

Network Management System

Licensing Information User Manual.

Release 2.6.0.2.0

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Contents

Chapter 1

Introduction	1-1

Chapter 2

Licensing Information	2-1
Product Descriptions	2-1
License Restrictions Matrix	2-5

Chapter 3

Third Party Notices	3-1
Bundled Third Party Products	3-1
Required Unbundled Oracle and Third Party Products	3-4

Chapter 4

Third Party Licenses and Copyright Notices	4-1

Chapter 1

Introduction

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Chapter 2

Licensing Information

Oracle Utilities Network Management System product is comprised of two distinct product suites: Oracle Utilities Outage Management System (OMS) and Oracle Utilities Distribution Management System (DMS). These products each contain a number of optional components with restricted functionality that can only be used if they have been licensed.

Product Descriptions

Functional Area	Description
Outage Management System Base	The Oracle Utilities Network Management System (NMS) operations model, and tools to support and administrate the model and integration to leading GIS vendors. Core functionality to manage outages, including tracking of outage durations at the customer level, outage causes, and actions taken. Includes: Web Workspace, Web Trouble, Model Management, Topology Validation, Configuration Assistant, Generic IVR Adapter, GIS Adapters (Esri, Intergraph, GE Smallworld)
OMS Option: Outage Management Switching and Schematics	Functionality that allows operators to record switching actions electronically via interaction with a map view of the covered service area and operations model. Also the ability to generate schematic diagrams of the major network model elements. Includes: Web Switching Management, Schematics (schematica)
OMS Option: Outage Management Adapters	Modules for integrating Oracle Utilities Outage Management System to foreign systems such as CIS, IVR, AMI, AVL, and Mobile systems. Includes: Generic IBM MQ Mobile Adapter, MultiSpeak adapter flows for AMI and AVL integration, and SOAP Web Services

Functional Area	Description
OMS Option: Outage Management Call Center	Tools used to enter calls into the system, easily query status of specific customers, and track the progress of restoration callbacks. Includes: Web Call Entry, Web Callbacks
OMS Option: Outage Management Storm Management	Functionality used to estimate when assessment and restoration will be complete for various types of outages, broken out by section of the distribution network. Ability to forecast the impact of bringing on additional resources, or determining the resource need to meet target objectives. Includes: Storm Management
OMS Option: Outage Management Paging	Functionality used to provide automatic internal notifications from the Oracle Utilities Outage Management System to identify specific customers affected, major outages, beginning and ending of storm events, and status of planned outages. Includes: Service Alert
OMS Option: Network Management Flex OMS Client	A browser-based version of NMS providing core OMS capabilities to take authority, see lists of events and crews within subscribed area, be able to view and update crew statuses and event details, and see a distribution network interactive map with functionality similar to the Operations Mobile Application. Note: Flex Operations is not supported on tablets or smartphones. Includes: Flex Operations core OMS functions
Distribution Management System Base	The Oracle Utilities Network Management System (NMS) operations model, and tools to support and administrate the model and integration to leading GIS vendors. Functionality that allows operators to record switching actions electronically via interaction with a map view of the covered service area and operations model. Includes: Web Workspace, Web Switching Management, Model Management, Topology Validation, Configuration Assistant, GIS Adapters (Esri, Intergraph, GE Smallworld), Schematics (schematica)
DMS Option: Distribution Management Power Flow	Functionality that provides an integrated three phase unbalanced power flow solution built into the system operator's normal business processes and work flows to provide enhanced decision support. Includes: Power Flow, Weather Data Adapter, DERMS Adapter, Profile Adapter

Functional Area	Description
DMS Option: Distribution Management Advanced Feeder Management	Functionality that allows operators to query the system for recommendations of specific switching situations, including load shed events. The system can present a set of switching actions to address a set objective which the operator can review, modify, and utilize. Also the ability to see hourly peak forecasts for the next 24 hours and daily peak forecast for the remainder of the week to provide advance warning of potential load issues, allowing proactive responses. Includes: Suggested Switching, Load Shed & Restoration, Feeder Load Management
DMS Option: Distribution Management Fault Location Isolation and Service Restoration	Functionality that, based on SCADA triggers such as lockouts and fault indications/location, determine the specific protective device which has cleared a sustained fault, identifies the de-energized sections, and determines the available alternate supplies for re-energization. Includes: Fault Location, Isolation, and Service Restoration
DMS Option: Distribution Management Volt/VAr Optimization	Functionality that helps operators to recognize and be able to affect voltage on the network, utilizing the power of the system to prepare and present recommendations to the operator for action. Includes: Network Optimization
DMS Option: Distribution Management Fault Location Analysis	Functionality that determines the distance downstream of fault measurements where a fault is estimated to have occurred. All potential fault locations are displayed in graphical and tabular formats and the operator can incrementally reject or confirm fault locations as crews provide feedback on fault dispatches. Includes: Fault Location Analysis
NMS Option: SCADA Interface	Functionality that supports bringing in SCADA data via a variety of standards-based adapter options, displaying SCADA Summary data and SCADA Alarms, and leveraging the data in support of DMS applications. Outbound SCADA controls are also supported. Includes: SCADA Extensions, SCADA Measurements adapter (scadapop), Generic SCADA Adapter, ICCP Adapter, MultiSpeak SCADA Adapter, OSI SCADA Adapter, SCADA Calculation Engine
NMS Option: Flex SCADA	Full Distribution SCADA (D-SCADA) application functionality. Requires an additional Live Energy Connect (LEC) license for industrial protocol Front End Processor (FEP) and communications support. Includes: Display Editors, Device Commissioning, Measurement/State Validation, Limits Processing, Calculated Points, Alarms Processing, Sequence of Events, Trending, Logging
NMS Option: Training Simulator	Functionality that allows a trainer to record scenarios including customer calls, AMI last gasps, and simulated device operations in support of training. Each scenario can be played back for a trainee, paused, modified, and monitored by the trainer. Includes: NMS Training Simulator

Functional Area	Description
NMS Option: Operations Mobile Application	Application for Android, iOS, and Windows devices that allows field personnel to be quickly registered, assigned work, update status, report blocked roads, enter damage assessment details, receive and respond to switching steps, and update basic NMS event information such as ERT, notes, and so forth. REST API also can be used to integrate a 3rd-party mobile solution to NMS. Includes: Operations Mobile Application template app, REST API
NMS Option: Distribution Management Grid DERMS	Functionality that enables dispatch of DER through optimized plans (Network Optimization/Suggested Switching/FLISR). Enables Active Network Management Switching. Enables Network Capacity Allocation which manages Distributed Energy Resource markets. Includes: Active Network Management
NMS Option: Network Management Flex NMS Client	An add-on to the Flex OMS Client that provides additional browser-based functionality such as switching management and some other NMS functions beyond the core OMS functions of the Flex OMS Client. Includes: Flex Operations additional NMS functions. Requires Network Management Flex OMS Client.
NMS Option: Distribution Management Edge DERMS	Functionality that allows users to control the dispatch of aggregator-managed DER at the Behind The Meter level through strategies and events. Edge DERMS is an integrated part of Oracle's DERMS solution that requires Oracle Utilities Network Management System, Oracle Utilities Live Energy Connect (LEC), Oracle Utilities Analytical Insights (OUAI), Oracle Integration Cloud (OIC), and Oracle Utilities Digital Asset Management (DAM).

License Restrictions Matrix

Oracle Utilities Outage Management System and Oracle Utilities Distribution Management System each contain a number of options whose functionality are restricted, and can only be used if specific options have been licensed.

The table below indicates the options included with or available to each of the listed products.

- ✓ Indicates that the option is included with the product.
- ✓* Indicates that the option is included with the product, but must be licensed separately. For example, a customer licensing Oracle Utilities Network Management System who wishes to use the Call Center feature must also license the Call Center option. Also, note that Outage Management System Base and Distribution Management System Base are licensed separately

Product/Option	OMS	DMS
Outage Management System Base	✓	
Outage Management Switching and Schematics	✓*	
Outage Management Adapters	✓*	
Outage Management Call Center	✓*	
Outage Management Storm Management	✓*	
Outage Management Paging	✓*	
Network Management Flex OMS Client	✓*	
Distribution Management Base		✓
Distribution Management Power Flow		✓*
Distribution Management Advanced Feeder Management		✓*
Distribution Management Fault Location Isolation and Service Restoration		✓*
Distribution Management Volt/Var Optimization		✓*
Distribution Management Fault Location Analysis		✓*
Distributed Energy Resource Management		✓*
Network Management SCADA	✓*	✓*
Network Management Training Simulator	✓*	✓*
Operations Mobile Application	✓*	✓*
Network Management Flex NMS Client	✓*	✓*
Flex SCADA	✓*	✓*

Chapter 3

Third Party Notices

Bundled Third Party Products

The following table lists third party software bundled with the Oracle Utilities Network Management System release and installed as part of the base product installation.

Vendor	Product	Version
ANTLR Project	antlr4	4.13.1
Apache Software Foundation	Apache Ant	1.10.14
	Apache Ant-Contrib	4df3dfe
	Apache Batik SVG Toolkit	1.17
	Apache Commons BeanUtils	1.9.4
	Apache Commons CLI	1.8
	Apache Commons Collections	4.5.0-M2
	Apache Commons Compress	1.26.2
	Apache Commons Configuration2	2.10.1
	Apache Commons Exec	1.4.0
	Apache Commons IO	2.12
	Apache Commons Lang	3.14.0
	Apache Commons Logging	1.2-0a2317f
	Apache Commons Text	1.12.0
	Apache Jena	4.10.0
	Apache Log4j2	2.20.0
Apache Software Foundation	Apache POI	5.2.5
	Apache XmlBeans	5.2.1
Markus Bernhardt	proxy-vole	1.1.5

Vendor	Product	Version
Boost.org	Boost	1.85.0
Nathan Cahill	Split.js	1.6.5
COIN-OR Foundation	CBC	2.10.11
Timothy Crosley	isort	5.13.2
Eclipse Foundation	Jakarta JSON Processing	2.1.3
	jersey-client	3.1.7
	jersey-container-jdk-http	3.1.7
	jersey-hk2	3.1.7
	jersey-media-json-jackson	3.1.7
FasterXML, LLC	jackson-annotations	2.17.2
	jackson-core	2.17.2
	jackson-databind	2.17.2
	jackson-module-jaxb-annotations	2.17.2
Genevia	gSoap	2.8.133
Google	Google Guava	32.0.1
	Gson	2.11.0
gRPC Authors	grpc-netty-shaded	1.66.0
	grpc-protobuf	
	grpc-stub	
Philip Hazel	PCRE library	10.43
iamkun	dayjs	1.11.11
JGraph Ltd	JGraphX	4.2.2
Jonathan Hedley	jsoup	1.18.1
Kai Toedter	Jcalendar	1.3.2
Stuart Knightley, David Duponchel	JSZipUtils	3.10.1
lighttpd	lighttpd	1.4.76
Oliver Moran	jimp	0.22.10
NetCat AG	ReportCat	1.1.1
OpenLayers	OpenLayers	7.5.2
OWASP Foundation	Java HTML Sanitizer	20240325.1
The pip developers	pip	24.0

Vendor	Product	Version
Andrey Petrov	urllib3	2.2.2
Python Software Foundation	Python	3.12.3
PROJ	PROJ	9.4.0
Proj4j	Proj4j	2.11.0
QOS.ch	SLF4J	2.0.16
	slf4j-api	2.0.16
	slf4j-jdk14	2.0.16
	slf4j-nop 2.0.16	2.0.16
Kenneth Reitz	requests	2.32.3
Johann C. Rocholl, Florent Xicluna, and Ian Lee	pycodestyle	2.11.1
Douglas C. Schmidt	ACE	7.1.4, 7.0.11
Singular Systems	JEP	2.4.1
SQLite	SQLite	3.45.3
Vanderbilt University	The ACE Orb (TAO)	3.0.8
John McNamara	XlsxWriter	3.2.0
Marshall A. Greenblatt	Chromium Embedded Framework (CEF)	126.2.12+g162c3d6+chromium-126.0.6478.127
Marshall A. Greenblatt	java-cef	7a13412
Oracle	JavaScript Extension Toolkit (JET)	16.1.6
SmartBear Software	swagger-jaxrs2	2.2.22
	swagger-jaxrs2-servlet-initializer	2.2.22

Required Unbundled Oracle and Third Party Products

The following table lists non-NMS Oracle and third party software that are required for specific product modules of the Oracle Utilities Network Management System release, but not bundled with the released software. These products must be separately installed by the end user as part of the base product installation. Some products also require separate licenses as noted.

Vendor	Product	Version	Notes
Oracle	Active Data Guard	19.23+	Required for High Availability. This is a licensed option to the Oracle RDBMS Enterprise Edition.
Oracle	Oracle Analytics Server	7.0	Used for business intelligence reports and for printing and e-mailing web switching plans.
Oracle	Enterprise Manager	13.4	Required for NMS Application Management Pack.
Oracle	Java Developer Kit (JDK)/ Java Runtime Environment (JRE)	1.8.0_421+	Used by Java GUI components and web-service based interfaces (Client and Server side)
64-bit Java is required for most NMS models. 32-bit Java may be sufficient for some non-production NMS environments.			
Oracle	Live Energy Connect	7.1+ (Windows)	Needed for the SCADA Adapter
		8.0+ (Linux)	Needed for Flex SCADA
Oracle	Oracle RDBMS Enterprise Edition Server	19.23+	Required for core Oracle Utilities Network Management System functionality.
Oracle	Oracle RDBMS Full Client	19.3+	Required for core Oracle Utilities Network Management functionality
Oracle	Oracle WebLogic Server Standard, Enterprise, or Suite Editions 12c, Fusion Middleware Infrastructure	12.2.1.4+	Used by Java GUI components and web-service based interfaces
Esri	ArcGIS/ArcFM	10.x	Esri GIS
Esri	ArcGIS Pro Utility Network	2.x	Esri Utility Network Model GIS
GE	Smallworld GIS	4.x	Smallworld GIS
Grzegorz Kowal	Launch4j Executable Wrapper	3.50	Used with NSIS to install standalone Java client applications from the Configuration Assistant.
IBM	MQ	8.0.0.4	Needed for Generic IBM MQ Adapters

Vendor	Product	Version	Notes
Intergraph	G/Electric GIS	9.3.x, 10.x	Intergraph GIS
nodesjs.org	NodeJS	21.2.0	NodeJS is a build and package management tool used to build the Operations Mobile Application
Nullsoft	NSIS (Nullsoft Scriptable Install System)	3.10	Used with Launch4j to install standalone Java client applications from the Configuration Assistant.
The OpenSSL Project	OpenSSL	1.1.1k+	Used for secure communication between SwService (used in CVR and FLISR) and WebLogic server

Operating Systems and Browsers

Vendor	Product	Version	Notes
Apple	iOS	16.x+	Used to run Flex Operations and Operations Mobile Application clients
Apple	Safari	16+	Supported for installing the Operations Mobile Application PWA app on an iOS device. Also supported for the Flex Operations application on an iOS device.
Google	Android	11.x+	Used to run Flex Operations and Operations Mobile Application clients
Google	Chrome	130+	Used to display online help and when using Java Web Start to download the NMS Java client applications. Also supported for the Flex Operations application as well as for installing the Operations Mobile Application PWA app on Windows and Android devices.
Microsoft	Edge (Chromium)	130+	Used to display online help and when using Java Web Start to download the NMS Java client applications. Also supported for the Flex Operations application as well as for installing the Operations Mobile Application PWA app on a Windows device.
Microsoft	Windows	10, 11 (64-bit)	Used to run all client applications

Vendor	Product	Version	Notes
Mozilla	Firefox	128+	Used to display online help and when using Java Web Start to download the NMS Java client applications. Also supported for the Flex Operations application.

Notes on Non-NMS Oracle and Third Party Products:

- For a full explanation of Java version support for NMS applications, please refer to the following KM support article (Doc ID 1992766.1) :
<https://support.oracle.com/rs?type=doc&id=1992766.1>
- Oracle WebLogic comes in Standard Edition (SE), Enterprise Edition (EE), and Suite. WebLogic is an additional license that is required for NMS; any of the three options can be used. However, WebLogic Server EE and WebLogic Suite support clustering, while WebLogic Server SE does not. Fusion Middleware Infrastructure is also supported as an alternative to WebLogic Enterprise Edition, though WebLogic Enterprise Edition is recommended.
- Oracle RDBMS Enterprise Edition and Oracle BI Publisher are separately licensed modules from Oracle.
- Oracle Operations Mobile Application and Flex Operations are separately licensed modules from Oracle.
- IBM MQ requires a separate third party license to be acquired by Oracle customers.
- A plus sign (+) after the fourth digit in the version number indicates that this and all versions of the JRE/JDK extensions are supported. For example, 1.8.0_77+ means that 1.8.0_77 and any higher 1.8.0_xx versions are supported.

Chapter 4

Third Party Licenses and Copyright Notices

This chapter provides licensing and copyright information associated with the open source third party products installed with the Oracle Utilities Network Management System. See [Chapter 3, Third Party Notices](#), for specific 3rd Party product version numbers supported with this release.

```
### Andreas Kuhtz proxy-vole 1.1.5
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```

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----- Fourth-party information -----

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----- Fourth Party Dependencies Summary

```
net.java.dev.jna:jna:jar
net.java.dev.jna:jna-platform:jar
    org.apache.commons:commons-configuration2:jar
        org.apache.commons:commons-lang3:jar
        org.apache.commons:commons-text:jar
        commons-logging:commons-logging:jar
org.mozilla:rhino-runtime:jar
    org.javadelight:delight-rhino-sandbox:jar
org.slf4j:slf4j-api:jar
```

----- (separator) -----

----- Dependency
net.java.dev.jna:jna:jar

----- License Type
SPDX-License-Identifier: Apache-2.0 OR LGPL-2.1

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----- (separator) -----

----- Dependency

net.java.dev.jna:jna-platform:jar

----- License Type

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* Source: https://github.com/jax-rs/api
```

```
javax.ws.rs:jsr311-api:jar:1.1.1 (1.1.1)
```

```
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* Source:
  http://search.maven.org/remotecontent?filepath=javax/ws/rs/jsr311-
api/1.1.1/jsr311-api-1.1.1-sources.jar
```

```
javax:javaee-web-api:jar:7.0 (7.0)
```

```
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  http://search.maven.org/remotecontent?filepath=javax/javaee-web-
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```

```
JUnit (4.12)
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v.2 with CPE]


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#04    jakarta.annotation » jakarta.annotation-api [EPL 2.0 / GPL2
w CPE]
#05    org.glassfish.hk2 » osgi-resource-locator [EPL 2.0 / GPL2 w
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Jackson JSON processor

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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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This is a Java port of Daniel Lemire's fast_float project.
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tree:
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builtins/certdata.txt
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Files:

src/jogamp/graph/geom/plane/AffineTransform.java
src/jogamp/graph/geom/plane/IllegalPathStateException.java
src/jogamp/graph/geom/plane/NoninvertibleTransformException.java
src/jogamp/graph/geom/plane/PathIterator.java
src/jogamp/graph/geom/plane/Path2D.java
src/jogamp/graph/math/plane/Crossing.java
src/org/apache/harmony/misc/HashCode.java

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<<https://java.net/projects/typecast>>

Author: David Schweinsberg

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Files:

src/jogl/classes/jogamp/graph/font/typecast/ot/*
src/jogl/classes/jogamp/graph/font/typecast/ot/table/*

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Files:
src/jogamp/graph/font/fonts/ubuntu/*

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Files:
make/stub_includes/cg/CG/**

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====

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<<http://code.google.com/p/pngj/>>

Author: Hernan J. Gonzalez and Shawn Hartsock

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src/jogl/classes/jogamp/opengl/util/pngj/**

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== NAME OF DEPENDENCY 3

== chromium/src/base/third_party/cityhash

CityHash

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Google Double Conversion
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----- (separator) -----
=====
== NAME OF DEPENDENCY 5
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Netscape Portable Runtime (NSPR)
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-----
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Paul Hsieh's SuperFastHash
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```

```

== NAME OF DEPENDENCY 7
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google-glog's symbolization library
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----- (separator) -----
-----
== NAME OF DEPENDENCY 8
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xdg-user-dirs
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----- (separator) -----
-----
== NAME OF DEPENDENCY 9
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chromevox/third_party/tamachiyomi
Tamachiyomi
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```
== NAME OF DEPENDENCY 10
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third_party
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```
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Original:  File xz-5.0.5/COPYING from
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Retrieved: 20-Sep-2013
```

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-----
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```
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-----
```

```
== NAME OF DEPENDENCY 12
```

```
== chromium/src/chrome/third_party/mozilla_security_manager
```

```
Mozilla Personal Security Manager
```

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== NAME OF DEPENDENCY 24

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xxHash

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== NAME OF DEPENDENCY 25

== chromium/src/third_party/angle/src/libANGLE/renderer/vulkan/
shaders/src/third_party/etc_decoder
Granite

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== NAME OF DEPENDENCY 26
== chromium/src/third_party/angle/src/libANGLE/renderer/vulkan/
shaders/src/third_party/ffx_spd
FidelityFX Single Pass Downsampler
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Nvidia Control X Extension Library
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*/
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-----
== NAME OF DEPENDENCY 28
== chromium/src/third_party/angle/src/third_party/volk
Volk Meta loader for Vulkan API
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```



```

== NAME OF DEPENDENCY 29
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astc-encoder
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Desugar, transforming Java 8 bytecode to be Java 7 compatible
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== NAME OF DEPENDENCY 32

== chromium/src/third_party/angle/third_party/EGL-Registry
Khronos EGL API and Extension Registry

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== NAME OF DEPENDENCY 34

== chromium/src/third_party/angle/third_party/OpenCL-Docs
Khronos OpenCL API, OpenCL C, Extensions, SPIR-V Environment Specs,
Ref page, and C++ for OpenCL doc sources.

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== NAME OF DEPENDENCY 35

== chromium/src/third_party/angle/third_party/OpenCL-ICD-Loader
Khronos OpenCL ICD Loader

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== NAME OF DEPENDENCY 36
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== NAME OF DEPENDENCY 37
== chromium/src/third_party/angle/third_party/spirv-headers
SPIR-V Headers
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== NAME OF DEPENDENCY 38
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== NAME OF DEPENDENCY 39
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Vulkan API headers
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== NAME OF DEPENDENCY 51

== chromium/src/third_party/cast_core

CastCore Publics

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----- (separator) -----

== NAME OF DEPENDENCY 52

== chromium/src/third_party/catapult/experimental/trace_on_tap/

third_party/pako

pako - zlib port to javascript, very fast!

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----- (separator) -----

== NAME OF DEPENDENCY 53
 == chromium/src/third_party/catapult/third_party/apiclient
 apiclient
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Dependent Modules

=====

This code has the following dependencies
 above and beyond the Python standard library:
 uritemplates - Apache License 2.0
 httplib2 - MIT License

----- (separator) -----

== NAME OF DEPENDENCY 54
 == chromium/src/third_party/catapult/third_party/beautifulsoup4
 BeautifulSoup
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Beautiful Soup incorporates code from the html5lib library, which is
 also made available under the MIT license.

```

----- (separator) -----
=====
== NAME OF DEPENDENCY 55
== chromium/src/third_party/catapult/third_party/cachetools
cachetools
== Copyright Notices
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See "uPlot" for license text
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=====
== NAME OF DEPENDENCY 56
== chromium/src/third_party/catapult/third_party/certifi
certifi
== Copyright Notices
Subject: CN=OISTE WISeKey Global Root GA CA O=WISeKey OU=Copyright (c)
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certdata.txt?raw=1#
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@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03
15:11:58 $
----- (separator) -----
=====
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pyasn1
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== NAME OF DEPENDENCY 58

== chromium/src/third_party/catapult/third_party/cloudstorage
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=====
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== NAME OF DEPENDENCY 60

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Flot

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== NAME OF DEPENDENCY 61

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google-auth

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google-endpoints

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Graphy

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gutil
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=====
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=====
== NAME OF DEPENDENCY 67
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idna
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== NAME OF DEPENDENCY 68

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ijson

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== NAME OF DEPENDENCY 69

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jQuery

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== NAME OF DEPENDENCY 70

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== NAME OF DEPENDENCY 71

== chromium/src/third_party/catapult/third_party/mapreduce

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== NAME OF DEPENDENCY 72

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oauth2client

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=====
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----- (separator) -----
=====
== NAME OF DEPENDENCY 74
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Polymer
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----- (separator) -----
=====
== NAME OF DEPENDENCY 75
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----- (separator) -----
=====
== NAME OF DEPENDENCY 76
== chromium/src/third_party/catapult/third_party/pyfakefs

```



```

pyfakefs
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----- (separator) -----
-----
== NAME OF DEPENDENCY 77
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pyparsing
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== NAME OF DEPENDENCY 78
== chromium/src/third_party/catapult/third_party/python_gflags
python-gflags
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== NAME OF DEPENDENCY 79
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Redux
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== NAME OF DEPENDENCY 80
== chromium/src/third_party/catapult/third_party/requests_toolbelt
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----- (separator) -----
-----
== NAME OF DEPENDENCY 81
== chromium/src/third_party/catapult/third_party/rsa
rsa
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== NAME OF DEPENDENCY 82

== chromium/src/third_party/catapult/third_party/six
six

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== NAME OF DEPENDENCY 83

== chromium/src/third_party/catapult/third_party/typ
typ

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writemplate
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Chrome d8 for executing javascript
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```

- Strongtalk assembler, the basis of the files assembler-arm-inl.h, assembler-arm.cc, assembler-arm.h, assembler-ia32-inl.h, assembler-ia32.cc, assembler-ia32.h, assembler-x64-inl.h, assembler-x64.cc, assembler-x64.h, assembler-mips-inl.h, assembler-mips.cc, assembler-mips.h, assembler.cc and assembler.h. This code is copyrighted by Sun Microsystems Inc. and released under a 3-clause BSD license.

- Valgrind client API header, located at third_party/valgrind/valgrind.h

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webapp2

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== NAME OF DEPENDENCY 88

== chromium/src/third_party/catapult/tracing/third_party/jpeg-js

jpeg-js

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== NAME OF DEPENDENCY 89

== chromium/src/third_party/catapult/tracing/third_party/oboe
 Oboe.js

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== NAME OF DEPENDENCY 90

== chromium/src/third_party/catapult/tracing/third_party/symbols

symbols module from Chromium

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ChromeVox

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== chromium/src/third_party/chromevox/third_party/closure-library

Closure Library

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== chromium/src/third_party/chromevox/third_party/sre

Speech Rule Engine

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== NAME OF DEPENDENCY 96
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```
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== chromium/src/third_party/crc32c
CRC32C
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=====
== NAME OF DEPENDENCY 106
== chromium/src/third_party/cros-components
ChromeOS Components
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=====
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== chromium/src/third_party/d3
d3
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=====
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 Dawn
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 == chromium/src/third_party/dawn/third_party/khronos
 Khronos EGL
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The current version of the Registry, generator scripts
used to make the header, and the header can be found at
  http://www.khronos.org/registry/egl
Khronos $Git commit SHA1: 6fb1daea15 $ on $Git commit date: 2022-05-25
09:41:13 -0600 $
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-----
== NAME OF DEPENDENCY 111
== chromium/src/third_party/decklink
Blackmagic DeckLink SDK - Mac
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=====
== NAME OF DEPENDENCY 112
== chromium/src/third_party/devtools-frontend
Devtools-Frontend
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----- (separator) -----
=====
== NAME OF DEPENDENCY 113
== chromium/src/third_party/devtools-frontend/src/front_end/
third_party/acorn
Acorn, a tiny, fast JavaScript parser written in JavaScript.
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=====
== NAME OF DEPENDENCY 114
== chromium/src/third_party/devtools-frontend/src/front_end/
third_party/codemirror
CodeMirror 5
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=====
== NAME OF DEPENDENCY 115
== chromium/src/third_party/devtools-frontend/src/front_end/
third_party/codemirror.next
CodeMirror 6
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=====
== NAME OF DEPENDENCY 116
== chromium/src/third_party/devtools-frontend/src/front_end/
third_party/csp_evaluator

```

```

CSP Evaluator Core Library, a tool that allows developers to check if a
Content Security Policy (CSP) serves as mitigation against XSS attacks
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=====
== NAME OF DEPENDENCY 117
== chromium/src/third_party/devtools-frontend/src/front_end/
third_party/diff
The Diff Match and Patch libraries offer robust algorithms to perform
the operations required for synchronizing plain text.
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=====
== NAME OF DEPENDENCY 118
== chromium/src/third_party/devtools-frontend/src/front_end/
third_party/il8n
Lighthouse il8n.js
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=====
== NAME OF DEPENDENCY 119
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third_party/intl-messageformat
intl-messageformat
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=====
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== chromium/src/third_party/devtools-frontend/src/front_end/
third_party/lighthouse
Lighthouse
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=====
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== chromium/src/third_party/devtools-frontend/src/front_end/
third_party/lit
Lit
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=====
== NAME OF DEPENDENCY 122

```

```

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third_party/lodash-isequal
lodash.isequal
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third_party/marked
Marked
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== chromium/src/third_party/devtools-frontend/src/front_end/
third_party/puppeteer
Puppeteer Core

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these parts are used by default, you have to explicitly pass `--enable-
gpl` to
configure to activate them. In this case, FFmpeg's license changes to
GPL v2+.
Specifically, the GPL parts of FFmpeg are:
- libpostproc
- optional x86 optimization in the files
  - `libavcodec/x86/flac_dsp_gpl.asm`
  - `libavcodec/x86/idct_mmx.c`
  - `libavfilter/x86/vf_removegrain.asm`
- the following building and testing tools
  - `compat/solaris/make_sunver.pl`
  - `doc/t2h.pm`
  - `doc/texi2pod.pl`
  - `libswresample/tests/swresample.c`
  - `tests/checkasm/*`
  - `tests/tiny_ssim.c`
- the following filters in libavfilter:
  - `signature_lookup.c`
  - `vf_blackframe.c`
  - `vf_boxblur.c`
  - `vf_colormatrix.c`
  - `vf_cover_rect.c`
  - `vf_cropdetect.c`
  - `vf_delogo.c`
  - `vf_eq.c`
  - `vf_find_rect.c`
  - `vf_fspp.c`
  - `vf_histeq.c`
  - `vf_hqdn3d.c`
  - `vf_kerndeint.c`
  - `vf_lensfun.c` (GPL version 3 or later)
  - `vf_mcdeint.c`
  - `vf_mpdecimate.c`
  - `vf_nnedi.c`
  - `vf_owdenoise.c`
  - `vf_perspective.c`
  - `vf_phase.c`
  - `vf_pp.c`
  - `vf_pp7.c`
  - `vf_pullup.c`
  - `vf_repeatfields.c`

```

```

- `vf_sab.c`
- `vf_signature.c`
- `vf_smartblur.c`
- `vf_spp.c`
- `vf_stereo3d.c`
- `vf_super2xsai.c`
- `vf_tinterlace.c`
- `vf_uspp.c`
- `vf_vaguedenoiser.c`
- `vsrc_mptestsrc.c`

```

Should you, for whatever reason, prefer to use version 3 of the (L)GPL, then

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for you. Read the file `COPYING.LGPLv3` or, if you have enabled GPL parts,

`COPYING.GPLv3` to learn the exact legal terms that apply in this case. There are a handful of files under other licensing terms, namely:

* The files `libavcodec/jfdctfst.c`, `libavcodec/jfdctint\_template.c` and

`libavcodec/jrevdct.c` are taken from libjpeg, see the top of the files for

licensing details. Specifically note that you must credit the IJG in the

documentation accompanying your program if you only distribute executables.

You must also indicate any changes including additions and deletions to

those three files in the documentation.

* `tests/reference.pnm` is under the expat license.

External libraries

FFmpeg can be combined with a number of external libraries, which sometimes

affect the licensing of binaries resulting from the combination.

Compatible libraries

The following libraries are under GPL version 2:

```

- avisynth
- frei0r
- libcdio
- libdavs2
- librubberband
- libvidstab
- libx264
- libx265
- libxavs
- libxavs2
- libxvid

```

When combining them with FFmpeg, FFmpeg needs to be licensed as GPL as well by

passing `--enable-gpl` to configure.

The following libraries are under LGPL version 3:

```

- gmp
- libaribb24
- liblensfun

```

When combining them with FFmpeg, use the configure option `--enable-version3` to

upgrade FFmpeg to the LGPL v3.

The VMAF, mbedTLS, RK MPI, OpenCORE and VisualOn libraries are under the Apache License

2.0. That license is incompatible with the LGPL v2.1 and the GPL v2, but not with

version 3 of those licenses. So to combine these libraries with FFmpeg, the license version needs to be upgraded by passing `--enable-version3` to configure.

The smbclient library is under the GPL v3, to combine it with FFmpeg, the options `--enable-gpl` and `--enable-version3` have to be passed to

configure to upgrade FFmpeg to the GPL v3.

Incompatible libraries

There are certain libraries you can combine with FFmpeg whose licenses are not

compatible with the GPL and/or the LGPL. If you wish to enable these libraries, even in circumstances that their license may be

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`--enable-nonfree` to configure. This will cause the resulting binary to be

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The Fraunhofer FDK AAC and OpenSSL libraries are under licenses which are

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libavformat/oggparsetheora.c

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libavutil/x86/x86inc.asm

x86inc.asm: x86 abstraction layer

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libavcodec/mips/compute_antialias_float.h
libavutil/fixed_dsp.c
libavutil/fixed_dsp.h
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== NAME OF DEPENDENCY 140

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2-dim General Purpose FFT (Fast Fourier/Cosine/Sine Transform) Package

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== NAME OF DEPENDENCY 141

== chromium/src/third_party/flac

flac

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== NAME OF DEPENDENCY 142

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fontconfig

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== NAME OF DEPENDENCY 145

== chromium/src/third_party/fuchsia-gn-sdk

Fuchsia GN SDK

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== chromium/src/third_party/fxdiv

FXDiv

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GifPlayer Animated GIF Library
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harfbuzz-ng

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Version 1.1

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== NAME OF DEPENDENCY 159

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 google-jstemplate
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 == NAME OF DEPENDENCY 171
 == chromium/src/third_party/khronos
 Khronos header files
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== NAME OF DEPENDENCY 172

== chromium/src/third_party/lens_server_proto

Lens Protos

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== NAME OF DEPENDENCY 173

== chromium/src/third_party/leveldatabase

LevelDB: A Fast Persistent Key-Value Store

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== NAME OF DEPENDENCY 177

== chromium/src/third_party/libaom/source/libaom/third_party/vector

vector

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== NAME OF DEPENDENCY 178

== chromium/src/third_party/libavif

libavif - Library for encoding and decoding .avif files

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== NAME OF DEPENDENCY 179
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== chromium/src/third_party/libc++
libcxx

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log.c:

strncpy.c:

win32.c:

evport.c:

min_heap.h:

tree.h:

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- The [zlib License](https://opensource.org/licenses/Zlib)
  This license is a subset of the other two, and it covers the libjpeg-
  turbo
  SIMD extensions.
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=====
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=====

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=====

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Maintained by John J. Boyer john.boyer@abilitiessoft.com
*/

----- (separator) -----

=====

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International Phone Number Library
== Copyright Notices
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See "coverage" for license text

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----- (separator) -----
=====
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```
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See "yapf" for license text
```

```

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-----
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libsecret
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== chromium/src/third_party/libsrtp
libsrtp

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== NAME OF DEPENDENCY 195

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Lottie Web
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#####
#####
BezierEasing - use bezier curve for transition easing function
by GaÃ«tan Renaudeau 2014 - 2015 Ã© MIT License
Credits: is based on Firefox's nsSMILKeySpline.cpp
Usage:
var spline = BezierEasing([ 0.25, 0.1, 0.25, 1.0 ])

```



```

spline.get(x) => returns the easing value | x must be in [0, 1] range
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Metrics Protos

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=====

== NAME OF DEPENDENCY 232

== chromium/src/third_party/ots

OTS (OpenType Sanitizer)

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== NAME OF DEPENDENCY 233

== chromium/src/third_party/pdfium/third_party/agg23

```

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== NAME OF DEPENDENCY 234
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== chromium/src/third_party/pdfium/third_party/libtiff

LibTIFF

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== NAME OF DEPENDENCY 237

== chromium/src/third_party/perfetto

Perfetto

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== NAME OF DEPENDENCY 238

== chromium/src/third_party/pffft

PFFFT: a pretty fast FFT.

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== NAME OF DEPENDENCY 239

== chromium/src/third_party/private-join-and-compute

Private Join and Compute subset

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Secure Message

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Sentencepiece

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Setupdesign

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skcms
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Speech Dispatcher

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== chromium/src/third_party/sqlite

sqlite

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== chromium/src/third_party/subresource-filter-ruleset

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== NAME OF DEPENDENCY 264

== chromium/src/third_party/sudden_motion_sensor

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== chromium/src/third_party/usb_ids

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== chromium/src/third_party/utf

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== chromium/src/third_party/v4l-utils

v4l-utils

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^L

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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

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1307 USA

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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

----- (separator) -----

== NAME OF DEPENDENCY 275

== chromium/src/third_party/vulkan-deps

Vulkan Deps

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== NAME OF DEPENDENCY 276

== chromium/src/third_party/vulkan_memory_allocator

VulkanMemoryAllocator

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== NAME OF DEPENDENCY 277

== chromium/src/third_party/wayland

wayland

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wayland/COPYING

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== NAME OF DEPENDENCY 278

== chromium/src/third_party/wayland-protocols
wayland-protocols

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== NAME OF DEPENDENCY 279

== chromium/src/third_party/webrtc

WebRTC

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```

== NAME OF DEPENDENCY 280
== chromium/src/third_party/webrtc/common_audio/third_party/oura
General Purpose FFT (Fast Fourier/Cosine/Sine Transform) Package
== Copyright Notices
Copyright Takuya OOURA, 1996-2001
== License
/*
http://www.kurims.kyoto-u.ac.jp/~ooura/fft.html
You may use, copy, modify and distribute this code for any purpose
(include
commercial use) and without fee. Please refer to this package when you
modify
this code.
*/
----- (separator) -----
-----
== NAME OF DEPENDENCY 281
== chromium/src/third_party/webrtc/common_audio/third_party/
spl_sqrt_floor
sql sqrt floor
== Copyright Notices
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== License
/*
Written by Wilco Dijkstra, 1996. The following email exchange
establishes the
license.
From: Wilco Dijkstra <Wilco.Dijkstra@ntlworld.com>
Date: Fri, Jun 24, 2011 at 3:20 AM
Subject: Re: sqrt routine
To: Kevin Ma <kma@google.com>
Hi Kevin,
Thanks for asking. Those routines are public domain (originally posted
to
comp.sys.arm a long time ago), so you can use them freely for any
purpose.
Cheers,
Wilco
----- Original Message -----
From: "Kevin Ma" <kma@google.com>
To: <Wilco.Dijkstra@ntlworld.com>
Sent: Thursday, June 23, 2011 11:44 PM
Subject: Fwd: sqrt routine
Hi Wilco,
I saw your sqrt routine from several web sites, including
http://www.finesse.demon.co.uk/steven/sqrt.html.
Just wonder if there's any copyright information with your Successive
approximation routines, or if I can freely use it for any purpose.
Thanks.
Kevin
*/
----- (separator) -----
-----
== NAME OF DEPENDENCY 282
== chromium/src/third_party/webrtc/modules/third_party/fft
fft
== Copyright Notices
Copyright(c)1995,97 Mark Olesen
== License
/*
Queen's Univ at Kingston (Canada)
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*/

----- (separator) -----

== NAME OF DEPENDENCY 283

== chromium/src/third_party/webrtc/modules/third_party/g711

In line A-law and u-law conversion routines

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Copyright (C) 2001 Steve Underwood

== License

/*

SpanDSP - a series of DSP components for telephony

g711.h - In line A-law and u-law conversion routines

Written by Steve Underwood <steveu@coppice.org>

Despite my general liking of the GPL, I place this code in the public domain for the benefit of all mankind - even the slimy ones who might try to proprietize my work and use it to my detriment.

*/

----- (separator) -----

== NAME OF DEPENDENCY 284

== chromium/src/third_party/webrtc/modules/third_party/g722

The ITU G.722 codec, encode and decode part.

== Copyright Notices

Copyright (C) 2005 Steve Underwood

Copyright (c) CMU 1993

== License

/*

SpanDSP - a series of DSP components for telephony

g722_decode.c - The ITU G.722 codec, decode part.

Written by Steve Underwood <steveu@coppice.org>

Despite my general liking of the GPL, I place my own contributions to this code in the public domain for the benefit of all mankind - even the slimy ones who might try to proprietize my work and use it to my detriment.

Based in part on a single channel G.722 codec which is:

Computer Science, Speech Group

Chengxiang Lu and Alex Hauptmann

*/

----- (separator) -----

== NAME OF DEPENDENCY 285

== chromium/src/third_party/webrtc/modules/third_party/portaudio

Portaudio library for mac

== Copyright Notices

Copyright (c) 1999-2000 Ross Bencina and Phil Burk

```

Copyright (c) 1999-2000 Ross Bencina and Phil Burk
== License
/*
$Id: pa_memorybarrier.h 1240 2007-07-17 13:05:07Z bjornroche $
Portable Audio I/O Library
Memory barrier utilities
Author: Bjorn Roche, XO Audio, LLC
This program uses the PortAudio Portable Audio Library.
For more information see: http://www.portaudio.com
Permission is hereby granted, free of charge, to any person obtaining
a copy of this software and associated documentation files
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*/
/*
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license above.
*/
/*
$Id: pa_ringbuffer.c 1421 2009-11-18 16:09:05Z bjornroche $
Portable Audio I/O Library
Ring Buffer utility.
Author: Phil Burk, http://www.softsynth.com
modified for SMP safety on Mac OS X by Bjorn Roche
modified for SMP safety on Linux by Leland Lucius
also, allowed for const where possible
modified for multiple-byte-sized data elements by Sven Fischer
Note that this is safe only for a single-thread reader and a
single-thread writer.
This program uses the PortAudio Portable Audio Library.
For more information see: http://www.portaudio.com
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*/
----- (separator) -----
=====
== NAME OF DEPENDENCY 286
== chromium/src/third_party/webrtc/rtc_base/third_party/base64
A simple base64 encoder and decoder
== Copyright Notices
// Copyright (c) 1999, Bob Withers - bwit@pobox.com
== License
//
*****
/* Base64 - a simple base64 encoder and decoder.
/*
/* Copyright (c) 1999, Bob Withers - bwit@pobox.com
/*
/* This code may be freely used for any purpose, either personal
/* or commercial, provided the authors copyright notice remains
/* intact.
/*
/* Enhancements by Stanley Yamane:
/* o reverse lookup table for the decode function
/* o reserve string buffer space in advance
/*
//
*****
----- (separator) -----
=====
== NAME OF DEPENDENCY 287
== chromium/src/third_party/webrtc/rtc_base/third_party/sigslot
C++ Signal/Slot Library
== Copyright Notices
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sigslot.h: Signal/Slot classes
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woff2
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== NAME OF DEPENDENCY 290
== chromium/src/third_party/wuffs
Wuffs (Wrangling Untrusted File Formats Safely)

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zlib
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== NAME OF DEPENDENCY 294

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ZIP file API for reading file entries in a ZIP archive
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Normalize.scss

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RequireJS i18n

<http://github.com/requirejs/i18n> for details

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3) <https://github.com/eliben/pycparser>

pycparser -- A C parser in Python

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <https://www.cwi.nl/>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <https://www.cnri.reston.va.us/>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation; see <https://www.zope.org/>). In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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| 1.6          | 1.5.2          | 2000          | CNRI          | no
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| 2.0          | 1.6            | 2000          | BeOpen.com   | no
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| 1.6.1        | 1.6            | 2001          | CNRI          | no
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| 2.1          | 2.0+1.6.1      | 2001          | PSF           | no
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| 2.0.1        | 2.0+1.6.1      | 2001          | PSF           | yes
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| 2.1.1        | 2.1+2.0.1      | 2001          | PSF           | yes
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| 2.1.2        | 2.1.1          | 2002          | PSF           | yes
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| 2.1.3        | 2.1.2          | 2002          | PSF           | yes
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| 2.2 and above | 2.1.1          | 2001-now     | PSF           | yes
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-----
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```
The :mod:`!_random` C extension underlying the :mod:`random` module
includes code based on a download from
http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/
emt19937ar.html. The following are
the verbatim comments from the original code::
```

```
    A C-program for MT19937, with initialization improved 2002/1/26.
    Coded by Takuji Nishimura and Makoto Matsumoto.
```

```
    Before using, initialize the state by using init_genrand(seed)
    or init_by_array(init_key, key_length).
```

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<http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html>

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Sockets

The :mod:`socket` module uses the functions, :c:func:`!getaddrinfo`, and :c:func:`!getnameinfo`, which are coded in separate source files from the WIDE Project, <https://www.wide.ad.jp/>. ::

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Modified by Jack Jansen, CWI, July 1995:

- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The

C version is still 5 times faster, though.

- Arguments more compliant with Python standard

XML Remote Procedure Calls

The :mod:`xmlrpc.client` module contains the following notice::

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Select kqueue

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SipHash24

The file :file:`Python/pyhash.c` contains Marek Majkowski's implementation of Dan Bernstein's SipHash24 algorithm. It contains the following note::

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Original location:
<https://github.com/majek/csiphash/>

Solution inspired by code from:
 Samuel Neves (supercop/crypto_auth/siphhash24/little)
 djb (supercop/crypto_auth/siphhash24/little2)
 Jean-Philippe Aumasson (<https://131002.net/siphhash/siphhash24.c>)

strtod and dtoa

The file :file:`Python/dtoa.c`, which supplies C functions dtoa and strtod for conversion of C doubles to and from strings, is derived from the file of the same name by David M. Gay, currently available from <https://web.archive.org/web/20220517033456/http://www.netlib.org/fp/dtoa.c>.

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OpenSSL

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jloup@gzip.org

Mark Adler
madler@alumni.caltech.edu

cfuhash

The implementation of the hash table used by the :mod:`tracemalloc` is based on the cfuhash project::

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The :mod:`!\_decimal` C extension underlying the :mod:`decimal` module is built using an included copy of the libmpdec library unless the build is configured ``--with-system-libmpdec``:

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W3C C14N test suite

The C14N 2.0 test suite in the :mod:`test` package
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inherits

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string_decoder

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safe-buffer

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util-deprecate

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core-util-is

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isarray

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 process-nexttick-args
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This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities

(CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:
<https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt>
 It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication. Just configure this file as the SSLCertificateFile.#

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