

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

This software was developed pursuant to Contract DG133W-05-CQ-1067
with the US
Government.

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The AWIPS/CAVE software product contains export-restricted data whose
export/transfer/disclosure is restricted by U.S. law. Dissemination to non-
U.S. persons whether in the United States or abroad requires an export
license or other authorization

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://wwwantlr.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 |

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| 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/ |

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| 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 |

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| 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 Httpmime | 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 |

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| 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 |

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| 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/ |

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| 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/ |

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| 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/ |

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| 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 | | |

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| 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 |

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| 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. | |

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| 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. | |
| jzip2 | 0.9.1 | Matthew J Francis (c) 2010 (MIT License) | jzip2 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://jepp.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/ |

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| Jetty | 8.1.15.v20140411 | 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/ |

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| 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 automata. | http://sourceforge.net/projects/jrex/ |
| JSR 275 Javax Measure | 1.0-beta-2 | JSscience (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/ |
| 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 | |

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| 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. | |

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| 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 |

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| 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/ |

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| 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/ |

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| 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/ |

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| 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 | |

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| 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. | |

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| 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 | | |