy access to KML (Keyhole Markup Language) data	http://code.google.com/p/javaapiforkml/
JavaBeans Activation Framework	1.1.1	Sun Microsystems Inc Software License	With the JavaBeans Activation Framework standard extension, developers who use Java technology can take advantage of standard services to determine the type of an arbitrary piece of data, encapsulate access to it, discover the operations available on it, and to instantiate the appropriate bean to perform said operation(s).	http://www.oracle.com/technetwork/java/javasebusiness/downloads/java-archive-downloads-java-plat-419418.html#jaf-1.1-fr-oth-JPR

Java JDK	7u65	Oracle Binary Code License Agreement for the Java SE Platform Products and JavaFX - 2 April 2013	JDK: (Java Development Kit). For Java Developers. Includes a complete JRE plus tools for developing, debugging, and monitoring Java applications.	http://www.oracle.com/technetwork/java/javase/downloads/index.html
JavaMail	1.4.1	Sun Microsystems Inc Entitlement for JavaMail 1.4	The JavaMail 1.4.1 release contains several bug fixes, performance improvements, and minor enhancements. It also contains EXPERIMENTAL support for the IMAP IDLE command, which has been requested for many years.	
JavaMail	1.4.3	Sun Microsystems, Inc. License Agreement for JavaMail 1.4.3	Classes modeling a mail system.	http://www.oracle.com/technetwork/java/index-138643.html
Javax Servlet	2.5.0.v200910301333	CDDL 1.0		http://ebr.springsource.com/repository/app/bundle/version/detail?name=javax.servlet&version=3.0.0.v201103241009
Javax Servlet	3.0_spec-1.0	CDDL 1.0		http://ebr.springsource.com/repository/app/bundle/version/detail?name=javax.servlet&version=3.0.0.v201103241009
Javax Servlet Source	2.5.0.v200910301333	CDDL 1.0		http://ebr.springsource.com/repository/app/bundle/version/detail?name=javax.servlet&version=3.0.0.v201103241009
jaxb2-basics-runtime	0.6.0	Aleksei Valikov (c) 2006-2009	JAXB2 Basics is a part of JAXB2 Commons project which implements plugins and tools for JAXB 2.x reference implementation	http://mvnrepository.com/artifact/org.jvnet.jaxb2_commons/jaxb2-basics-runtime/0.6.4
Jaxb (Javax xml bind)	2.1.9	CDDL 1.0	The Java TM Architecture for XML Binding (JAXB) provides an API and tools that automate the mapping between XML documents and Java objects.	

Jaxen	1.1.4	Werken Company (c) 2003-2006	The jaxen project is a Java XPath Engine. jaxen is a universal object model walker, capable of evaluating XPath expressions across multiple models. Currently supported are dom4j, JDOM, and DOM.	
Jaxen	1.1-beta-7	Werken Company (c) 2003-2006	The jaxen project is a Java XPath Engine. jaxen is a universal object model walker, capable of evaluating XPath expressions across multiple models. Currently supported are dom4j, JDOM, and DOM.	
jbzip2	0.9.1	Matthew J Francis (c) 2010 (MIT License)	jbzip2 is a Java bzip2 compression/decompression library. It can be used as a replacement for the Apache bzip2	http://code.google.com/p/jbzip2/
JDBC4 PostgreSQL	9.3-1102	PostgreSQL Global Development Group Copyright (BSD license)		http://download.openpkg.org/components/cache/jsqsh/ ; http://jdbc.postgresql.org/download.html
Jdom	1.0	Jason Hunter & Brett McLaughlin (c) 2000-2004	A Java representation of an XML document. Provides a method of representing a XML document for easy and efficient reading, manipulation, and writing. It has a straightforward API and serves as an alternative to DOM and SAX.	http://www.jdom.org/dist/binary/archive/
Jep	2.3 (rtn modified)	zlib-libpng license	Java to Python interface (Java Embedded Python)	http://jep.sourceforge.net/
Jetty	7.6.14.v20131031.jar	Apache 2.0; Eclipse Public License 1.0	Jetty provides a Web server and javax.servlet container, plus support for SPDY, WebSocket, OSGi, JMX, JNDI, JAAS and many other integrations.	download.eclipse.org/jetty/
Jetty	7.6.9.v20130131.	Apache 2.0; Eclipse Public License 1.0	Jetty provides an HTTP server, HTTP client, and javax.servlet container	http://dist.codehaus.org/jetty/jetty-6.1.21/ http://xircles.codehaus.org/projects/jetty http://www.eclipse.org/jetty/

Jetty	8.1.15.v2 0140411	Apache 2.0; Eclipse Public License 1.0	Jetty provides a Web server and javax.servlet container, plus support for SPDY, WebSocket, OSGi, JMX, JNDI, JAAS and many other integrations.	http://download.eclipse.org/jetty/stable-8/dist/
Jgoodies Forms	1.2.0	JGoodies Karsten Lentzsch (c) 2002-2009	The JGoodies Forms framework helps you lay out and implement elegant Swing panels quickly and consistently	http://www.jgoodies.com/freeware/libraries/forms/
jna	3.4.1	LGPL 2.1	JNA provides Java programs easy access to native shared libraries (DLLs on Windows) without writing anything but Java code—no JNI or native code is required. This functionality is comparable to Windows' Platform/Invoke and Python's ctypes. Access is dynamic at runtime without code generation.	http://www.jarvana.com/jarvana/browse/com/sun/jna/jna/3.0.9/?d=y&by=numJsp&order=des
jna	4.1.0	Apache 2.0	JNA provides Java programs easy access to native shared libraries (DLLs on Windows) without writing anything but Java code—no JNI or native code is required. This functionality is comparable to Windows' Platform/Invoke and Python's ctypes. Access is dynamic at runtime without code generation.	https://github.com/twall/jna
Joda-Time	1.6	Apache 2.0	Joda-Time provides a quality replacement for the Java date and time classes	http://sourceforge.net/projects/joda-time/
Joda-Time	1.6.2	Apache 2.0	Joda-Time provides a quality replacement for the Java date and time classes	http://sourceforge.net/projects/joda-time/
jogl	1.1.1	JOGL License (BSD 2-clause)	Provides hardware-supported 3D graphics	http://jogamp.org/jogl/www/

Jrex	1.1.1	LGPL 2.1	jrex is a regular expression API for textual pattern matching based on the finite state automaton theory. It's matching algorithm is extremely fast and works with huge patterns and input texts. jrex also offers set operations (union, intersection, difference, complement) for combination of automatons.	http://sourceforge.net/projects/jrex/
JSR 275 Javax Measure	1.0-beta-2	JScience (c) 2007		http://docs.codehaus.org/display/GEOTOOLS/Switch+from+JSR-108+to+JSR-275+for+Units
JSR 311	1.1.1	CDDL 1.0	This JSR will develop an API for providing support for RESTful(Representational State Transfer) Web Services in the Java Platform	http://www.jarvana.com/jarvana/archive-details/javax/ws/rs/jsr311-api/1.1.1/jsr311-api-1.1.1.jar
lapack	3.4.2	LAPACK License	LAPACK is written in Fortran 90 and provides routines for solving systems of simultaneous linear equations, least-squares solutions of linear systems of equations, eigenvalue problems, and singular value problems.	http://www.netlib.org/lapack/
Idm	6.11.5 (rtn modified)	University Corporation for Atmospheric Research/Unidata (c) 1993-2013	Raytheon modified queue size	http://www.unidata.ucar.edu/software/Idm/
Idm	6.12.6 (rtn modified)	University Corporation for Atmospheric Research/Unidata (c) 1993-2013	Raytheon modified queue size	ftp://ftp.unidata.ucar.edu/pub/Idm/
Idm	6.12.9 (rtn modified)	University Corporation for Atmospheric Research/Unidata (c) 1993-2013	Raytheon modified queue size	ftp://ftp.unidata.ucar.edu/pub/Idm/
Logback	1.0.13	LGPL 2.1; Eclipse Public License 1.0	Logback is intended as a successor to the popular log4j project, picking up where log4j leaves off	http://logback.qos.ch/download.html

LZF	Revision 3 (rtn modified)	Andrew Collette (c) 2008	The LZF filter provides high-speed compression with acceptable compression	
matplotlib	0.99.1.1-r7813	Matplotlib 1.0.1 License	matplotlib is a python 2D plotting library which produces publication quality figures in a variety of hardcopy formats and interactive environments across platforms	http://matplotlib.org/
matplotlib	1.2.0	License Agreement for Matplotlib (based on PSF license)	matplotlib is a python 2D plotting library which produces publication quality figures in a variety of hardcopy formats and interactive environments across platforms	http://matplotlib.org/
McIDAS	N/A	LGPL 3.0	McIDAS-V is free, open source software for 3D geophysical data analysis and visualization	http://www.ssec.wisc.edu/mcidas/software/v/download.html
Metadata Extractor	2.4.0-beta-1	public domain	What began as a simple utility to extract the date-taken from a digital still camera (DSC) Jpeg file is now a general metadata extraction framework. Support currently exists for Exif and Iptc metadata segments	http://drewnoakes.com/code/exif/
Mockito	1.9.0	Mockito Contributors (c) 2007	Mockito is a mocking framework that tastes really good	http://code.google.com/p/mockito/
mod wsgi	3.3	Apache 2.0	The mod_wsgi adapter is an Apache module that provides a WSGI compliant interface for hosting Python based web applications within Apache	http://rpm.pbone.net/index.php3/stat/4/idpl/16004234/dir/scientific_linux_6/com/mod_wsgi-3.2-1.el6.x
mod wsgi	3.5	Apache 2.0	The mod_wsgi adapter is an Apache module that provides a WSGI compliant interface for hosting Python based web applications within Apache	http://rpm.pbone.net/index.php3/stat/4/idpl/16004234/dir/scientific_linux_6/com/mod_wsgi-3.2-1.el6.x
NetCDF Java	4.3.20 (rtn modified)	LGPL 2.1	This contains the BUFR splitter classes from netcdf-java version 4.3.20.	

NetCDF Java Library	1.3	LGPL 2.1	NetCDF (network Common Data Form) is a set of software libraries and machine-independent data formats that support the creation, access, and sharing of array-oriented scientific data.	https://wiki.ucar.edu/plugins/recently-updated/changes.action?theme=sidebar&pageSize=10&startHandle=com.atlassian.confluence.pages.Attachment-54001762&authors=weingrub&spaceKeys=*&contentType=-mail,page,comment,blogpost,attachment,userInfo,spacedesc,personalspacedesc,status
NetCDF Java Library	4.2	LGPL 2.1	NetCDF (network Common Data Form) is a set of software libraries and machine-independent data formats that support the creation, access, and sharing of array-oriented scientific data.	http://www.unidata.ucar.edu/downloads/netcdf/netcdf-java-2_2/index.jsp
NetCDF Java Library	4.2 (rtn modified)	Apache 2.0	BUFR tables for the NetCDF library	http://search.maven.org/#search ga 1 bufr
Netty	3.6.6	Apache 2.0	The Netty project is an effort to provide an asynchronous · event-driven network application framework for rapid development of maintainable high-performance · high-scalability protocol servers and clients, including its related out-of-the-box protocol extensions and tool suite.	http://code.google.com/p/opentsdb/downloads/detail?name=netty-3.5.1.Final.jar&can=4&q=
Nose	0.11.1	LGPL 2.1	nose extends the test loading and running features of unittest, making it easier to write, find and run tests	http://code.google.com/p/python-nose/
NumPy	1.5.0	John D. Hunter (c) 2002-2008	Numerical Python - Fundamental package needed for scientific computing with Python	http://www.numpy.org/
NumPy	1.5.0b1	John D. Hunter (c) 2002-2008	Numerical Python - Fundamental package needed for scientific computing with Python	http://www.numpy.org/
OGC Tools	1.0.2	Aleksei Valikov (c) 2006-2011		http://mvnrepository.com/artifact/org.jvnet.ogc/ogc-tools-gml-jts
OpenFire	3.9.1	Apache 2.0	Collaboration Server	http://www.igniterealtime.org/projects/openfire/index.jsp

OpenSAML	2.6.1	Apache 2.0	OpenSAML is a set of open source C++ & Java libraries meant to support developers working with the Security Assertion Markup Language (SAML)	https://wiki.shibboleth.net/confluence/display/OpenSAML/Home
OpenWS	1.5.1	Apache 2.0	The OpenWS library provides a growing set of tools to work with web services at a low level	Came with opensaml-2.6.1; https://wiki.shibboleth.net/confluence/display/OpenSAML/Home/
PgAdmin 3	1.18.1	Pgadmin 3 (c) 2002-2009	pgAdmin III is the most popular and feature rich Open Source administration and development platform for PostgreSQL	http://www.pgadmin.org/
PMD	3.6	InfoEther, Inc. Copyright 2002 – 2005	PMD is a source code analyzer. It finds common programming flaws like unused variables, empty catch blocks, unnecessary object creation, and so forth. It supports Java, JavaScript, XML, XSL.	http://pmd.sourceforge.net/
PostGIS	2.0.6	GPL 2.0	PostGIS adds support for geographic objects to the PostgreSQL object-relational database. In effect, PostGIS spatially enables the PostgreSQL server, allowing it to be used as a backend spatial database for geographic information systems (GIS)	http://postgis.refrations.net/
PostgreSQL	9.3.5	PostgreSQL Global Development Group (c) 1996-2013 and The Regents of the University of California (c) 1994-1995	PostgreSQL is a powerful, open source object-relational database system	http://www.postgresql.org/download/
PROJ.4	4.8.0	Frank Warmerdam (c) 2000 (MIT Based License)	Cartographic Projections library	http://trac.osgeo.org/proj/
pupynere	1.0.15	MIT License	Pupynere is a Python module for reading and writing NetCDF files, using the same API as Scientific.IO.NetCDF and pynetcdf	http://pypi.python.org/pypi/pupynere/

pycairo	1.2.2	GPL 3.0	Pycairo is a set of Python bindings for the cairo graphics library.	http://cairographics.org/pycairo/
PyDev	3.4.1	Eclipse Public License 1.0	Python Development Environment (Python IDE plugin for Eclipse). Features editor, code completion, refactoring, outline view, debugger, and other goodie	http://pydev.org/
pygtk	2.8.6	LGPL 3.0	PyGTK lets you to easily create programs with a graphical user interface using the Python programming language	http://www.pygtk.org/
PyTables	2.1.2	Francesc Alted (c) 2002-2004 & 2008-2010, Carabos Coop. V. (c) 2005-2007	PyTables is a package for managing hierarchical datasets and designed to efficiently and easily cope with extremely large amounts of data	http://www.pytables.org/moin/PyTables http://www.pytables.org/download/stable/
Python	2.7.8	Python Software Foundation License Version 2	Python is a dynamic object-oriented programming language	http://www.python.org/download/releases/
Python Megawidgets	1.3.2	Telstra Corporation Limited, Australia (c) 1997-1999, Really Good Software Pty Ltd, Australia (c) 2000-2002	Pmw is a toolkit for building high-level compound widgets in Python using the Tkinter module	http://pmw.sourceforge.net/
Python-Setuptools	0.6c11	Python Software Foundation License Version 2	Download, build, install, upgrade, and uninstall Python packages -- easily!	http://pypi.python.org/pypi/setuptools
Quartz	1.8.0	Apache 2.0	Quartz is a full-featured, open source job scheduling system that can be integrated with, or used along side virtually any J2EE or J2SE application - from the smallest stand-alone application to the largest e-commerce system	http://quartz-scheduler.org/

Quartz	1.8.6	Apache 2.0	Quartz is a full-featured, open source job scheduling system that can be integrated with, or used along side virtually any J2EE or J2SE application - from the smallest stand-alone application to the largest e-commerce system	http://quartz-scheduler.org/
Reflections	0.9.9-RC1	Sam Hocevar (c) 2004 (WTFPL)	Reflections scans your classpath, indexes the metadata, allows you to query it on runtime and may save and collect that information for many modules within your project.	http://code.google.com/p/reflections/downloads/list
ScientificPython	2.8	CeCILL-C Free Software License Agreement	Python library for common tasks in scientific computing	http://dirac.cnrs-orleans.fr/plone/software/scientificpython
SciPy	0.8.0	John D. Hunter (c) 2002-2008	Open-source software for mathematics, science, and engineering	http://www.scipy.org , http://sourceforge.net/project/showfiles.php?group_id=27747
Serializer (Xalan Java Serializer)	2.7.1	Apache 2.0	Serializer to write out XML, HTML etc. as a stream of characters from an input DOM or from input SAX	http://mvnrepository.com/artifact/xalan/serializer/2.7.1
shapely	1.4.4	Sean C Gillies (c) 2007 (BSD 3-clause)	Shapely is a BSD-licensed Python package for manipulation and analysis of planar geometric objects	http://pypi.python.org/pypi/Shapely
slf4j	1.5.0	SLF4J License (c) 2004-2013	The Simple Logging Facade for Java or (SLF4J) serves as a simple facade or abstraction for various logging frameworks	http://www.slf4j.org/download.html
slf4j	1.7.5	qos.ch (c) 2004-2014	The Simple Logging Facade for Java or (SLF4J) serves as a simple facade or abstraction for various logging frameworks	http://www.slf4j.org/download.html
Smack	3.3.1	Apache 2.0	Smack is an Open Source XMPP (Jabber) client library for instant messaging and presence	http://www.igniterealtime.org/projects/smack/ ; http://repository.opencastproject.org/nexus/content/repositories/public/org/igniterealtime/smack/smack/3.3.1/
Smackx	3.3.1	Apache 2.0	Smack is an Open Source XMPP (Jabber) client library for instant messaging and presence	http://www.igniterealtime.org/projects/smack/ ; http://repository.opencastproject.org/nexus/content/repositories/public/org/igniterealtime/smack/smackx/3.3.1/

SNMP4J	N/A	Apache 2.0	SNMP4J is an enterprise class free open source and state-of-the-art SNMP implementation for Java™ 2SE 1.4 or later	http://www.snmp4j.org/
Spring Framework	2.5.6	Apache 2.0	Platform to build and run enterprise Java applications	http://www.springsource.org/
Spring Framework	3.2.8	Apache 2.0	Platform to build and run enterprise Java applications	http://www.springsource.org/
Stax2 API	3.1.1	BSD	StAX2 is an experimental API that is intended to extend basic StAX specifications in a way that allows implementations to experiment with features before they end up in the actual StAX specification (if they do).	http://docs.codehaus.org/display/WSTX/StAX2
Stax-api (Apache Geronimo)	1.0 spec-1.0.1	Apache 2.0	StAX is a standard XML processing API that allows you to stream XML data from and to your application. This StAX implementation is the standard pull parser implementation for JSR-173 specification.	http://mirrors.ibiblio.org/maven2/org/apache/geronimo/specs/geronimo-stax-api_1.0_spec/1.0.1/
SWT Add-ons	0.1.1	Eclipse Public License 1.0	Add-ons for Eclipse SWT widgets	http://sourceforge.net/projects/swtaddons/ http://sourceforge.net/projects/swtaddons/files/
SZIP	2.1	NASA Open Source Agreement 1.3	Szip compression software, providing lossless compression of scientific data, is provided with HDF software products as of HDF5 Release 1.6.0 and HDF4 Release 2.0. Szip is an implementation of the extended-Rice lossless compression algorithm	http://www.hdfgroup.org/doc_resource/SZIP/
Tagsoup	1.2.1	Apache 2.0	TagSoup, a SAX-compliant parser written in Java that, instead of parsing well-formed or valid XML, parses HTML as it is found in the wild	http://ccil.org/
Thrift	0.9.0	Apache 2.0	Thrift is a lightweight, language-independent software stack with an	

Toy Parser Generator	3.1.2	LGPL 2.1	Toy Parser Generator is a lexical and syntactic parser generator for Python	http://www.cdsoft.fr/tpg/index.html
Vecmath	1.3.1	GPL 2.0 with Classpath Exception	Vecmath provides a powerful way to handle and manipulate coordinates and vectors, being compatible with how the Source engine handles them. It provides useful tuple/matrix operations. It has been a standard/stable API and implementation for many years. It is completely independent of the 3d graphics card implementations.	https://java.net/projects/vecmath ; http://ftp.us.xemacs.org/pub/mirrors/maven2/java3d/vecmath/1.3.1/
Velocity	1.7	Apache 2.0	Templating Engine	http://velocity.apache.org/
werkzeug	0.6.2	Werkzeug Team (c) 2010	Werkzeug is a WSGI utility library for Python	http://werkzeug.pocoo.org/
wss4j	1.6.14	Apache 2.0	The Apache WSS4J™ project provides a Java implementation of the primary security standards for Web Services, namely the OASIS Web Services Security (WS-Security) specifications from the OASIS Web Services Security TC.	http://archive.apache.org/dist/ws/wss4j/
XercesImpl	2.6.2	Apache 2.0	Xerces2 is the next generation of high performance, fully compliant XML parsers in the Apache Xerces family.	http://mirrors.ibiblio.org/maven2/xerces/xercesimpl/2.6.2/
XercesImpl	2.7.0	Apache 2.0	Xerces2 is the next generation of high performance, fully compliant XML parsers in the Apache Xerces family.	http://mirrors.ibiblio.org/maven2/xerces/xercesimpl/2.6.2/
XercesImpl	2.9.1	Apache 2.0	Xerces2 is the next generation of high performance, fully compliant XML parsers in the Apache Xerces family.	http://mirrors.ibiblio.org/maven2/xerces/xercesimpl/2.9.1/
XercesImpl	N/A	Apache 2.0	Xerces2 is the next generation of high performance, fully compliant XML parsers in the Apache Xerces family.	

xmlParserAPIs	2.6.2	Apache 2.0	Apache xmlParserAPIs ships two kinds of code - external and Apache - in an effort to organize and provide common packaging for the several externally-defined XML standards code: the DOM, SAX, and JAXP interfaces, and Apache xml modules.	http://xerces.apache.org/xml-commons/
XML Schema	1.0.2	World Wide Web Consortium (c) 1994-2002	XML Schema was approved as a W3C Recommendation on 2 May 2001 and a second edition incorporating many errata was published on 28 October 2004;	http://www.w3.org/XML/Schema
XML Schema	1.0.3	World Wide Web Consortium (c) 1994-2002	XML Schema was approved as a W3C Recommendation on 2 May 2001 and a second edition incorporating many errata was published on 28 October 2004;	http://www.w3.org/XML/Schema
XML Schema	1.0.3.1	World Wide Web Consortium (c) 1994-2002	XML Schema was approved as a W3C Recommendation on 2 May 2001 and a second edition incorporating many errata was published on 28 October 2004;	http://www.w3.org/XML/Schema
Xmltooling	1.4.1	Apache 2.0	XMLTooling-J is a low-level library that may be used to construct libraries that allow developers to work with XML in a Java beans manner.	Came with opensaml-2.6.1; https://wiki.shibboleth.net/confluence/display/OpenSAML/Home/
yajsw	11.11	LGPL 2.1		
yajsw	N/A	LGPL 2.1		