

Network Management System

Licensing Information User Manual.

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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	<p>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.</p> <p>Includes: Web Workspace, Web Trouble, Model Management, Topology Validation, Configuration Assistant, Generic IVR Adapter, GIS Adapters (Esri, Intergraph, GE Smallworld)</p>
OMS Option: Outage Management Switching and Schematics	<p>Functionality that allows operators to record switching actions electronically via interaction with a map view of the covered service area and operations model.</p> <p>Also the ability to generate schematic diagrams of the major network model elements.</p> <p>Includes: Web Switching Management, Schematics (schematica)</p>
OMS Option: Outage Management Adapters	<p>Modules for integrating Oracle Utilities Outage Management System to foreign systems such as CIS, IVR, AMI, AVL, and Mobile systems.</p> <p>Includes: Generic IBM MQ Mobile Adapter, MultiSpeak adapter flows for AMI and AVL integration, and SOAP Web Services</p>

Functional Area	Description
<p>OMS Option:</p> <p>Outage Management Call Center</p>	<p>Tools used to enter calls into the system, easily query status of specific customers, and track the progress of restoration callbacks.</p> <p>Includes: Web Call Entry, Web Callbacks</p>
<p>OMS Option:</p> <p>Outage Management Storm Management</p>	<p>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.</p> <p>Includes: Storm Management</p>
<p>OMS Option:</p> <p>Outage Management Paging</p>	<p>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.</p> <p>Includes: Service Alert</p>
<p>OMS Option:</p> <p>Network Management Flex OMS Client</p>	<p>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.</p> <p>Note: Flex Operations is not supported on tablets or smartphones.</p> <p>Includes: Flex Operations core OMS functions</p>
<p>Distribution Management System Base</p>	<p>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.</p> <p>Includes: Web Workspace, Web Switching Management, Model Management, Topology Validation, Configuration Assistant, GIS Adapters (Esri, Intergraph, GE Smallworld), Schematics (schematica)</p>
<p>DMS Option:</p> <p>Distribution Management Power Flow</p>	<p>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.</p> <p>Includes: Power Flow, Weather Data Adapter, DERMS Adapter, Profile Adapter</p>

Functional Area	Description
<p>DMS Option:</p> <p>Distribution Management Advanced Feeder Management</p>	<p>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.</p> <p>Includes: Suggested Switching, Load Shed & Restoration, Feeder Load Management</p>
<p>DMS Option:</p> <p>Distribution Management Fault Location Isolation and Service Restoration</p>	<p>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.</p> <p>Includes: Fault Location, Isolation, and Service Restoration</p>
<p>DMS Option:</p> <p>Distribution Management Volt/VAr Optimization</p>	<p>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.</p> <p>Includes: Network Optimization</p>
<p>DMS Option:</p> <p>Distribution Management Fault Location Analysis</p>	<p>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.</p> <p>Includes: Fault Location Analysis</p>
<p>NMS Option:</p> <p>SCADA Interface</p>	<p>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.</p> <p>Includes: SCADA Extensions, SCADA Measurements adapter (scadapop), Generic SCADA Adapter, ICCP Adapter, MultiSpeak SCADA Adapter, OSI SCADA Adapter, SCADA Calculation Engine</p>
<p>NMS Option:</p> <p>Flex SCADA</p>	<p>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.</p> <p>Includes: Display Editors, Device Commissioning, Measurement/State Validation, Limits Processing, Calculated Points, Alarms Processing, Sequence of Events, Trending, Logging</p>
<p>NMS Option:</p> <p>Training Simulator</p>	<p>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.</p> <p>Includes: NMS Training Simulator</p>

Functional Area	Description
<p>NMS Option: Operations Mobile Application</p>	<p>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.</p> <p>Includes: Operations Mobile Application template app, REST API</p>
<p>NMS Option: Distribution Management Operational DERMS</p>	<p>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.</p> <p>Includes: Active Network Management</p>
<p>NMS Option: Network Management Flex NMS Client</p>	<p>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.</p> <p>Includes: Flex Operations additional NMS functions. Requires Network Management Flex OMS Client.</p>
<p>NMS Option: Distribution Management Grid Edge DERMS</p>	<p>Functionality that allows users to control the dispatch of aggregator-managed DER at the Behind The Meter level through strategies and events. Grid 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).</p>

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	4.9.3
Apache Software Foundation	Apache Ant	1.10.13
	Apache Ant-Contrib	4df3dfe
	Apache Batik SVG Toolkit	1.16
	Apache Commons BeanUtils	1.9.4
	Apache Commons CLI	1.5
	Apache Commons Collections	3.2.2, 4.4
	Apache Commons Compress	1.22
	Apache Commons Configuration2	2.8
	Apache Commons Exec	1.3-2ca7c03
	Apache Commons IO	2.12
	Apache Commons Lang	3.12
	Apache Commons Logging	1.2-0a2317f
	Apache Commons Text	1.10
	Apache Curator	5.5.0
	Curator-framework	5.5.0
	Apache Curator-recipes	5.5.0
Apache Curator-x-async	5.5.0	
Apache Jena	4.6.1	
Apache Log4j2	2.17.1	

Vendor	Product	Version
Apache Software Foundation	Apache POI	5.2.2
	Apache XmlBeans	5.0.3
Istvan Albert	Altgraph	0.17.3
Markus Bernhardt	proxy-vole	1.0.16
Boost.org	Boost	1.79.0
Nathan Cahill	Split.js	1.6.5
COIN-OR Foundation	CBC	2.10.8
Jason R. Coombs	setuptools	67.8.0
Timothy Crosley	isort	5.12
Eclipse Foundation	Jakarta Annotations API	2.1.0
	Jakarta JSON Processing	2.1.1
	Jakarta Restful Web Services JAX-RS API	3.1.0
	jersey-client	3.0.4
	jersey-container-jdk-http	3.0.4
	jersey-hk2	3.0.4
	jersey-media-json-jackson	3.0.4
FasterXML, LLC	jackson-annotations	2.14.0-rc2
	jackson-core	2.14.0-rc2
	jackson-databind	2.14.0-rc2
	jackson-module-jaxb-annotations	2.14.0-rc2
Genevia	gSoap	2.8.122
Google	Google Guava	32.0.1
	Gson	2.8.9
gRPC Authors	grpc-java	1.57.1
	grpc-api	
	grpc-context	
	grpc-core	
	grpc-netty-shaded	
	grpc-protobuf	
	grpc-protobuf-lite	
grpc-stub		
Philip Hazel	PCRE library	10.40

Vendor	Product	Version
iamkun	dayjs	1.11.7
JGraph Ltd	JGraphX	4.2.2
Jonathan Hedley	jsoup	1.15.3
Kai Toedter	Jcalendar	1.3.2
Stuart Knightley, David Duponchel	JSZipUtils	3.10.1
lighttpd	lighttpd	1.4.66
Oliver Moran	jimp	0.16.2
NetCat AG	Reportcat	1.1.1
OpenLayers	OpenLayers	7.1.0
OWASP Foundation	Java HTML Sanitizer	20211018.2
The pip developers	pip	23.1.2
Andrey Petrov	urllib3	1.26.11
Python Software Foundation	Python	3.10.6
PROJ	PROJ	9.0.1
Proj4j	Proj4j	1.1.4
QOS.ch	SLF4J	2.0.7
	slf4j-api	2.0.7
Kenneth Reitz	requests	2.31.0
Johann C. Rocholl, Florent Xicluna, and Ian Lee	pycodestyle	2.10.0
Douglas C. Schmidt	ACE	7.0.8
Singular Systems	JEP	2.4.1
SQLite	SQLite	3.39.2
Vanderbilt University	The ACE Orb (TAO)	3.0.8
John McNamara	XlsxWriter	3.0.3
Marshall A. Greenblatt	Chromium Embedded Framework (CEF)	100.0.24+g0783cf8+chromium-100.0.4896.127
Marshall A. Greenblatt	java-cef	08efede
Oracle	JavaScript Extension Toolkit (JET)	14.0.10
SmartBear Software	swagger-jaxrs2	2.26

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	19.16+	Required for High Availability. This is a licensed option to the Oracle RDBMS Enterprise Edition.
Oracle	Oracle Analytics Server	6.4	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_381+	Used by Java GUI components and web-service based interfaces (Client and Server side)
	<ul style="list-style-type: none"> 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	19.16+	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
Apache	ZooKeeper	3.8.0-1	Used by the NMS Monitor component of High Availability
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

Vendor	Product	Version	Notes
Grzegorz Kowal	Launch4j Executable Wrapper	3.14	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
Intergraph	G/Electric GIS	9.3.x, 10.x	Intergraph GIS
nodesjs.org	NodeJS	16.15.1+	NodeJS is a build and package management tool used to build the Operations Mobile Application
Nullsoft	NSIS (Nullsoft Scriptable Install System)	3.08	Used with Launch4j to install standalone Java client applications from the Configuration Assistant.
The OpenSSL Project	OpenSSL	1.1.11+	Used for secure communication between SwService (used in CVR and FLISR) and WebLogic server

Operating Systems and Browsers

Vendor	Product	Version	Notes
Apple	iOS	15.x+	Used to run Flex Operations and Operations Mobile Application clients
Apple	Safari	15+	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	10.x+	Used to run Flex Operations and Operations Mobile Application clients
Google	Chrome	115+	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.

Vendor	Product	Version	Notes
Microsoft	Edge (Chromium)	115+	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
Mozilla	Firefox	102+	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.

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 - [boost](#)
 - [gsoap](#)
 - [JGraphX](#)
 - [PROJ](#)
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 - [Python](#)
 - [SQLite](#)
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Licenses

Components Released Under the ACE / TAO License

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2005," which established new daylight savings times (DST) rules for the United States that expand DST as of March 2007. Since DOC software obtains time/date and calendaring information from operating systems users will not be affected by the new DST rules as long as they upgrade their operating systems accordingly.

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Apache Components

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- Apache Ant-Contrib
- Apache Batik SVG Toolkit
- Apache Commons BeanUtils
- Apache Commons CLI
- Apache Commons Collections
- Apache Commons Compress
- Apache Commons Configuration
- Apache Commons Exec
- Apache Commons HttpClient
- Apache Commons IO
- Apache Commons Lang
- Apache Commons Logging
- Apache Curator
- Apache Curator-framework
- Apache Curator-recipes
- Apache Curator-x-async
- Apache Jena
- Apache Log4j
- Apache POI
- Apache XmlBeans
- Apache XML Commons External
- Apache Zookeeper

Other Components

- deep-equals
- grpc-netty-shaded
- grpc-protobuf
- grpc-stub
- Gson
- Guava
- jackson-annotations
- jackson-core
- jackson-databind
- jackson-module-jaxb-annotations
- Java HTML Sanitizer
- JIntellitype
- proxy-vole
- requests

```
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gsoap

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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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=====

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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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src/jogl/classes/jogamp/graph/font/typecast/ot/mac/*
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Version 1.0

<http://font.ubuntu.com/ufl/ubuntu-font-licence-1.0.txt>

Or within this repository: doc/licenses/ubuntu-font-licence-1.0.txt

Files:

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

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Files:

make/stub_includes/cg/CG/**

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PNGJ

====

PNGJ: Java library for reading and writing PNG images.

Version 1.12 (3 Dec 2012)

<<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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Chai

<https://github.com/chaijs/chai>

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expression-eval

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Normalize.scss

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RequireJS i18n

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RequireJS text

<http://github.com/requirejs/text>

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== NAME OF DEPENDENCY 2

== chromium/src/base/third_party/cityhash

CityHash

CityHash:1.1.1

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== NAME OF DEPENDENCY 3

== chromium/src/base/third_party/double_conversion

Google Double Conversion

double-conversion:9df6272fef846401afbf839cbe7d0f9e319fe08

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== NAME OF DEPENDENCY 4
== chromium/src/base/third_party/dynamic_annotations
dynamic_annotations
dynamic_annotations:4384

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Author: Kostya Serebryany
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```
== NAME OF DEPENDENCY 5
== chromium/src/base/third_party/libevent
libevent
libevent:1.4.15
```

```
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a list:

log.c:

strlcpy.c:

win32.c:

evport.c:

min_heap.h:

tree.h:

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

== NAME OF DEPENDENCY 6

== chromium/src/base/third_party/nspr

Netscape Portable Runtime (NSPR)

Netscape Portable Runtime (NSPR):3.37

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== NAME OF DEPENDENCY 7
== chromium/src/base/third_party/superfasthash
Paul Hsieh's SuperFastHash
SuperFastHash:2012-02-21

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

== NAME OF DEPENDENCY 8
== chromium/src/base/third_party/symbolize

```
google-glog's symbolization library
google-glog's symbolization
library:130a3e10de248344cdaeda54aed4c8a5ad7cedac
```

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== NAME OF DEPENDENCY 9
```

```
== chromium/src/base/third_party/xdg_mime
```

```
xdg-mime
```

```
xdg-mime:722325fba8968a26eb243642cbe89a044d6dfd6c
```

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== NAME OF DEPENDENCY 10
== chromium/src/base/third_party/xdg_user_dirs
xdg-user-dirs
xdg-user-dirs:0.10

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== NAME OF DEPENDENCY 11
== chromium/src/chrome/installer/mac/third_party/bsdifff
BSDiff
BSDiff:4.3

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== NAME OF DEPENDENCY 12

== chromium/src/chrome/installer/mac/third_party/xz

XZ Utils

XZ Utils:5.0.5 (git tag v5.0.5,
albfda3214ed4a39a28fe609364be133c9f0f200,

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```
== NAME OF DEPENDENCY 13
== chromium/src/chrome/third_party/mozilla_security_manager
Mozilla Personal Security Manager
Mozilla Personal Security Manager:36838:a59a5f030021
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== chromium/src/courgette/third_party/divsufsort
divsufsort
divsufsort:2016-06-01

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== NAME OF DEPENDENCY 15
== chromium/src/ios/third_party/blink
blink HTMLTokenizer
blink:commit 2e924d852a814dee5efde8deb412a70a4d90c5c7

```

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== NAME OF DEPENDENCY 16
== chromium/src/ios/third_party/material_components_ios
Material Components for iOS
Material Components for iOS:2a20a6899d0b8c47de26d6a33a12ece09821718a

```

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== NAME OF DEPENDENCY 17
== chromium/src/ios/third_party/material_font_disk_loader_ios
Material Font Disk Loader iOS
Material Font Disk Loader iOS:8e30188777b016182658fbaa0a4a020a48183224

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== NAME OF DEPENDENCY 18
== chromium/src/ios/third_party/material_internationalization_ios
Material Internationalization for iOS
Material Internationalization for
iOS:d8f32464ac97d5551c8db19de916170ae87cfa90

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== NAME OF DEPENDENCY 19
== chromium/src/ios/third_party/material_roboto_font_loader_ios
Material Roboto Font Loader iOS
Material Roboto Font Loader
iOS:bc63eabbbd1e14cee0779b05827e08db2e413553

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== NAME OF DEPENDENCY 20
== chromium/src/ios/third_party/material_sprited_animation_view_ios
Material Sprited Animation View
Material Sprited Animation
View:8af9adaa182044cf2920dfb620b863669e1aeb7c

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== NAME OF DEPENDENCY 21
== chromium/src/ios/third_party/material_text_accessibility_ios
Material Text Accessibility iOS
Material Text Accessibility
iOS:499b45d1895b565096302a209c0c728df03b95d4

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== NAME OF DEPENDENCY 22
== chromium/src/ios/third_party/motion_animator_objc
Motion Animator for Objective-C
Motion Animator for Objective-C
C:0581bc3dfacd34e40381e9cf45a15070b3868ba7

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== NAME OF DEPENDENCY 23
== chromium/src/ios/third_party/motion_interchange_objc
Motion Interchange for Objective-C
Motion Interchange for Objective-
C:8e25f1ca599543dc77e4016b588763dcba6cbac8

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== NAME OF DEPENDENCY 24
== chromium/src/ios/third_party/motion_transitioning_objc
Motion Transitioning for Objective-C
Motion Transitioning for Objective-
C:8f360fc6f016af373276f858796a5e9f73498af9

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== NAME OF DEPENDENCY 25
== chromium/src/ios/third_party/native_closure_compiler
Closure compiler NPM
closure-compiler-npm:20210505.0.0

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== NAME OF DEPENDENCY 26

== chromium/src/net/third_party/mozilla_win

Mozilla Windows Cert code

Mozilla Windows Cert code:0fec57c05d3996cc00c55a66f20dd5793a9bfb5d

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```
== NAME OF DEPENDENCY 27
== chromium/src/net/third_party/nss
Network Security Services (NSS)
Network Security Services (NSS):3.23 RTM
```

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== NAME OF DEPENDENCY 28
== chromium/src/net/third_party/quiche
QUICHE
QUICHE:4896

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== NAME OF DEPENDENCY 29
== chromium/src/net/third_party/uri_template
URI Template Parser
uri_template:d0bbe169d81a50936ec5fcea4e6dbcfb97303f13

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== NAME OF DEPENDENCY 30
== chromium/src/third_party/abseil-cpp

Abseil

absl:c2ef7033380a3d8661fee76465097422170fb653

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== NAME OF DEPENDENCY 31
== chromium/src/third_party/accessibility-audit
Accessibility Audit library, from Accessibility Developer Tools
accessibility-audit:404ede0f2186682fbbef624141e76ec2b601317d

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== NAME OF DEPENDENCY 32
== chromium/src/third_party/afl
American Fuzzy Lop
AFL:2.52b

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== chromium/src/third_party/apple_apsl
Darwin
Darwin:unknown

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== NAME OF DEPENDENCY 34
== chromium/src/third_party/ashmem
Android
Android:7203eb2a8a29a7b721a48cd291700f38f3da1456

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== NAME OF DEPENDENCY 35
== chromium/src/third_party/axe-core
AXE-CORE Accessibility Audit
axe-core:3.3.2

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Blanket JS
Blanket:1.1.5

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BoringSSL
BoringSSL:4896

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== NAME OF DEPENDENCY 38
== chromium/src/third_party/boringssl/src/third_party/ fiat
Fiat-Crypto: Synthesizing Correct-by-Construction Code for
Cryptographic Primitives

fiat-crypto:0884b6d374a9d937c44bf024fe3a647ffae2c540

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== NAME OF DEPENDENCY 39

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Breakpad, An open-source multi-platform crash reporting system

breakpad:4896

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Brotli
Brotli:e61745a6b7add50d380cfd7d3883dd6c62fc2c71

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bspatch
bspatch:0

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cast_core/public:21e7e00e13122d83507449578c6bfe356d7eb266

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third_party/protobuf

Protobuf

Protobuf:3.0.0

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```
== NAME OF DEPENDENCY 44
== chromium/src/third_party/catapult/experimental/trace_on_tap/
third_party/pako
pako - zlib port to javascript, very fast!
pako:1.0.3
```

```
== Copyright Notices
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```

```
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(The MIT License)
```

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

```
== NAME OF DEPENDENCY 45
== chromium/src/third_party/catapult/third_party/apiclient
apiclient
apiclient:1.4.0
```

```
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Dependent Modules

=====

This code has the following dependencies above and beyond the Python standard library:

```
writemplates - Apache License 2.0
httplib2 - MIT License
```

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

```
== NAME OF DEPENDENCY 46
== chromium/src/third_party/catapult/third_party/beautifulsoup4
BeautifulSoup
bs4:4.3.2
```

```
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```

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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 47

== chromium/src/third_party/catapult/third_party/cachetools
cachetools
cachetools:3.1.1

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

```
== NAME OF DEPENDENCY 48
== chromium/src/third_party/catapult/third_party/certifi
certifi
certifi:2019.3.9

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Issuer: CN=OISTE WISeKey Global Root GA CA O=WISeKey OU=Copyright (c)
2005/OISTE Foundation Endorsed
Subject: CN=OISTE WISeKey Global Root GA CA O=WISeKey OU=Copyright (c)
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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:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/
certdata.txt?raw=1#
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 SSLCACertificateFile.#

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one at http://mozilla.org/MPL/2.0/.

***** END LICENSE BLOCK *****
@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03
15:11:58 $

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

== NAME OF DEPENDENCY 49
== chromium/src/third_party/catapult/third_party/chardet
pyasn1
```

pyasn1:0.4.5

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Ty Coon, President of Vice

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

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Google Cloud Storage Client Library
cloudstorage:0.7

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

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== chromium/src/third_party/catapult/third_party/coverage
coverage.py
coverage:4.0.3

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

```
== NAME OF DEPENDENCY 52
== chromium/src/third_party/catapult/third_party/depot_tools/
depot_tools/third_party/schema
schema
schema:0.6.6

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```

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== NAME OF DEPENDENCY 53

== chromium/src/third_party/catapult/third_party/flot

Flot

Flot:0.8.3

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== NAME OF DEPENDENCY 54

== chromium/src/third_party/catapult/third_party/google-auth

google-auth

google-auth:1.6.3

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

== NAME OF DEPENDENCY 55

== chromium/src/third_party/catapult/third_party/google-endpoints

google-endpoints

google-endpoints:2.0.0

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== NAME OF DEPENDENCY 56

== chromium/src/third_party/catapult/third_party/graphy

Graphy

Graphy:1.0.0

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== NAME OF DEPENDENCY 57

== chromium/src/third_party/catapult/third_party/goutil

goutil

goutil:4.46

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== NAME OF DEPENDENCY 58

== chromium/src/third_party/catapult/third_party/html5lib-python

html5lib-python

html5lib:01b1ebb7ce0146b8082b1a7315431aac023eb046

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```

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```

```

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

```

```

== NAME OF DEPENDENCY 59
== chromium/src/third_party/catapult/third_party/httpplib2
httpplib2
cpe:/a:httpplib2_project:httpplib2:0.19.1

```

```

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```

```

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```

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```

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

```

```

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

```


idna:2.8

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

```
== NAME OF DEPENDENCY 61
== chromium/src/third_party/catapult/third_party/ijson
ijson
ijson:5c1a4b5e12fe6e7ce758faa15e20fbab682f14ee
```

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

```
== NAME OF DEPENDENCY 62
== chromium/src/third_party/catapult/third_party/jquery
jQuery
jQuery:2.1.4
```

```
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```

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

```
== NAME OF DEPENDENCY 63
== chromium/src/third_party/catapult/third_party/jszip
JSZip
JSZip:7bbcb3873db23f6d27550cddb6c4cc2bdeb32194
```

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== NAME OF DEPENDENCY 64
== chromium/src/third_party/catapult/third_party/mapreduce
Google App Engine MapReduce
mapreduce:1.9.22.0

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== NAME OF DEPENDENCY 65
== chromium/src/third_party/catapult/third_party/mock
mock
mock:1.0.1

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== NAME OF DEPENDENCY 66

== chromium/src/third_party/catapult/third_party/oauth2client
oauth2client
oauth2client:1.4.11

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== NAME OF DEPENDENCY 67

== chromium/src/third_party/catapult/third_party/Paste
Paste
Paste:2.0.2

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== NAME OF DEPENDENCY 68

== chromium/src/third_party/catapult/third_party/pipeline

Google App Engine Pipeline

pipeline:1.9.21.1

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== NAME OF DEPENDENCY 69

== chromium/src/third_party/catapult/third_party/polymer

Polymer

polymer:0.5.2-4

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== NAME OF DEPENDENCY 70

== chromium/src/third_party/catapult/third_party/pyasn1_modules

pyasn1_modules

pyasn1_modules:0.2.5

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== NAME OF DEPENDENCY 71
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== chromium/src/third_party/catapult/third_party/pyfakefs  
pyfakefs
```

```
pyfakefs:2.7
```

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```
== NAME OF DEPENDENCY 72
== chromium/src/third_party/catapult/third_party/pyparsing
pyparsing
pyparsing:2.4.7
```

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== NAME OF DEPENDENCY 73  
== chromium/src/third_party/catapult/third_party/python_gflags  
python-gflags  
python-gflags:2.0  
  
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----- (separator) -----  
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== NAME OF DEPENDENCY 74  
== chromium/src/third_party/catapult/third_party/redux  
Redux  
redux:3.7.2  
  
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== NAME OF DEPENDENCY 75  
== chromium/src/third_party/catapult/third_party/requests_toolbelt  
requests_toolbelt  
requests_toolbelt:0.9.1  
  
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== NAME OF DEPENDENCY 76

== chromium/src/third_party/catapult/third_party/rsa
rsa
rsa:4.0

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== NAME OF DEPENDENCY 77

== chromium/src/third_party/catapult/third_party/six
six
six:1.15.0

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== NAME OF DEPENDENCY 78

== chromium/src/third_party/catapult/third_party/tsmon_client
Timeseries Monitoring Client
Timeseries Monitoring Client:2018 October 12

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== NAME OF DEPENDENCY 79

== chromium/src/third_party/catapult/third_party/typ
typ
typ:0.11.0

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== NAME OF DEPENDENCY 80

== chromium/src/third_party/catapult/third_party/writemplate
writemplate
writemplate:0.6

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== NAME OF DEPENDENCY 81
== chromium/src/third_party/catapult/third_party/urllib3
urllib3
cpe:/a:python:urllib3:1.25.3

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Chrome d8 for executing javascript
d8:8.8.278.14 (linux),5.6.326.50 (win)

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assembler-ia32.cc, assembler-ia32.h, assembler-x64-inl.h,

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== NAME OF DEPENDENCY 83
== chromium/src/third_party/catapult/third_party/webapp2
webapp2
webapp2:2.5.2
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webapp2

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== NAME OF DEPENDENCY 84
== chromium/src/third_party/catapult/third_party/WebOb
WebOb
WebOb:1.5.0a0

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```
== NAME OF DEPENDENCY 85
== chromium/src/third_party/catapult/tracing/third_party/jpeg-js
jpeg-js
jpeg-js:0.3.5
```

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== NAME OF DEPENDENCY 86
== chromium/src/third_party/catapult/tracing/third_party/oboe
Oboe.js
oboe:2.1.3

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== NAME OF DEPENDENCY 87
== chromium/src/third_party/catapult/tracing/third_party/symbols
symbols module from Chromium
symbols module from Chromium:Mon Feb 24 19:23:59 2014 +0000

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== NAME OF DEPENDENCY 88
== chromium/src/third_party/ced
Compact Encoding Detection
ced:2f40a850bcc5d6f7c1bfa02dbf42ad19d8220dc0

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== NAME OF DEPENDENCY 89

== chromium/src/third_party/chromevox

ChromeVox

ChromeVox:1.31.4

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== NAME OF DEPENDENCY 90

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

Closure Library

Closure Library:5a4878ece3dd35230a21d745411ab0985cf99e15

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== NAME OF DEPENDENCY 91

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

Speech Rule Engine

Speech Rule Engine:2.3.0-beta

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== NAME OF DEPENDENCY 92
== chromium/src/third_party/cldr
Unicode Common Locale Data Repository
cldr:40.0

```

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```
== NAME OF DEPENDENCY 93
== chromium/src/third_party/cld_3
Compact Language Detector v3
cld_3:0
```

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== NAME OF DEPENDENCY 94

```
== chromium/src/third_party/closure_compiler
Closure compiler
closure-compiler:20210505.0.0
```

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```

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```
== NAME OF DEPENDENCY 95
== chromium/src/third_party/crashpad
Crashpad
crashpad:4112c11b773019cf7d923fb3b8b0d7c31ddfb320
```

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== NAME OF DEPENDENCY 96
== chromium/src/third_party/crc32c
CRC32C
crc32c:1.0.7.git-5998f8451548244de8cde7fab387a550e7c4497d
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== NAME OF DEPENDENCY 97
== chromium/src/third_party/d3
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d3
cpe:/a:d3.js_project:d3.js:5.16.0::~~~~node.js~~

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```

== NAME OF DEPENDENCY 98
== chromium/src/third_party/davld
davld is an AV1 decoder :)
davld:0.9.2-122-gcce2b05

```

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== NAME OF DEPENDENCY 99
== chromium/src/third_party/dawn
Dawn
dawn:4896

```

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== NAME OF DEPENDENCY 100

== chromium/src/third_party/decklink

Blackmagic DeckLink SDK - Mac

Blackmagic DeckLink SDK - Mac:10.7.0

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Extracted from mac/include/DeckLinkAPI.h:

```

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```

== NAME OF DEPENDENCY 101
== chromium/src/third_party/depot_tools/third_party/colorama
colorama
colorama:b71bec90d4770d4124ad95d70cc6a4c9289bbadf (0.4.1)

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```

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== NAME OF DEPENDENCY 102

== chromium/src/third_party/devtools-frontend

Devtools-Frontend

Devtools-Frontend:4896

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== NAME OF DEPENDENCY 103

== chromium/src/third_party/devtools-frontend/src/front_end/
third_party/acorn

Acorn, a tiny, fast JavaScript parser written in JavaScript.

acorn:8.6.0

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== NAME OF DEPENDENCY 104

== chromium/src/third_party/devtools-frontend/src/front_end/
third_party/acorn-loose

Acorn-loose

acorn-loose:8.2.1

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== NAME OF DEPENDENCY 105

== chromium/src/third_party/devtools-frontend/src/front_end/
third_party/codemirror

```
CodeMirror 5
CodeMirror:5.61.0
```

```
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```

```
== NAME OF DEPENDENCY 106
== chromium/src/third_party/devtools-frontend/src/front_end/
third_party/codemirror.next
```

```
CodeMirror 6
CodeMirror.next:0.19.0
```

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```

```
== NAME OF DEPENDENCY 107
== 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.
diff-match-patch:5.60.0
```

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```

```
== NAME OF DEPENDENCY 108
```

```
== chromium/src/third_party/devtools-frontend/src/front_end/  
third_party/i18n  
Lighthouse i18n.js  
i18n:15dad3944c2754a9e147fef9ef99934169e2ca08
```

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```
== NAME OF DEPENDENCY 109  
== chromium/src/third_party/devtools-frontend/src/front_end/  
third_party/intl-messageformat  
intl-messageformat  
intl-messageformat:9.8.0
```

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== NAME OF DEPENDENCY 110
== chromium/src/third_party/devtools-frontend/src/front_end/
third_party/lighthouse
Lighthouse
lighthouse:0

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== NAME OF DEPENDENCY 111
== chromium/src/third_party/devtools-frontend/src/front_end/
third_party/lit-html
Lit-HTML
lit-html:2.0.2

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== NAME OF DEPENDENCY 112

== chromium/src/third_party/devtools-frontend/src/front_end/
third_party/lodash-isequal

lodash.isequal

lodash.isequal:4.5.0

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```
== NAME OF DEPENDENCY 113
== chromium/src/third_party/devtools-frontend/src/front_end/
third_party/marked
Marked
marked:4.0.4
```

```
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== NAME OF DEPENDENCY 114

== chromium/src/third_party/devtools-frontend/src/front_end/
third_party/puppeteer

Puppeteer

Puppeteer:13.1.1

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```
== NAME OF DEPENDENCY 115
== chromium/src/third_party/devtools-frontend/src/front_end/
third_party/wasmparser
Wasmparser
wasmparser:5.4.0
```



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```
== NAME OF DEPENDENCY 116
== chromium/src/third_party/devtools-frontend/src/third_party/
pyjson5
pyjson5
pyjson5:0.6.1
```

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== chromium/src/third_party/devtools-frontend/src/third_party/
typescript
TypeScript
typescript:0.1
```

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== NAME OF DEPENDENCY 118
== chromium/src/third_party/distributed_point_functions
The Incremental Distributed Point Functions library
distributed_point_functions:54c2044a71923717b5ee9dcf095bae2d4d407eb2

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== NAME OF DEPENDENCY 119
== chromium/src/third_party/dom_distiller_js
dom-distiller-js
dom-distiller-js:36c7178512

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src/de

third_party/gwt_exporter

third_party/gwt-2.5.1

java/org/chromium/distiller/dev

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Version 2.0, January 2004

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```
== NAME OF DEPENDENCY 120
== chromium/src/third_party/eigen3
```

Eigen

eigen3:7db0ac977acf276fb0817cfb89e490cdbae0ab56

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== NAME OF DEPENDENCY 121

== chromium/src/third_party/emoji-metadata

emoji-metadata

emoji-metadata:9d8e5cfe52ee763b7dd91e33e5a50250efbf7135

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== NAME OF DEPENDENCY 122

== chromium/src/third_party/emoji-segmenter

Emoji Segmenter

emoji-segmenter:0.1.0

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== NAME OF DEPENDENCY 123

== chromium/src/third_party/expat

Expat XML Parser

cpe:/a:libexpat:expat:2.4.5

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== chromium/src/third_party/farmhash

FarmHash

farmhash:1.1

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== NAME OF DEPENDENCY 125

== chromium/src/third_party/fdlibm

V8 fork of fdlibm

V8 fork of fdlibm:c512d6173f33c6b8301d3fba9384edc9fc1f9e45

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== NAME OF DEPENDENCY 126


```
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ffmpeg
ffmpeg:06a54a4ec73ea6eb8cec41b7af75367bafb075e0

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version 2 or later (GPL v2+). See the file `COPYING.GPLv2` for details.
None of
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 the configure parameter `--enable-version3` will activate this licensing option 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 incompatible, pass

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

unredistributable.

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

incompatible with the GPLv2 and v3. To the best of our knowledge, they are

compatible with the LGPL.

libavcodec/arm/jrevdct_arm.S

C-like prototype :

```
void j_rev_dct_arm(DCTBLOCK data)
```

With DCTBLOCK being a pointer to an array of 64 'signed shorts'

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libavcodec/arm/vp8dsp_armv6.S

VP8 ARMv6 optimisations

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libavcodec/x86/xvididct.asm

XVID MPEG-4 VIDEO CODEC

Conversion from gcc syntax to x264asm syntax with modifications
by Christophe Gisquet <christophe.gisquet@gmail.com>

===== SSE2 inverse discrete cosine transform =====

Conversion to gcc syntax with modifications
by Alexander Strange <astrange@ithinksw.com>

Originally from dct/x86_asm/fdct_sse2_skal.asm in Xvid.

Vertical pass is an implementation of the scheme:
Loeffler C., Ligtenberg A., and Moschytz C.S.:
Practical Fast 1D DCT Algorithm with Eleven Multiplications,
Proc. ICASSP 1989, 988-991.

Horizontal pass is a double 4x4 vector/matrix multiplication,
(see also Intel's Application Note 922:
<http://developer.intel.com/vtune/cbts/strmsimd/922down.htm>

More details at <http://skal.planet-d.net/coding/dct.html>

===== MMX and XMM forward discrete cosine transform =====

Originally provided by Intel at AP-922
<http://developer.intel.com/vtune/cbts/strmsimd/922down.htm>
(See more app notes at <http://developer.intel.com/vtune/cbts/strmsimd/appnotes.htm>)
but in a limited edition.
New macro implements a column part for precise iDCT
The routine precision now satisfies IEEE standard 1180-1990.

Rounding trick Copyright(C) 2000 Michel Lespinasse <walken@zoy.org>

<http://www.elecard.com/peter/idct.html>
<http://www.linuxvideo.org/mpeg2dec/>

These examples contain code fragments for first stage iDCT 8x8
(for rows) and first stage DCT 8x8 (for columns)

conversion to gcc syntax by Michael Niedermayer

=====

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libavformat/oggparsetheora.c

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libavutil/avsscanf.c

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libavutil/x86/x86inc.asm

x86inc.asm: x264asm abstraction layer

Authors: Loren Merritt <lorenm@u.washington.edu>
Henrik Gramner <henrik@gramner.com>
Anton Mitrofanov <BugMaster@narod.ru>
Fiona Glaser <fiona@x264.com>

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libswresample/swresample.h

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libswresample/version.h

Version macros.

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libavcodec/jfdctfst.c
libavcodec/jfdctint_template.c
libavcodec/jrevdct.c

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

== NAME OF DEPENDENCY 127
== chromium/src/third_party/fft2d
2-dim General Purpose FFT (Fast Fourier/Cosine/Sine Transform) Package
fft2d:2006/12/28

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== NAME OF DEPENDENCY 128
== chromium/src/third_party/flac
flac
flac:1.3.1

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

== NAME OF DEPENDENCY 129
== chromium/src/third_party/flatbuffers
FlatBuffers
flatbuffers:b8aaccee8248059b2af032cca0eb1d2ddb6cdc

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

== NAME OF DEPENDENCY 130
== chromium/src/third_party/flex
flex
flex:v2.6.4

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

```
== NAME OF DEPENDENCY 131
== chromium/src/third_party/fontconfig
fontconfig
cpe:/a:fontconfig_project:fontconfig:2.13.91
```

```
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```

```
== License
fontconfig/COPYING
```

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

== NAME OF DEPENDENCY 132
== chromium/src/third_party/fp16
FP16
fp16:4dfe081cf6bcd15db339cf2680b9281b8451eeb3

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== chromium/src/third_party/freetype
FreeType
cpe:/a:freetype:freetype:2.11.1

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2006-Jan-27

David Turner, Robert Wilhelm, and Werner Lemberg

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== NAME OF DEPENDENCY 134
== chromium/src/third_party/fusejs
Fuse.js
Fuse.js:6.4.1

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== NAME OF DEPENDENCY 135
== chromium/src/third_party/gemmlowp
gemmlowp
gemmlowp:13d57703abca3005d97b19df1f2db731607a7dc2

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```

```
== NAME OF DEPENDENCY 136
== chromium/src/third_party/gif_player
GifPlayer Animated GIF Library
GifPlayer:r8
```

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```
== NAME OF DEPENDENCY 137
== chromium/src/third_party/glide/gif_encoder
Android GIF Encoder
Android GIF Encoder:a7b254c42888db691b7339b2165abcd462473fcf
```

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```

```
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```

```
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```

NEUQUANT Neural-Net quantization algorithm by Anthony Dekker, 1994.
See

"Kohonen neural networks for optimal colour quantization" in "Network:
Computation in Neural Systems" Vol. 5 (1994) pp 351-367. for a
discussion of
the algorithm.

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== NAME OF DEPENDENCY 138
== chromium/src/third_party/google-closure-library
Google Closure Library
cpe:/a:google:closure_library:20191111

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== NAME OF DEPENDENCY 139
== chromium/src/third_party/google_input_tools
Google Input Tools
google_input_tools:1.0.4.6

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== NAME OF DEPENDENCY 140
== chromium/src/third_party/google_toolbox_for_mac
Google Toolbox for Mac
google-toolbox-for-mac:626

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== NAME OF DEPENDENCY 141
== chromium/src/third_party/google_trust_services
Google Trust Services Recommended Roots
Google Trust Services Recommended Roots:2019-04-22

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== NAME OF DEPENDENCY 142
== chromium/src/third_party/grpc
grpc
grpc:v1.43.0+

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```
== NAME OF DEPENDENCY 143
== chromium/src/third_party/harfbuzz-ng
harfbuzz-ng
cpe:/a:harfbuzz_project:harfbuzz:3.2.0
```

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```
== NAME OF DEPENDENCY 144
== chromium/src/third_party/highway
Highway: C++ library for SIMD
highway:0.12.2
```

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```
== NAME OF DEPENDENCY 145
== chromium/src/third_party/hunspell
hunspell
cpe:/a:hunspell_project:hunspell:1.6.0
```

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

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Version 1.1

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

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== NAME OF DEPENDENCY 147
== chromium/src/third_party/hunspell_dictionaries/af_ZA
An Afrikaans spellchecking dictionary
An Afrikaans spellchecking dictionary:1.0
```

```
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3. Installation and Setup
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The Nieuwoudt list was first published in this form in 1993 by Bernard A Nieuwoudt. Contact details: origen at icon co za or bnieuwoudt at acm org

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MySpell Affix File

based on the original ispell list by Renier de Vos which was released under

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3. Installation and Setup

=====

Automated

Newer versions of OpenOffice.org have a built in macro to step you through an

automatic install process.

File -> Autopilot -> Install new dictionaries...

If this is unavailable then download 'Dic00o.sxw' from:

<http://ftp.services.openoffice.org/pub/OpenOffice.org/contrib/dictionaries/dicooo/DicOOo.sxw>

Run the macro and follow the steps outlined. If you would like the dictionary

to be available to all users then run the installation as the administrative or

root user. It is best to restart OpenOffice.org after the installation.

The macro operates in two modes:

1) Online - the latest dictionaries are retrieved from the OpenOffice.org website.

2) Offline - an offline dictionary pack, which you have already downloaded, is

installed from the hard-drive. Offline dictionaries can be downloaded from:

<http://lingucomponent.openoffice.org/dictpack.html>

OR

http://sourceforge.net/project/showfiles.php?group_id=91920&package_id=103504

For more detailed instructions see:

http://lingucomponent.openoffice.org/auto_instal.html

Non-automated

For instructions on how to install the Afrikaans dictionary manually please visit

the following URL:

http://lingucomponent.openoffice.org/manual_instal.html

Spellchecker Selection

Once the spellchecker is installed you need to configure a few settings and

perform some checks.

1) Check that the Afrikaans Spellchecker is enabled.

Tools -> Options -> Language Settings -> Writing Aids

In the section marked 'Available language modules' select 'Edit...'.
Under

the languages drop-down select Afrikaans and ensure that the
'OpenOffice.org
MySpell SpellChecker' is enabled.

2) Set your default document language to Afrikaans

If most of your writing is in Afrikaans then this step will ensure that
documents you compose from now on are treated as Afrikaans documents.
If much
of your writing is in English you might want to skip this step.

Tools -> Options -> Language Settings -> Languages

In the section marked 'Default languages for documents' is a drop-down
labelled

'Western'. Afrikaans has a tick next to it to indicate that a
spellchecker is
installed. Set your default language to Afrikaans.

3) Changing existing documents or paragraphs to Afrikaans

Some old document might be written in Afrikaans but the document was
stored

indicating that the text was in English. You can indicate that this is
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----- (separator) -----

```
== NAME OF DEPENDENCY 148
== chromium/src/third_party/hunspell_dictionaries/fo_FO
A Faroese spellchecking dictionary
A Faroese spellchecking dictionary:1.0
```

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SP/F Teldni

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

== NAME OF DEPENDENCY 149

== chromium/src/third_party/hyphenation-patterns

hyphenation-patterns

hyphenation-patterns:061d892d99db8594ab858ada1b34ef9935b1c7af

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Stephan Hennig, Werner Lemberg, Guenter Milde, Sander van Geloven,
Georg Pfeiffer, Gisbert W. Selke, Tobias Wendorf

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iccjpeg:0
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----- (separator) -----

```
== NAME OF DEPENDENCY 153
== chromium/src/third_party/inspector_protocol
inspector_protocol
inspector_protocol:201d4b51ed2ab22839939236aa909c6d7c0f5147
```

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```
== NAME OF DEPENDENCY 154
== chromium/src/third_party/jinja2
Jinja2 Python Template Engine
cpe:/a:pocoo:jinja2:2.11.3
```

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```
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== chromium/src/third_party/jsoncpp
jsoncpp
cpe:/a:jsoncpp_project:jsoncpp:1.9.4
```

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== chromium/src/third_party/jstemplate
google-jstemplate
google-jstemplate:4896

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== chromium/src/third_party/khronos
Khronos header files
khronos_headers:2018-07-25

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== NAME OF DEPENDENCY 158

```
== chromium/src/third_party/leveldatabase
LevelDB: A Fast Persistent Key-Value Store
leveldb:1.23
```

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```

```
== NAME OF DEPENDENCY 159
== chromium/src/third_party/libaddressinput
libaddressinput
libaddressinput:81e7ead903f5b71a326e0584f4325f106c804df1
```

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```
== NAME OF DEPENDENCY 160
== chromium/src/third_party/libaom
Alliance for Open Media Video Codec
cpe:/a:aomedia:aomedia:3.1.2
```

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== NAME OF DEPENDENCY 161

== chromium/src/third_party/libavif

libavif - Library for encoding and decoding .avif files

avif:0.9.3

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cpe:/a:mielke:brlty:3.7.2
```

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

== NAME OF DEPENDENCY 163
== chromium/src/third_party/libFuzzer
libFuzzer
libFuzzer:0

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

== NAME OF DEPENDENCY 164
== chromium/src/third_party/libgavl
libgavl
libgavl:Friday October 29 2021

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

```
== NAME OF DEPENDENCY 165
== chromium/src/third_party/libgifcodec
libgif codec for Skia
libgifcodec:4896
```

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

```
== NAME OF DEPENDENCY 166
== chromium/src/third_party/libipp
libipp
libipp:6c45a4f3a05cb5dd700414fe4d94cf685159d3ce
```

```
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```

```
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```

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

```
== NAME OF DEPENDENCY 167
== chromium/src/third_party/libjingle_xmpp
libjingle XMPP and xmllite libraries
libjingle XMPP and xmllite
libraries:5493b8a59deb16cf0481e24707a0ed72d19047dc
```

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

```
== NAME OF DEPENDENCY 168
== chromium/src/third_party/libjpeg_turbo
libjpeg-turbo
libjpeg-turbo:2.1.2
```

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

```
== NAME OF DEPENDENCY 169
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JPEG XL image decoder library
cpe:/a:libjxl_project:libjxl:0.6.1
```

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

```
== NAME OF DEPENDENCY 170
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Braille Translation Library
cpe:/a:liblouis:liblouis:3.12.0
```

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

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

== NAME OF DEPENDENCY 171
== chromium/src/third_party/libphonenumber
International Phone Number Library
libphonenumber:68eba9d6ee8b11fb58ece36b6c46d07965d7f7ff

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

== NAME OF DEPENDENCY 172
== chromium/src/third_party/libpng
libpng
cpe:/a:libpng:libpng:1.6.37

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-

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

```
== NAME OF DEPENDENCY 173
== chromium/src/third_party/libprotobuf-mutator
libprotobuf-mutator
libprotobuf-mutator:1.0
```

```
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```

```

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```

```

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

```

```

== NAME OF DEPENDENCY 174
== chromium/src/third_party/libsecret
libsecret
libsecret:0.18

```

```

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```
== NAME OF DEPENDENCY 175
== chromium/src/third_party/libsrtp
libsrtp
libsrtp:94ac00d5ac6409e3f6409e4a5edfcdbdaa7fdabe
```

```
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```

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```
*/
```

```
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-----
```

```
== NAME OF DEPENDENCY 176
```

```
== chromium/src/third_party/libsync
```

```
Android Explicit Synchronization
```

```
Android Explicit
```

```
Synchronization:f4f4387b6bf2387efbcfd1453af4892e8982faf6
```

```
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== NAME OF DEPENDENCY 177
== chromium/src/third_party/liburlpattern
URL Pattern Library
liburlpattern:4896

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== chromium/src/third_party/libusb
libusbx
cpe:/a:libusb:libusb:1.0.17:rc1

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== chromium/src/third_party/libva_protected_content
Protected Content Interface for libva
libva_protected_content:2.9.0

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== NAME OF DEPENDENCY 180

== chromium/src/third_party/libvpx
libvpx
cpe:/a:webmproject:libvpx:1.10.0

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== NAME OF DEPENDENCY 181
 == chromium/src/third_party/libwebm
 WebM container parser and writer.
 cpe:/a:webmproject:libwebm:1.0.0.28

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== NAME OF DEPENDENCY 182
 == chromium/src/third_party/libwebp
 WebP image encoder/decoder
 cpe:/a:webmproject:libwebp:1.2.2

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```
== NAME OF DEPENDENCY 183
== chromium/src/third_party/libx11
libx11
libx11:9f9c5365816bdd036fd80d54b22e86764ea4b7a7
```

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```
== NAME OF DEPENDENCY 184
== chromium/src/third_party/libxcb-keysyms
libxcb-keysyms
libxcb-keysyms:691515491a4a3c119adc6c769c29de264b3f3806
```

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== NAME OF DEPENDENCY 185
== chromium/src/third_party/libxml
libxml
cpe:/a:xmlsoft:libxml2:2.9.12
```

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== NAME OF DEPENDENCY 186
== chromium/src/third_party/libXNVctrl
Nvidia Control X Extension Library
libXNVctrl:2008

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== NAME OF DEPENDENCY 187
== chromium/src/third_party/libxslt
libxslt
cpe:/a:xmlsoft:libxslt:1.1.34

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== NAME OF DEPENDENCY 188
== chromium/src/third_party/libyuv
libyuv
libyuv:1811
```

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```
== NAME OF DEPENDENCY 189
== chromium/src/third_party/libzip
libzip
cpe:/a:nih:libzip:1.7.3
```

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 == chromium/src/third_party/lottie
 Lottie Web
 lottie-web:v5.5.2

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#####  
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#####  
#####
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```
#####  
#####
```

BezierEasing - use bezier curve for transition easing function
by Gaëtan Renaudeau 2014 - 2015 - 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

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

== NAME OF DEPENDENCY 191
== chromium/src/third_party/lzma_sdk
LZMA SDK
lzma:19.00

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define MY_COPYRIGHT_CR "Copyright (c) 1999-2018 Igor Pavlov"

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== NAME OF DEPENDENCY 192
== chromium/src/third_party/maldoca
MalDocA source for extracting and analyzing features from Office
documents.
maldoca:3d2b660fe61f97ec4bf9ae6f561b4e016b75db79

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== NAME OF DEPENDENCY 193
== chromium/src/third_party/material_design_icons
Material Design Icons
Material Design Icons:a6145e167b4a3a65640dd6279319cbc77a7e4e96

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```

== NAME OF DEPENDENCY 194
== chromium/src/third_party/material_web_components
Material Web Components
mwc:0.20.0

```

```

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== NAME OF DEPENDENCY 195
== chromium/src/third_party/mesa_headers
mesa_headers
cpe:/a:mesa3d:mesa:9.0.3

```

```

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== NAME OF DEPENDENCY 196
== chromium/src/third_party/metrics_proto
Metrics Protos
metrics_proto:427612884
```

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== NAME OF DEPENDENCY 197
== chromium/src/third_party/microsoft_webauthn
Headers for the Windows 10 WebAuthn API (webauthn.dll)
Windows webauthn.h:8488eed5dc3ab4f166efec8d416aa6c5319e251a
```

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== chromium/src/third_party/minigbm

minigbm

minigbm:0

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== NAME OF DEPENDENCY 199

== chromium/src/third_party/minizip

nmoinvaz/minizip

cpe:/a:minizip_project:minizip:2.8.1

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== chromium/src/third_party/modp_b64
modp base64 decoder
stringencoders:0
```

```
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```

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== License
MODP_B64 - High performance base64 encoder/decoder
Version 1.3 -- 17-Mar-2006
http://modp.com/release/base64
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Cocoa extension code from Camino
camino:4896

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Netwide Assembler
cpe:/a:nasm:netwide_assembler:2.15.03rc6
```

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== NAME OF DEPENDENCY 203
 == chromium/src/third_party/nearby
 Nearby Connections Library
 Nearby:ae0337db3bac9b104a2b585be7312615bcc66262

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 == chromium/src/third_party/neon_2_sse
 ARM_NEON_2_x86_SSE
 neon_2_sse:8dbe2461c89760ac4b204aa0eafb72413a97957d

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created by Victoria Zhislina, the Senior Application Engineer, Intel Corporation, victoria.zhislina@intel.com

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== NAME OF DEPENDENCY 205

== chromium/src/third_party/one_euro_filter

One Euro Filter

1€ filter:0

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```
== NAME OF DEPENDENCY 206
== chromium/src/third_party/opencv
OpenCV
cpe:/a:opencv:opencv:4.3.0
```

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== NAME OF DEPENDENCY 207
== chromium/src/third_party/openh264
OpenH264
cpe:/a:cisco:openh264:2.1.1

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== NAME OF DEPENDENCY 208
== chromium/src/third_party/openscreen
Open Screen Protocol Library
openscreen:9499a256bc609e9efdf15a268fd047127870af41

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== NAME OF DEPENDENCY 209

== chromium/src/third_party/openscreen/src/third_party/chromium_quic
Chromium QUIC
chromium_quic:9499a256bc609e9efdf15a268fd047127870af41

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== NAME OF DEPENDENCY 210

== chromium/src/third_party/openscreen/src/third_party/mozilla
url_parse
url_parse:0

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== chromium/src/third_party/openscreen/src/third_party/tinycbor
Tiny CBOR
tinycbor:0.5.4

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== chromium/src/third_party/openscreen/src/third_party/valijson
Valijson
valijson:0

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```
== NAME OF DEPENDENCY 213
== chromium/src/third_party/openscreen/src/third_party/zlib
zlib
zlib:IGNOREBlackmagic DeckLink SDK - Mac
```

```
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```

```
== License
zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017
```

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

*/

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```
== NAME OF DEPENDENCY 214
== chromium/src/third_party/openxr
OpenXR SDK
OpenXR:1.0.17sd
```

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```

```
== NAME OF DEPENDENCY 215
== chromium/src/third_party/opus
opus
opus:a8e6a77c
```

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== NAME OF DEPENDENCY 216
== chromium/src/third_party/ots
OTS (OpenType Sanitizer)
OTS (OpenType Sanitizer):ee537ac096667eed6559124164c3e8482646fd77

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Perfetto
Perfetto:unknown

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PFFFT: a pretty fast FFT.
PFFFT:483453d8f766

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```
== NAME OF DEPENDENCY 219
== chromium/src/third_party/ply
PLY (Python Lex-Yacc)
PLY (Python Lex-Yacc):3.11
```

```
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```
== License
PLY (Python Lex-Yacc)                               Version 3.4
```

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```
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```

```
== NAME OF DEPENDENCY 220
== chromium/src/third_party/private-join-and-compute
Private Join and Compute subset
private-join-and-compute:375be83109e10b32441483dbd0f1ac493488d197
```

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```
== NAME OF DEPENDENCY 221
== chromium/src/third_party/private_membership
PSM (Private Set Membership) client side
PSM (Private Set Membership) client side:325344392
```

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```
== NAME OF DEPENDENCY 222
== chromium/src/third_party/pywebsocket3
pywebsocket3
pywebsocket3:0
```

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```
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```

```
== NAME OF DEPENDENCY 223
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Quick Color Management System
qcms:v4
```

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qcms
```

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```

```
== NAME OF DEPENDENCY 224
```

```
== chromium/src/third_party/re2
```

```
re2 - an efficient, principled regular expression library
```

```
re2:ab12219ba56a47200385673446b5d371548c25db
```

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```
== NAME OF DEPENDENCY 225
```

```
== chromium/src/third_party/rjsmin
```

```
rjsmin
rjsmin:1.0.12
```

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```

```
== NAME OF DEPENDENCY 226
== chromium/src/third_party/rnnoise
Recurrent neural network for audio noise reduction
rnnoise:91ef401
```

```
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```

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```

```
== NAME OF DEPENDENCY 227
== chromium/src/third_party/rust/aho_corasick/v0_7
aho-corasick
aho-corasick:0.7.18
```

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== NAME OF DEPENDENCY 228
== chromium/src/third_party/rust/ansi_term/v0_11
ansi_term
ansi_term:0.11.0

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== NAME OF DEPENDENCY 229
== chromium/src/third_party/rust/atty/v0_2
atty
atty:0.2.14

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== NAME OF DEPENDENCY 230
== chromium/src/third_party/rust/bindgen/v0_59
bindgen
bindgen:0.59.2

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== NAME OF DEPENDENCY 231
== chromium/src/third_party/rust/bitflags/v1
bitflags
bitflags:1.3.2
```

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```
== NAME OF DEPENDENCY 232
== chromium/src/third_party/rust/cexpr/v0_6
cexpr
cexpr:0.6.0
```

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```
== NAME OF DEPENDENCY 233
== chromium/src/third_party/rust/cfg_if/v1
cfg-if
cfg-if:1.0.0
```

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== NAME OF DEPENDENCY 234
```

```
== chromium/src/third_party/rust/clang_sys/v1
clang-sys
clang-sys:1.3.0
```

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```

```
== NAME OF DEPENDENCY 235
== chromium/src/third_party/rust/clap/v2
clap
clap:2.33.3
```

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== NAME OF DEPENDENCY 236
== chromium/src/third_party/rust/codespan_reporting/v0_11
codespan-reporting
codespan-reporting:0.11.1
```

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```
== NAME OF DEPENDENCY 237
== chromium/src/third_party/rust/cxx/v1
```

```
cxx
cxx:1.0.57
```

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```
== NAME OF DEPENDENCY 238
== chromium/src/third_party/rust/cxxbridge_cmd/v1
cxxbridge-cmd
cxxbridge-cmd:1.0.57
```

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```

```
== NAME OF DEPENDENCY 239
== chromium/src/third_party/rust/cxxbridge_macro/v1
cxxbridge-macro
cxxbridge-macro:1.0.57
```

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```
== NAME OF DEPENDENCY 240
== chromium/src/third_party/rust/either/v1
either
```

```
either:1.6.1
```

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```
== NAME OF DEPENDENCY 241
```

```
== chromium/src/third_party/rust/env_logger/v0_9
```

```
env_logger
```

```
env_logger:0.9.0
```

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```

```
== NAME OF DEPENDENCY 242
```

```
== chromium/src/third_party/rust/glob/v0_3
```

```
glob
```

```
glob:0.3.0
```

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== NAME OF DEPENDENCY 243
```

```
== chromium/src/third_party/rust/humantime/v2
```

```
humantime
```

```
humantime:2.1.0
```

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```
== NAME OF DEPENDENCY 244
== chromium/src/third_party/rust/itoa/v0_4
itoa
itoa:0.4.8
```

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== NAME OF DEPENDENCY 245
== chromium/src/third_party/rust/lazycell/v1
lazycell
lazycell:1.3.0
```

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== NAME OF DEPENDENCY 246
== chromium/src/third_party/rust/lazy_static/v1
lazy_static
lazy_static:1.4.0
```

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== NAME OF DEPENDENCY 247

== chromium/src/third_party/rust/libc/v0_2

libc

libc:0.2.105

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== NAME OF DEPENDENCY 248

== chromium/src/third_party/rust/libloading/v0_7

libloading

libloading:0.7.3

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== chromium/src/third_party/rust/link_cplusplus/v1
link-cplusplus
link-cplusplus:1.0.5

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== chromium/src/third_party/rust/log/v0_4
log
log:0.4.14

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== chromium/src/third_party/rust/memchr/v2
memchr
memchr:2.4.1

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== chromium/src/third_party/rust/minimal_lexical/v0_2
minimal-lexical
minimal-lexical:0.2.1

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== NAME OF DEPENDENCY 253
== chromium/src/third_party/rust/nom/v7
nom
nom:7.1.0

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== NAME OF DEPENDENCY 254
== chromium/src/third_party/rust/peeking_take_while/v0_1
peeking_take_while
peeking_take_while:0.1.2

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== NAME OF DEPENDENCY 255
== chromium/src/third_party/rust/proc_macro2/v1
proc-macro2
proc-macro2:1.0.32

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== NAME OF DEPENDENCY 256
== chromium/src/third_party/rust/quote/v1
quote
quote:1.0.10

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== NAME OF DEPENDENCY 257
== chromium/src/third_party/rust/regex/v1
regex
regex:1.5.4

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== NAME OF DEPENDENCY 258  
== chromium/src/third_party/rust/regex_syntax/v0_6  
regex-syntax  
regex-syntax:0.6.25  
  
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== NAME OF DEPENDENCY 259  
== chromium/src/third_party/rust/rustc_hash/v1  
rustc-hash  
rustc-hash:1.1.0  
  
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== NAME OF DEPENDENCY 260  
== chromium/src/third_party/rust/rustc_version/v0_4  
rustc_version  
rustc_version:0.4.0  
  
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```

```
== NAME OF DEPENDENCY 261
== chromium/src/third_party/rust/ryu/v1
ryu
ryu:1.0.5
```

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```

```
== NAME OF DEPENDENCY 262
== chromium/src/third_party/rust/semver/v1
semver
semver:1.0.4
```

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```

```
== NAME OF DEPENDENCY 263
== chromium/src/third_party/rust/serde/v1
serde
serde:1.0.130
```

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```

```
== NAME OF DEPENDENCY 264
== chromium/src/third_party/rust/serde_derive/v1
serde_derive
serde_derive:1.0.130

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```
== NAME OF DEPENDENCY 265
== chromium/src/third_party/rust/serde_jsonrc/v0_1
serde_jsonrc
serde_jsonrc:0.1.0

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```
== NAME OF DEPENDENCY 266
== chromium/src/third_party/rust/shlex/v1
shlex
shlex:1.1.0

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```

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```

```
== NAME OF DEPENDENCY 267
```

```
== chromium/src/third_party/rust/small_ctor/v0_1
small_ctor
small_ctor:0.1.0
```

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```
== NAME OF DEPENDENCY 268
== chromium/src/third_party/rust/strsim/v0_8
strsim
strsim:0.8.0
```

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```
== NAME OF DEPENDENCY 269
== chromium/src/third_party/rust/syn/v1
syn
syn:1.0.81
```

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```
== NAME OF DEPENDENCY 270
```

```
== chromium/src/third_party/rust/termcolor/v1
termcolor
termcolor:1.1.2
```

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```
== NAME OF DEPENDENCY 271
== chromium/src/third_party/rust/textwrap/v0_11
textwrap
textwrap:0.11.0
```

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```

```
== NAME OF DEPENDENCY 272
== chromium/src/third_party/rust/unicode_width/v0_1
unicode-width
unicode-width:0.1.9
```

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```

```
== NAME OF DEPENDENCY 273
== chromium/src/third_party/rust/unicode_xid/v0_2
```

```
unicode-xid
unicode-xid:0.2.2
```

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```

```
== NAME OF DEPENDENCY 274
== chromium/src/third_party/rust/vec_map/v0_8
vec_map
vec_map:0.8.2
```

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```

```
== NAME OF DEPENDENCY 275
== chromium/src/third_party/rust/version_check/v0_9
version_check
version_check:0.9.4
```

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```

```
== NAME OF DEPENDENCY 276
== chromium/src/third_party/rust/which/v4
which
```

which:4.2.4

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== NAME OF DEPENDENCY 277
== chromium/src/third_party/rust/winapi/v0_3
winapi
winapi:0.3.9

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== NAME OF DEPENDENCY 278
== chromium/src/third_party/rust/winapi_util/v0_1
winapi-util
winapi-util:0.1.5

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== NAME OF DEPENDENCY 279
== chromium/src/third_party/ryu
The ryu matrix multiplication library
ryu:2d950b3bfa7ebf7a97ecb44b1cc4da5ac1d6f0

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```

```
== NAME OF DEPENDENCY 280
== chromium/src/third_party/securemessage
Secure Message
Secure Message:fa07beb12bab3b25e0c5b1f38c16aa8cb6b8f84
```

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```

```
== NAME OF DEPENDENCY 281
== chromium/src/third_party/setupdesign
Setupdesign
setupdesign:unknown
```

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```

```
== NAME OF DEPENDENCY 282
== chromium/src/third_party/shaderc
Shaderc
shaderc:v2022.2-dev
```

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```

```
== NAME OF DEPENDENCY 283
== chromium/src/third_party/shell-encryption
Simple Homomorphic Encryption Library with Lattices
Simple Homomorphic Encryption Library with
Lattices:f94f58852e9b3edaf2766e348a69a70f596bb9dd
```

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```

```
== NAME OF DEPENDENCY 284
== chromium/src/third_party/simplejson
simplejson
cpe:/a:simplejson_project:simplejson:2.6.2::~~python~
```

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```

```
== NAME OF DEPENDENCY 285
== chromium/src/third_party/skia
Skia
Skia:unknown
```

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== NAME OF DEPENDENCY 286

== chromium/src/third_party/skia/third_party/skcms
skcms
skcms:30c8e303800c256febb03a09fdca7f75d119b1b

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== NAME OF DEPENDENCY 287
== chromium/src/third_party/smhasher
SMHasher
SMHasher:147

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== NAME OF DEPENDENCY 288
```

```
== chromium/src/third_party/snappy
Snappy: A fast compressor/decompressor
cpe:/a:google:snappy:1.1.7
```

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```
== NAME OF DEPENDENCY 289
== chromium/src/third_party/sqlite
sqlite
cpe:/a:sqlite:sqlite:3.37.1
```

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```
== NAME OF DEPENDENCY 290
== chromium/src/third_party/subresource-filter-ruleset
EasyList
```

EasyList:202111091709

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smslib:

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== NAME OF DEPENDENCY 292
== chromium/src/third_party/tensorflow-text
TensorFlow Text
tensorflow-text:2.7.3

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Text Fragments Polyfill
text-fragments-polyfill:0.0.7

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== NAME OF DEPENDENCY 294

```
== chromium/src/third_party/tflite
TensorFlow Lite
tflite:767b2cf99f1e27f9e61b672a48ddb2142bfd
```

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```

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```

```
== NAME OF DEPENDENCY 295
== chromium/src/third_party/tflite_support
TensorFlow Lite Support
tflite-support:27decd8a9f30004d01b1cd5f40f27e7b1be20fa5
```

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```
== NAME OF DEPENDENCY 296
== chromium/src/third_party/ukey2
UKey2
Ukey2:0275885d8e6038c39b8a8ca55e75d1d4d1727f47
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```


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unrar:6.0.3

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ChromiumUpdater
ChromiumUpdater:Varies

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

```
== NAME OF DEPENDENCY 299
== chromium/src/third_party/usb_ids
The USB ID Repository
usb-ids:2015.06.09
```

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

```
== NAME OF DEPENDENCY 300
== chromium/src/third_party/usrctp
usrctp
cpe:/a:usrctp_project:usrctp:2019-12-20
```

```
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```

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== NAME OF DEPENDENCY 301

== chromium/src/third_party/utf

libutf

libutf:ee5074db68f498a5c802dc9f1645f396c219938a

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```
== NAME OF DEPENDENCY 302
== chromium/src/third_party/v4l-utils
v4l-utils
v4l-utils:1.6.0
```

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

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== chromium/src/third_party/vulkan-deps
Vulkan Deps
Vulkan Deps:4896

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== NAME OF DEPENDENCY 304
== chromium/src/third_party/vulkan-deps/glslang
Khronos reference front-end for GLSL and ESSL
glslang:90d4bd05cd77ef5782a6779a0fe3d084440dc80d

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== NAME OF DEPENDENCY 305
== chromium/src/third_party/vulkan-deps/spirv-cross
SPIRV-Cross
SPIRV-Cross:64e058aa9b0c7a0d1cbc645b4496ddf4cdbca00d

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== chromium/src/third_party/vulkan-deps/spirv-headers
SPIR-V Headers
spirv-headers:6a55fade62dec6a406a5a721148f88a2211cbefa

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== NAME OF DEPENDENCY 307

```
== chromium/src/third_party/vulkan-deps/spirv-tools
SPIR-V Tools
SPIRV-Tools:d18d0d92e55f44da6af0dc87fb0e3c8034e9a3ac
```

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

```
== NAME OF DEPENDENCY 308
== chromium/src/third_party/vulkan-deps/vulkan-headers
Vulkan API headers
Vulkan:1.2.140
```

```
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-----
```

```
== NAME OF DEPENDENCY 309
== chromium/src/third_party/vulkan-deps/vulkan-loader
Vulkan Loader Components
Vulkan Loader:edb793cf31480ae71f7462e8ae2bf13188143682
```

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

== NAME OF DEPENDENCY 310
== chromium/src/third_party/vulkan-deps/vulkan-tools
Khronos Vulkan Tools Components
Vulkan Tools:d18d0d92e55f44da6af0dc87fb0e3c8034e9a3ac

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== NAME OF DEPENDENCY 311
== chromium/src/third_party/vulkan-deps/vulkan-validation-layers
Khronos Vulkan Validation Layers Components
Vulkan Validation Layers:d18d0d92e55f44da6af0dc87fb0e3c8034e9a3ac

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== NAME OF DEPENDENCY 312
== chromium/src/third_party/vulkan_memory_allocator
VulkanMemoryAllocator
VulkanMemoryAllocator:309fa0e613c6db0231df03d0d7ac0c166dbee1d1

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== NAME OF DEPENDENCY 313
== chromium/src/third_party/wayland
wayland
cpe:/a:wayland:wayland:1.18.0

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== chromium/src/third_party/wayland-protocols
wayland-protocols
wayland-protocols:1.21

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== chromium/src/third_party/web-animations-js
Web Animations JS
web-animations-js:2.1.0

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== chromium/src/third_party/webrtc
WebRTC
cpe:/a:webrtc_project:webrtc:90

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== NAME OF DEPENDENCY 317
== chromium/src/third_party/webrtc/common_audio/third_party/ooura
General Purpose FFT (Fast Fourier/Cosine/Sine Transform) Package
fft4g:2018-06-19

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/*
<http://www.kurims.kyoto-u.ac.jp/~ooura/fft.html>

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== NAME OF DEPENDENCY 318
== chromium/src/third_party/webrtc/common_audio/third_party/
spl_sqrt_floor
sql sqrt floor
sql_sqrt_floor:2018-03-22

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/*

Written by Wilco Dijkstra, 1996. The following email exchange establishes the

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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 319

== chromium/src/third_party/webrtc/modules/third_party/fft
fft

fft:2018-07-26

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```
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    Queen's Univ at Kingston (Canada)

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*/

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-----

== NAME OF DEPENDENCY 320
== chromium/src/third_party/webrtc/modules/third_party/g711
In line A-law and u-law conversion routines
g711:2018-06-25

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/*
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
```

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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 321
== chromium/src/third_party/webrtc/modules/third_party/g722
The ITU G.722 codec, encode and decode part.
g722:2018-06-25

```

```

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Copyright (c) CMU 1993

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== 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 322
== chromium/src/third_party/webrtc/modules/third_party/portaudio
Portaudio library for mac
portaudio:2018-02-01

```

```

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/*

\$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>

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/*

\$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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```
== NAME OF DEPENDENCY 323
== chromium/src/third_party/webrtc/rtc_base/third_party/base64
A simple base64 encoder and decoder
base64:2018-06-20
```

```
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```
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/* or commercial, provided the authors copyright notice remains
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/*
/* Enhancements by Stanley Yamane:
/* o reverse lookup table for the decode function
/* o reserve string buffer space in advance
/*
//
*****
```

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```

```
== NAME OF DEPENDENCY 324
== chromium/src/third_party/webrtc/rtc_base/third_party/sigslot
C++ Signal/Slot Library
sigslot:2018-07-09
```

```
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```
== License
sigslot.h: Signal/Slot classes
```

```
Written by Sarah Thompson (sarah@telergy.com) 2002.
```

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== chromium/src/third_party/weston
Weston - reference Wayland compositor
Weston:9.0.0

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== NAME OF DEPENDENCY 326
== chromium/src/third_party/woff2
woff2
woff2:a0d0ed7da27b708c0a4e96ad7a998bddc933c06e

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== NAME OF DEPENDENCY 327
== chromium/src/third_party/wtl
Windows Template Library (WTL)
Windows Template Library (WTL):10.0.9163

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== NAME OF DEPENDENCY 328
== chromium/src/third_party/wuffs
Wuffs (Wrangling Untrusted File Formats Safely)
Wuffs:0.3.0-beta.13

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== NAME OF DEPENDENCY 329
== chromium/src/third_party/x11proto
x11proto
x11proto:0657164905c607e1b2b1dbac2707b06460a9e2f4

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== NAME OF DEPENDENCY 330

== chromium/src/third_party/zxcvbn-cpp

C++ port of zxcvbn, an advanced password strength estimation library.

zxcvbn-cpp:cf092c952cd2325ce390b2691231a8f1cb195d59

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```
== NAME OF DEPENDENCY 331
== chromium/src/tools/mac/power/protos/third_party/pprof
pprof
pprof:44fc4e887b6b0cfb196973bcdb1fab95f0b3a75b
```

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