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### acl

- **Version (if any):** 2.2.51-14.el7
- **Brief Description:** Access control list utilities
- **License(s):** GPL v2.0
- **Link:** [http://acl.bestbits.at/](http://acl.bestbits.at/)

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### alsa-firmware

- **Version (if any):** 1.0.28-2.el7
- **Brief Description:** Firmware for several ALSA-supported sound cards
- **License(s):** GPLv2.0, LGPLv2.1 and BSD
- **Link:** [http://www.alsa-project.org/](http://www.alsa-project.org/)

*AIICA Firmware*

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The code this firmware was built with is part of the KOS distribution and can also be reviewed here: [http://linuxdc.cvs.sourceforge.net/linuxdc/linux-sh-dc/sound/oss/aica/firmware/](http://linuxdc.cvs.sourceforge.net/linuxdc/linux-sh-dc/sound/oss/aica/firmware/)

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**alsalib**

**Version (if any):** 1.1.6-2.el7  
**Brief Description:** The Advanced Linux Sound Architecture (ALSA) library  
**License(s):** LGPL v2.1

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**alsa-tools-firmware**

**Version (if any):** 1.1.0-1.el7  
**Brief Description:** ALSA tools for uploading firmware to some soundcards  
**License(s):** GPL v2.0

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**atk**

**Version (if any):** 2.28.1-1.el7  
**Brief Description:** Interfaces for accessibility support  
**License(s):** LGPL v2.1

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**audit**

**Version (if any):** 2.8.4-4.el7  
**Brief Description:** User space tools for 2.6 kernel auditing  
**License(s):** GPL v2.0
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**audit-libs**

**Version (if any):** 2.8.4-4.el7  
**Brief Description:** Dynamic library for libaudit  
**License(s):** LGPL v2.1  
**Link:** http://people.redhat.com/sgrubb/audit/

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**authconfig**

**Version (if any):** 6.2.8-30.el7  
**Brief Description:** Command line tool for setting up authentication from network services  
**License(s):** GPL v2.0  
**Link:** https://fedorahosted.org/authconfig

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**autogen-libopts**

**Version (if any):** 5.18-5.el7  
**Brief Description:** Automated option processing library based on autogen  
**License(s):** LGPL v3.0  
**Link:** http://www.gnu.org/software/autogen/

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**avahi-libs**

**Version (if any):** 0.6.31-19.el7  
**Brief Description:** Libraries for avahi run-time use  
**License(s):** LGPL v2.1  
**Link:** http://avahi.org

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basesystem

**Version (if any):** 10.0-7.el7.centos  
**Brief Description:** The skeleton package which defines a simple CentOS Linux system  
**License(s):** Public Domain  
**Link:** https://centos.pkgs.org/7/centos-x86_64/basesystem-10.0-7.el7.centos.noarch.rpm.html

bash

**Version (if any):** 4.2.46-31.el7  
**Brief Description:** The GNU Bourne Again shell  
**License(s):** GPL v3.0  
**Link:** http://www.gnu.org/software/bash

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bind-libs

**Version (if any):** 32:9.9.4-74.el7_6.1  
**Brief Description:** Libraries used by the BIND DNS packages  
**License(s):** ISC  
**Link:** http://www.isc.org/products/BIND/

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### bind-libs-lite

**Version (if any):** 32:9.9.4-74.el7_6.1  
**Brief Description:** Libraries for working with the DNS protocol  
**License(s):** ISC  
**Link:** [http://www.isc.org/products/BIND/](http://www.isc.org/products/BIND/)

*See bind-libs, above.*

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**Version (if any):** 32:9.9.4-74.el7_6.1  
**Brief Description:** License of the BIND DNS suite  
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*See bind-libs, above.*

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### bind-utils

**Version (if any):** 32:9.9.4-74.el7_6.1  
**Brief Description:** Utilities for querying DNS name servers  
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**Link:** [http://www.isc.org/products/BIND/](http://www.isc.org/products/BIND/)

*See bind-libs, above.*

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### binutils

**Version (if any):** 2.27-34.base.el7  
**Brief Description:** A GNU collection of binary utilities  
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biosdevname

Version (if any): 0.7.3-1.el7
Brief Description: Udev helper for naming devices per BIOS names
License(s): GPL v2.0
Link: https://github.com/dell/biosdevname

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btrfs-progs

Version (if any): 4.9.1-1.el7
Brief Description: Userspace programs for btrfs
License(s): GPL v2.0
Link: http://btrfs.wiki.kernel.org/index.php/Main_Page

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bzip2

Version (if any): 1.0.6-13.el7
Brief Description: A file compression utility
License(s): BSD
Link: http://www.bzip.org/

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

---

**bzip2-libs**

**Version (if any):** 1.0.6-13.el7  
**Brief Description:** Libraries for applications using bzip2  
**License(s):** BSD  
**Link:** http://www.bzip.org/

*See bzip2, above.*

---

**ca-certificates**

**Version (if any):** 2018.2.22-70.0.el7_5  
**Brief Description:** The Mozilla CA root certificate bundle  
**License(s):** Public Domain  
**Link:** http://www.mozilla.org/

---

**cairo**

**Version (if any):** 1.15.12-3.el7  
**Brief Description:** A 2D graphics library  
**License(s):** LGPL v2.0 or MPL 1.1, MPL 1.1 selected  
**Link:** http://cairographics.org

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centos-logos

Version (if any): 70.0.6-3.el7.centos
Brief Description: CentOS-related icons and pictures
License(s): CentOS-Logos License
Link: http://www.centos.org

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centos-release

Version (if any): 7-6.1810.2.el7.centos
Brief Description: CentOS Linux release file
License(s): GPL v2.0
Link: https://www.centos.org/

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chkconfig

Version (if any): 1.7.4-1.el7
Brief Description: A system tool for maintaining the /etc/rc*.d hierarchy
License(s): GPL v2.0
Link: https://github.com/fedora-sysv/chkconfig

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copy-jdk-configs

Version (if any): 3.3-10.el7_5
Brief Description: JDKs configuration files copier
License(s): BSD
Link: https://pagure.io/copy_jdk_configs

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coreutils

Version (if any): 8.22-23.el7
Brief Description: A set of basic GNU tools commonly used in shell scripts
License(s): GPL v3.0
Link: http://www.gnu.org/software/coreutils/

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cpio

Version (if any): 2.11-27.el7
Brief Description: A GNU archiving program
License(s): GPL v3.0
Link: http://www.gnu.org/software/cpio/

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cracklib

Version (if any): 2.9.0-11.el7
Brief Description: A password-checking library
License(s): LGPL v2.1
Link: http://sourceforge.net/projects/cracklib/

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**cracklib-dicts**

*Version (if any):* 2.9.0-11.el7
*Brief Description:* The standard CrackLib dictionaries
*License(s):* LGPL v2.1
*Link:* http://sourceforge.net/projects/cracklib/

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**cronie**

*Version (if any):* 1.4.11-20.el7_6
*Brief Description:* Cron daemon for executing programs at set times
*License(s):* GPL v2.0, MIT, BSD and ISC
*Link:* https://github.com/cronie-cron/cronie

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* @(#)
*/

bitstring.h 8.1 (Berkeley) 7/19/93
cronie-anacron

**Version (if any):** 1.4.11-20.el7_6  
**Brief Description:** Utility for running regular jobs  
**License(s):** GPL v2.0 and MIT and BSD and ISC  
**Link:** https://github.com/cronie-cronid/cronie

See cronie, above.

crontabs

**Version (if any):** 1.11-6.20121102git.el7  
**Brief Description:** Root crontab files used to schedule the execution of programs  
**License(s):** GPL v2.0 and Public Domain  
**Link:** https://fedorahosted.org/crontabs

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cryptsetup-libs

**Version (if any):** 2.0.3-3.el7  
**Brief Description:** Cryptsetup shared library  
**License(s):** GPL v2.0 and LGPL v2.1  
**Link:** https://gitlab.com/cryptsetup/cryptsetup

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cups-libs

**Version (if any):** 1:1.6.3-35.el7  
**Brief Description:** CUPS printing system - libraries  
**License(s):** LGPL v2.0 with Exceptions  
**Link:** http://www.cups.org/

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curl

Version (if any):  7.29.0-51.el7
Brief Description:  A utility for getting files from remote servers (FTP, HTTP, and others)
License(s):  MIT
Link:  http://curl.haxx.se/
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cyrus-sasl-lib

Version (if any): 2.1.26-23.el7
Brief Description: Shared libraries needed by applications which use Cyrus SASL
License(s): BSD
Link: http://asg.web.cmu.edu/sasl/sasl-library.html

/* CMU lbsasl
 * Tim Martin
 * Rob Earhart
 * Rob Siemborski
 */

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**dbus**

Version (if any): 1:1.10.24-13.el7_6

Brief Description: D-BUS message bus

License(s): GPL v2.0 and AFL 2.1, AFL 2.1 chosen where applicable

Link: http://www.freedesktop.org/Software/dbus/

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---

**dbus-glib**

Version (if any): 0.100-7.el7

---
Brief Description: GLib bindings for D-Bus
License(s): GPL v2.0 and AFL 2.1
Link: http://www.freedesktop.org/software/dbus/

See dbus, above.

dbus-libs

Version (if any): 1:1.10.24-13.el7_6
Brief Description: Libraries for accessing D-BUS
License(s): GPL v2.0 and AFL 2.1
Link: http://www.freedesktop.org/Software/dbus/

See dbus, above.

dbus-python

Version (if any): 1.1.1-9.el7
Brief Description: D-Bus Python Bindings
License(s): MIT
Link: http://www.freedesktop.org/software/dbus-python

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Version (if any): 2.33-6.el7
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Link: http://dejavu-fonts.org/

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dejavu-sans-fonts

Version (if any): 2.33-6.el7
Brief Description: Variable-width sans-serif font faces
License(s): Bitstream Vera License and Public Domain
Link: http://dejavu-fonts.org/

See dejavu-fonts-common, above.
device-mapper

Version (if any): 7:1.02.149-10.el7_6.7
Brief Description: Device mapper utility
License(s): GPL v2.0
Link: http://sources.redhat.com/dm

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device-mapper-event

Version (if any): 7:1.02.149-10.el7_6.7
Brief Description: Device-mapper event daemon
License(s): GPL v2.0
Link: http://sources.redhat.com/lvm2

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device-mapper-event-libs

Version (if any): 7:1.02.149-10.el7_6.7
Brief Description: Device-mapper event daemon shared library
License(s): LGPL v2.0
Link: http://sources.redhat.com/lvm2

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device-mapper-libs

Version (if any): 7:1.02.149-10.el7_6.7
Brief Description: Device-mapper shared library
License(s): LGPL v2.0
Link: http://sources.redhat.com/lvm2

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device-mapper-persistent-data

Version (if any): 0.7.3-3.el7
Brief Description: Device-mapper Persistent Data Tools
License(s): GPL v3.0
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---

dhclient

**Version (if any):** 12:4.2.5-68.el7.centos.1  
**Brief Description:** Provides the ISC DHCP client daemon and dhclient-script  
**License(s):** ISC  
**Link:** http://isc.org/products/DHCP/

---

dhcp-common

**Version (if any):** 12:4.2.5-68.el7.centos.1  
**Brief Description:** Common files used by ISC dhcp client and server  
**License(s):** ISC  
**Link:** http://isc.org/products/DHCP/

See dhclient, above.

---

dhcp-libs

**Version (if any):** 12:4.2.5-68.el7.centos.1  
**Brief Description:** Shared libraries used by ISC dhcp client and server  
**License(s):** ISC
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**Link:** http://isc.org/products/DHCP/

See [dhclient](http://isc.org/products/DHCP/) above.

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**diffutils**

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<th>Version (if any)</th>
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<tbody>
<tr>
<td>Brief Description</td>
<td>A GNU collection of diff utilities</td>
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**dmidecode**

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<th>Version (if any)</th>
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<tr>
<td>Brief Description</td>
<td>Tool to analyse BIOS DMI data</td>
</tr>
<tr>
<td>License(s)</td>
<td>GPL v2.0</td>
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<td><a href="http://www.nongnu.org/dmidecode/">http://www.nongnu.org/dmidecode/</a></td>
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**dracut**

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<th>Version (if any)</th>
<th>033-554.el7</th>
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<tr>
<td>Brief Description</td>
<td>Initramfs generator using udev</td>
</tr>
<tr>
<td>License(s)</td>
<td>GPL v2.0 and LGPL v2.1</td>
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<tr>
<td>Link</td>
<td><a href="https://dracut.wiki.kernel.org/">https://dracut.wiki.kernel.org/</a></td>
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**dracut-config-rescue**

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<th>Version (if any)</th>
<th>033-554.el7</th>
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<tr>
<td>Brief Description</td>
<td>dracut configuration to turn on rescue image generation</td>
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<tr>
<td>License(s)</td>
<td>GPL v2.0 and LGPL v2.1</td>
</tr>
<tr>
<td>Link</td>
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**dracut-network**

<table>
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<th>Version (if any)</th>
<th>033-554.el7</th>
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**Brief Description:** dracut modules to build a dracut initramfs with network support

**License(s):** GPL v2.0 and LGPL v2.1

**Link:** https://dracut.wiki.kernel.org/

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**e2fsprogs**

**Version (if any):** 1.42.9-13.el7

**Brief Description:** Utilities for managing ext2, ext3, and ext4 filesystems

**License(s):** GPL v2.0

**Link:** http://e2fsprogs.sourceforge.net/

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**e2fsprogs-libs**

**Version (if any):** 1.42.9-13.el7

**Brief Description:** Ext2/3/4 filesystem-specific shared libraries

**License(s):** GPL v2.0 and LGPL v2.0

**Link:** http://e2fsprogs.sourceforge.net/

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**ebtables**

**Version (if any):** 2.0.10-16.el7

**Brief Description:** Ethernet Bridge frame table administration tool

**License(s):** GPL v2.0

**Link:** http://ebtables.sourceforge.net/

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**elfutils-default-yama-scope**

**Version (if any):** 0.172-2.el7

**Brief Description:** Default yama attach scope sysctl setting

**License(s):** GPL v2.0 or LGPL v3.0, LGPL v3.0 selected

**Link:** http://elfutils.org/

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elfutils-libelf

Version (if any): 0.172-2.el7
Brief Description: Library to read and write ELF files
License(s): GPL v2.0 or LGPL v3.0, LGPL v3.0 selected
Link: http://elfutils.org/

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elfutils-libs

Version (if any): 0.172-2.el7
Brief Description: Libraries to handle compiled objects
License(s): GPL v2.0 or LGPL v3.0, LGPL v3.0 selected
Link: http://elfutils.org/

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ethtool

Version (if any): 2:4.8-9.el7
Brief Description: Settings tool for Ethernet NICs
License(s): GPL v2.0

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eventlog

Version (if any): 0.2.13-4.el7
Brief Description: Syslog-ng v2/v3 support library
License(s): BSD

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expat

Version (if any): 2.1.0-10.el7_3
Brief Description: An XML parser library
License(s): MIT
Link: http://www.libexpat.org/

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fastlz

Version (if any): 0.1.0-0.1.20070619svnrev12.el7
Brief Description: Portable real-time compression library
License(s): MIT
Link: http://fastlz.org/
Okta Access Gateway
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file

Version (if any): 5.11-35.el7
Brief Description: A utility for determining file types
License(s): BSD
Link: http://www.darwinsys.com/file/

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file-libs

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<thead>
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<th>Version (if any):</th>
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<tr>
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<td>Libraries for applications using libmagic</td>
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<tr>
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<td>BSD</td>
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<tr>
<td>Link:</td>
<td><a href="http://www.darwinsys.com/file/">http://www.darwinsys.com/file/</a></td>
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filesystem
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Version (if any): 3.2-25.el7
Brief Description: The basic directory layout for a Linux system
License(s): Public Domain
Link: https://pagure.io/filesystem

findutils

Version (if any): 1:4.5.11-6.el7
Brief Description: The GNU versions of find utilities (find and xargs)
License(s): GPL v3.0
Link: http://www.gnu.org/software/findutils/

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fipscheck

Version (if any): 1.4.1-6.el7
Brief Description: A library for integrity verification of FIPS validated modules
License(s): BSD
Link: http://fedorahosted.org/fipscheck/

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fipscheck-lib

**Version (if any):** 1.4.1-6.el7  
**Brief Description:** Library files for fipscheck  
**License(s):** BSD  
**Link:** http://fedorahosted.org/fipscheck/

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firewalld

**Version (if any):** 0.5.3-5.el7  
**Brief Description:** A firewall daemon with D-Bus interface providing a dynamic firewall  
**License(s):** GPL v2.0  
**Link:** http://www.firewalld.org

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firewalld-filesystem

Version (if any): 0.5.3-5.el7
Brief Description: Firewalld directory layout and rpm macros
License(s): GPL v2.0
Link: http://www.firewalld.org

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fontconfig

Version (if any): 2.13.0-4.3.el7
Brief Description: Font configuration and customization library
License(s): MIT and UCD and Public Domain
Link: http://fontconfig.org

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**fontpackages-filesystem**

**Version (if any):** 1.44-8.el7  
**Brief Description:** Directories used by font packages  
**License(s):** Public Domain  
**Link:** [http://fedoraproject.org/wiki/fontpackages](http://fedoraproject.org/wiki/fontpackages)

---

**freetype**

**Version (if any):** 2.8-12.el7_6.1  
**Brief Description:** A free and portable font rendering engine  
**License(s):** GPL v2.0 or FreeType License, FreeType License Selected  
**Link:** [http://www.freetype.org](http://www.freetype.org)

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**fribidi**

**Version (if any):** 1.0.2-1.el7  
**Brief Description:** Library implementing the Unicode Bidirectional Algorithm  
**License(s):** LGPL v2.1  
**Link:** [http://fribidi.org](http://fribidi.org)
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**fuse**

*Version (if any):* 2.9.2-11.el7  
*Brief Description:* File System in Userspace (FUSE) utilities  
*License(s):* GPL v2.0  
*Link:* https://github.com/libfuse/libfuse

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**fuse-libs**

*Version (if any):* 2.9.2-11.el7  
*Brief Description:* File System in Userspace (FUSE) libraries  
*License(s):* LGPL v2.1  
*Link:* https://github.com/libfuse/libfuse

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**fxload**

*Version (if any):* 2002_04_11-16.el7  
*Brief Description:* A helper program to download firmware into FX and FX2 EZ-USB devices  
*License(s):* GPL v2.0  
*Link:* http://linux-hotplug.sourceforge.net/

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**gawk**

*Version (if any):* 4.0.2-4.el7_3.1  
*Brief Description:* The GNU version of the awk text processing utility  
*License(s):* GPL v3.0, LGPL v3.0 and BSD  
*Link:* http://www.gnu.org/software/gawk/gawk.html

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 * Arnold Robbins
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gdbm

Version (if any): 1.10-8.el7
Brief Description: A GNU set of database routines which use extensible hashing
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Link: http://www.gnu.org/software/gdbm/
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**gdk-pixbuf2**

**Version (if any):** 2.36.12-3.el7  
**Brief Description:** An image loading library  
**License(s):** LGPL v2.1  
**Link:** http://www.gtk.org

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**GeoIP**

**Version (if any):** 1.5.0-13.el7  
**Brief Description:** Library for country/city/organization to IP address or hostname mapping  
**License(s):** GPL v2.0, LGPL v2.1 and BSD  
**Link:** http://www.maxmind.com/app/c

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gettext

Version (if any): 0.19.8.1-2.el7
Brief Description: GNU libraries and utilities for producing multi-lingual messages
License(s): GPL v3.0 and LGPL v2.1
Link: http://www.gnu.org/software/gettext/

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ggettext-libs

Version (if any): 0.19.8.1-2.el7
Brief Description: Libraries for gettext
License(s): GPL v3.0 and LGPL v2.1
Link: http://www.gnu.org/software/gettext/

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giflib

Version (if any): 4.1.6-9.el7
Brief Description: Library for manipulating GIF format image files
License(s): MIT
Link: http://www.sourceforge.net/projects/giflib/

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**git**

**Version (if any):** 1.8.3.1-20.el7  
**Brief Description:** Fast Version Control System  
**License(s):** GPL v2.0  
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**glib2**

**Version (if any):** 2.56.1-4.el7_6  
**Brief Description:** A library of handy utility functions  
**License(s):** LGPL v2.1  
**Link:** [http://www.gtk.org](http://www.gtk.org)

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**glibc**

**Version (if any):** 2.17-260.el7_6.5  
**Brief Description:** The GNU libc libraries  
**License(s):** LGPL v2.1 and LGPL v2.1 with exceptions, GPL v2.0, Various  
**Link:** [http://www.gnu.org/software/glibc/](http://www.gnu.org/software/glibc/)

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</table>
gobject-introspection

Version (if any): 1.56.1-1.el7
Brief Description: Introspection system for GObject-based libraries
License(s): GPL v2.0, LGPL v2.1 and MIT
Link: https://wiki.gnome.org/Projects/GObjectIntrospection

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* GObject introspection: C parser -* indent-tabs-mode: t; tab-width: 8 -*

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**Version (if any):** 1.3.2-5.el7  
**Brief Description:** GnuPG Made Easy - high level crypto APIs  
**License(s):** LGPL v2.1  
**Link:** http://www.gnupg.org/related_software/gpgme/  

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**gpm-libs**

**Version (if any):** 1.20.7-5.el7  
**Brief Description:** Dynamic library for for the gpm  
**License(s):** GPL v2.0  
**Link:** http://www.nico.schottelius.org/software/gpm/  

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**graphite2**
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Version (if any): 1.3.10-1.el7_3
Brief Description: Font rendering capabilities for complex non-Roman writing systems
License(s): GPL v2.0 or LGPL v2.1 or MPL 2.0, MPL 2.0 selected
Link: https://sourceforge.net/projects/silgraphite/

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grep

Version (if any): 2.20-3.el7
Brief Description: Pattern matching utilities
License(s): GPL v3.0
Link: http://www.gnu.org/software/grep/

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groff-base

Version (if any): 1.22.2-8.el7
Brief Description: Parts of the groff formatting system required to display manual pages
License(s): GPL v3.0
Link: http://www.gnu.org/software/groff/

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grub2

Version (if any): 1:2.02-0.76.el7.centos.1
Brief Description: Bootloader with support for Linux, Multiboot and more
License(s): GPL v3.0
Link: http://www.gnu.org/software/grub/

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grub2-common

Version (if any): 1:2.02-0.76.el7.centos.1
Brief Description: grub2 common layout
License(s): GPL v3.0
Link: http://www.gnu.org/software/grub/
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**grub2-pc**

Version (if any): 1:2.02-0.76.el7.centos.1  
Brief Description: Bootloader with support for Linux, Multiboot, and more  
License(s): GPL v3.0  
Link: http://www.gnu.org/software/grub/

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**grub2-pc-modules**

Version (if any): 1:2.02-0.76.el7.centos.1  
Brief Description: Modules used to build custom grub images  
License(s): GPL v3.0  
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**grub2-tools**

Version (if any): 1:2.02-0.76.el7.centos.1  
Brief Description: Support tools for GRUB.  
License(s): GPL v3.0  
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**grub2-tools-minimal**

Version (if any): 1:2.02-0.76.el7.centos.1  
Brief Description: Support tools for GRUB.  
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Link: http://www.gnu.org/software/grub/

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Version (if any): 8.28-25.el7
Brief Description: Command line tool for updating bootloader configs
License(s): GPL v2.0
Link: http://git.fedorahosted.org/git/grubby.git

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gtk2

Version (if any): 2.24.31-1.el7
Brief Description: The GIMP ToolKit (GTK+), a library for creating GUIs for X
License(s): LGPL v2.1
Link: http://www.gtk.org

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gtk-update-icon-cache

Version (if any): 3.22.30-3.el7
Brief Description: Icon theme caching utility
License(s): LGPL v2.1
Link: http://www.gtk.org

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gzip

Version (if any): 1.5-10.el7
Brief Description: The GNU data compression program
License(s): GPL v3.0
Link: http://www.gzip.org/

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hardlink

Version (if any): 1:1.0-19.el7
Brief Description: Create a tree of hardlinks
License(s): GPL v2.0
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harfbuzz

Version (if any): 1.7.5-2.el7
Brief Description: Text shaping library
License(s): MIT
Link: http://freedesktop.org/wiki/Software/HarfBuzz

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<td><a href="http://icon-theme.freedesktop.org/wiki/HicolorTheme">http://icon-theme.freedesktop.org/wiki/HicolorTheme</a></td>
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<td>hostname</td>
<td>1.0</td>
<td>Utility to set/show the host name or domain name</td>
<td>GPL v2.0</td>
<td><a href="http://packages.qa.debian.org/h/hostname.html">http://packages.qa.debian.org/h/hostname.html</a></td>
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<td>hwdata</td>
<td>0.252-9.1.el7</td>
<td>Hardware identification and configuration data</td>
<td>GPL v2.0</td>
<td><a href="https://github.com/vcrhonek/hwdata">https://github.com/vcrhonek/hwdata</a></td>
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<td>incron</td>
<td>0.5.10-8.el7</td>
<td>Inotify cron system</td>
<td>GPL v2.0</td>
<td><a href="http://inotify.aiken.cz">http://inotify.aiken.cz</a></td>
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info

Version (if any): 5.1-5.el7
Brief Description: A stand-alone TTY-based reader for GNU texinfo documentation
License(s): GPL v3.0
Link: http://www.gnu.org/software/texinfo/

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initscripts

Version (if any): 9.49.46-1.el7
Brief Description: The inittab file and the /etc/init.d scripts
License(s): GPL v2.0
Link: https://github.com/fedora-sysv/initscripts

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iproute

Version (if any): 4.11.0-14.el7_6.2
Brief Description: Advanced IP routing and network device configuration tools
License(s): GPL v2.0, BSD and Public Domain, BSD selected where applicable
Link: http://kernel.org/pub/linux/utils/net/iproute2/

INET An implementation of the TCP/IP protocol suite for the LINUX operating system. INET is implemented using the BSD Socket interface as the means of communication with the user level.

Definitions for the IP protocol.

Version: @(#)ip.h 1.0.2 04/28/93

Authors: Fred N. van Kempen, <waltje@uWalt.NL.Mugnet.ORG>

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Experimental data distribution table generator

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Codel - The Controlled-Delay Active Queue Management algorithm

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**ipset**

Version (if any): 6.38-3.el7_6
Brief Description: Manage Linux IP sets
License(s): GPL v2.0
Link: http://ipset.netfilter.org/

See Open Source Licenses below for complete copy of the GPL v2.0 license.

**ipset-lib**

Version (if any): 6.38-3.el7_6
Brief Description: Shared library providing the IP sets functionality
License(s): GPL v2.0
Link: http://ipset.netfilter.org/

See Open Source Licenses below for complete copy of the GPL v2.0 license.

**iptables**

Version (if any): 1.4.21-28.el7
Brief Description: Tools for managing Linux kernel packet filtering capabilities
License(s): GPL v2.0
Link: http://www.netfilter.org/

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**iputils**

Version (if any): 20160308-10.el7
Brief Description: Network monitoring tools including ping
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**License(s):** GPL v2.0 and BSD  
**Link:** https://github.com/iputils/iputils

---

```
arping.c
```

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**Authors:** Alexey Kuznetsov, <kuznet@ms2.inr.ac.ru>
YOSHIFUJI Hideaki <yoshfuji@linux-ipv6.org>

The following notice is found in the file ping.c in iputils-s20160308.zip available for download at the website:

https://github.com/iputils/iputils/archive/s20160308.zip

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**irqbalance**

**Version (if any):** 3:1.0.7-11.el7
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<td>irqbalance</td>
<td></td>
<td>IRQ balancing daemon</td>
<td>GPL v2.0</td>
<td><a href="https://github.com/Irqbalance/irqbalance">https://github.com/Irqbalance/irqbalance</a></td>
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<tr>
<td>ivyxis</td>
<td>0.36.2-2.el7</td>
<td>Library for asynchronous I/O readiness notification</td>
<td>LGPL v2.1</td>
<td><a href="http://libivykis.sourceforge.net/">http://libivykis.sourceforge.net/</a></td>
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<td>iwl100-firmware</td>
<td>39.31.5.1-69.el7</td>
<td>Firmware for Intel(R) Wireless WiFi Link 100 Series Adapters</td>
<td>Various</td>
<td><a href="https://git.kernel.org/cgit/linux/kernel/git/firmware/linux-firmware.git/">https://git.kernel.org/cgit/linux/kernel/git/firmware/linux-firmware.git/</a></td>
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See linux-firmware, below.
### iwl135-firmware

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<th>Version (if any):</th>
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See linux-firmware, below.

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See linux-firmware, below.

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<tr>
<td>Brief Description:</td>
<td>Firmware for Intel(R) Centrino Wireless-N 2030 Series Adapters</td>
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See linux-firmware, below.

### iwl3160-firmware

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<td>Firmware for Intel(R) Dual Band Wireless-AC 3160 Series Adapters</td>
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See linux-firmware, below.
### iwI3160-firmware

**Version (if any):** 22.0.7.0-69.el7  
**Brief Description:** Firmware for Intel(R) Dual Band Wireless-AC 3160 Series Adapters  
**License(s):** Various  
**Link:** https://git.kernel.org/cgit/linux/kernel/git/firmware/linux-firmware.git/

See linux-firmware, below.

### iwI3945-firmware

**Version (if any):** 15.32.2.9-69.el7  
**Brief Description:** Firmware for Intel® PRO/Wireless 3945 A/B/G network adaptors  
**License(s):** Various  
**Link:** https://git.kernel.org/cgit/linux/kernel/git/firmware/linux-firmware.git/

See linux-firmware, below.

### iwI4965-firmware

**Version (if any):** 228.61.2.24-69.el7  
**Brief Description:** Firmware for Intel® PRO/Wireless 4965 A/G/N network adaptors  
**License(s):** Various  
**Link:** https://git.kernel.org/cgit/linux/kernel/git/firmware/linux-firmware.git/

See linux-firmware, below.

### iwI5000-firmware

**Version (if any):** 8.83.5.1_1-69.el7  
**Brief Description:** Firmware for Intel® PRO/Wireless 5000 A/G/N network adaptors  
**License(s):** Various  
**Link:** https://git.kernel.org/cgit/linux/kernel/git/firmware/linux-firmware.git/

See linux-firmware, below.
iwl5150-firmware

Version (if any): 8.24.2-69.el7  
Brief Description: Firmware for Intel® PRO/Wireless 5150 A/G/N network adaptors  
License(s): Various  
Link: https://git.kernel.org/cgit/linux/kernel/git/firmware/linux-firmware.git/

See linux-firmware, below.

iwl6000-firmware

Version (if any): 9.221.4-69.el7  
Brief Description: Firmware for Intel(R) Wireless WiFi Link 6000 AGN Adapter  
License(s): Various  
Link: https://git.kernel.org/cgit/linux/kernel/git/firmware/linux-firmware.git/

See linux-firmware, below.

iwl6000g2a-firmware

Version (if any): 17.168.5-69.el7  
Brief Description: Firmware for Intel(R) Wireless WiFi Link 6005 Series Adapters  
License(s): Various  
Link: https://git.kernel.org/cgit/linux/kernel/git/firmware/linux-firmware.git/

See linux-firmware, below.

iwl6000g2b-firmware

Version (if any): 17.168.5-69.el7  
Brief Description: Firmware for Intel(R) Wireless WiFi Link 6030 Series Adapters  
License(s): Various  
Link: https://git.kernel.org/cgit/linux/kernel/git/firmware/linux-firmware.git/

See linux-firmware, below.

iwl6050-firmware
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### Third Party Licenses and Notices

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<td>22.0.7.0-69.el7</td>
<td>Firmware for Intel(R) Dual Band Wireless-AC 7260 Series Adapters</td>
<td>Various</td>
<td><a href="https://git.kernel.org/cgit/linux/kernel/git/firmware/linux-firmware.git/">https://git.kernel.org/cgit/linux/kernel/git/firmware/linux-firmware.git/</a></td>
</tr>
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<td>iwl7265-firmware</td>
<td>22.0.7.0-69.el7</td>
<td>Firmware for Intel(R) Dual Band Wireless-AC 7265 Series Adapters</td>
<td>Various</td>
<td><a href="https://git.kernel.org/cgit/linux/kernel/git/firmware/linux-firmware.git/">https://git.kernel.org/cgit/linux/kernel/git/firmware/linux-firmware.git/</a></td>
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<tr>
<td>jansson</td>
<td>2.10-1.el7</td>
<td>C library for encoding, decoding and manipulating JSON data</td>
<td>MIT</td>
<td><a href="http://www.digip.org/jansson/">http://www.digip.org/jansson/</a></td>
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jasper-libs

Version (if any): 1.900.1-33.el7
Brief Description: Runtime libraries for jasper
License(s): MIT
Link: http://www.ece.uvic.ca/~frodo/jasper/

JasPer License Version 2.0

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**java-1.8.0-openjdk**

**Version (if any):** 1:1.8.0.212.b04-0.el7_6  
**Brief Description:** OpenJDK Runtime Environment  
**License(s):** GPL v2.0 with Classpath Exception  
**Link:** http://openjdk.java.net/

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---

**java-1.8.0-openjdk-headless**

**Version (if any):** 1:1.8.0.212.b04-0.el7_6  
**Brief Description:** OpenJDK Runtime Environment  
**License(s):** GPL v2.0 with Classpath Exception  
**Link:** http://openjdk.java.net/

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**javapackages-tools**

**Version (if any):** 3.4.1-11.el7  
**Brief Description:** Macros and scripts for Java packaging support  
**License(s):** BSD  
**Link:** https://fedorahosted.org/javapackages/

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jbigkit-libs

Version (if any): 2.0-11.el7
Brief Description: JBIG1 lossless image compression library
License(s): GPL v2.0
Link: http://www.cl.cam.ac.uk/~mgk25/jbigkit/

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json-c

Version (if any): 0.11-4.el7_0
Brief Description: A JSON implementation in C
License(s): MIT
Link: https://github.com/json-c/json-c/wiki

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kbd

Version (if any): 1.15.5-15.el7
Brief Description: Tools for configuring the console (keyboard, virtual terminals, etc.)
License(s): GPL v2.0
Link: http://ftp.altlinux.org/pub/people/legion/kbd

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kbd-legacy

Version (if any): 1.15.5-15.el7
Brief Description: Legacy data for kbd package
License(s): GPL v2.0
Link: http://ftp.altlinux.org/pub/people/legion/kbd

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kbd-misc

Version (if any): 1.15.5-15.el7
Brief Description: Data for kbd package
License(s): GPL v2.0
Link: http://ftp.altlinux.org/pub/people/legion/kbd

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**kernel**

Version (if any): 3.10.0-957.el7  
Brief Description: The Linux kernel  
License(s): GPL v2.0  
Link: http://www.kernel.org/

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**kernel**

Version (if any): 3.10.0-957.21.3.el7  
Brief Description: The Linux kernel  
License(s): GPL v2.0  
Link: http://www.kernel.org/

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**kernel-tools**

Version (if any): 3.10.0-957.21.3.el7  
Brief Description: Assortment of tools for the Linux kernel  
License(s): GPL v2.0  
Link: http://www.kernel.org/

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**kernel-tools-libs**

Version (if any): 3.10.0-957.21.3.el7  
Brief Description: Libraries for the kernels-tools  
License(s): GPL v2.0  
Link: http://www.kernel.org/

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**kexec-tools**

Version (if any): 2.0.15-21.el7_6.3
## Okta Access Gateway
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<td>keyutils</td>
<td>1.5.8-3.el7</td>
<td>Key utilities library</td>
<td>LGPL v2.1</td>
<td><a href="http://people.redhat.com/~dhowells/keyutils/">http://people.redhat.com/~dhowells/keyutils/</a></td>
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<td>kpartx</td>
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<td>Partition device manager for device-mapper devices</td>
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krb5-libs

Version (if any): 1.15.1-37.el7_6
Brief Description: The non-admin shared libraries used by Kerberos 5
License(s): MIT
Link: http://web.mit.edu/kerberos/www/

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- lib/gssapi/mechglue/g_accept_sec_context.c
- lib/gssapi/mechglue/g_acquire_cred.c
- lib/gssapi/mechglue/g_canon_name.c
- lib/gssapi/mechglue/g_compare_name.c
- lib/gssapi/mechglue/g_context_time.c
- lib/gssapi/mechglue/g_delete_sec_context.c
- lib/gssapi/mechglue/g_dsp_name.c
- lib/gssapi/mechglue/g_dsp_status.c
- lib/gssapi/mechglue/g_dup_name.c
- lib/gssapi/mechglue/g_exp_sec_context.c
- lib/gssapi/mechglue/g_export_name.c
- lib/gssapi/mechglue/g_glue.c
and the initial implementation of incremental propagation, including the following new or changed files:
include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
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**less**

Version (if any): 458-9.el7  
Brief Description: A text file browser similar to more, but better  
License(s): GPL v3.0  
Link: http://www.greenwoodsoftware.com/less/

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**libacl**

Version (if any): 2.2.51-14.el7  
Brief Description: Dynamic library for access control list support  
License(s): LGPL v2.1  
Link: http://acl.bestbits.at/

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**libaio**

Version (if any): 0.3.109-13.el7  
Brief Description: Linux-native asynchronous I/O access library  
License(s): LGPL v2.1  
Link: http://lse.sourceforge.net/io/aio.html

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**libassuan**

Version (if any): 2.1.0-3.el7  
Brief Description: GnuPG IPC library  
License(s): GPL v3.0 and LGPL v2.1  
Link: http://www.gnupg.org/

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assuan.c - Global interface (not specific to context).
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**libattr**

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**libblkid**

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**libcap**

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**libcap-ng**
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Version (if any): 0.7.5-4.el7
Brief Description: An alternate posix capabilities library
License(s): LGPL v2.1
Link: http://people.redhat.com/sgrubb/libcap-ng

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libcom_err

Version (if any): 1.42.9-13.el7
Brief Description: Common error description library
License(s): MIT
Link: http://e2fsprogs.sourceforge.net/

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libcroco

Version (if any): 0.6.12-4.el7
Brief Description: A CSS2 parsing library
License(s): LGPL v2.0
Link: https://github.com/GNOME/libcroco

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libcurl

Version (if any): 7.29.0-51.el7
Brief Description: A library for getting files from web servers
License(s): MIT
Link: http://curl.haxx.se/

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libdaemon

**Version (if any):** 0.14-7.el7  
**Brief Description:** Library for writing UNIX daemons  
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**Link:** http://0pointer.de/lennart/projects/libdaemon/

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libdb

**Version (if any):** 5.3.21-24.el7  
**Brief Description:** The Berkeley DB database library for C  
**License(s):** Sleepycat License, BSD  
**Link:** http://www.oracle.com/database/berkeley-db/

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ASM: a very small and fast Java bytecode manipulation framework

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libdbi

**Version (if any):** 0.8.4-6.el7  
**Brief Description:** Database Independent Abstraction Layer for C  
**License(s):** LGPL v2.1  
**Link:** http://libdbi.sourceforge.net/

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libdb-utils

**Version (if any):** 5.3.21-24.el7  
**Brief Description:** Command line tools for managing Berkeley DB databases  
**License(s):** Sleepycat License, BSD  
**Link:** http://www.oracle.com/database/berkeley-db/

*See libdb, above.*

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libdnet

**Version (if any):** 1.12-13.1.el7
Okta Access Gateway
Third Party Licenses and Notices

Brief Description: Simple portable interface to lowlevel networking routines
License(s): BSD
Link: http://code.google.com/p/libdnet/

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libdrm

Version (if any): 2.4.91-3.el7
Brief Description: Direct Rendering Manager runtime library
License(s): MIT
Link: http://dri.sourceforge.net

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libedit

Version (if any): 3.0-12.20121213cvs.el7
Brief Description: The NetBSD Editline library
License(s): BSD
Link: http://www.thrysoee.dk/editline/

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libestr

Version (if any): 0.1.9-2.el7  
Brief Description: String handling essentials library  
License(s): LGPL v2.1  
Link: http://libestr.adiscon.com/

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libevent

Version (if any): 2.0.21-4.el7  
Brief Description: Abstract asynchronous event notification library  
License(s): BSD  
Link: http://sourceforge.net/projects/levent/

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win32select.c:
  Copyright (c) 2003 Michael A. Davis <mike@datanerds.net>

evport.c:
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libfastjson

Version (if any): 0.99.4-3.el7
Brief Description: A JSON implementation in C
License(s): MIT
Link: https://github.com/rsyslog/libfastjson
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libffi

Version (if any): 3.0.13-18.el7
Brief Description: Lorem ipsum dolor
License(s): MIT and Public Domain
Link: http://sourceware.org/libffi

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libfontenc

Version (if any): 1.1.3-3.el7
Brief Description: X.Org X11 libfontenc runtime library
License(s): MIT
Link: http://www.x.org

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libgcc

Version (if any): 4.8.5-36.el7_6.2
Brief Description: GCC version 4.8 shared support library
License(s): GPL v3.0 with GCC Runtime Exception
Link: http://gcc.gnu.org

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libcrypt

Version (if any): 1.5.3-14.el7
Brief Description: A general-purpose cryptography library
License(s): LGPL v2.1
Link: http://www.gnupg.org/

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libglvnd

Version (if any): 1:1.0.1-0.8.git5bba1e5.el7
Brief Description: Vendor-neutral GL dispatch library
License(s): Various
Link: https://github.com/NVIDIA/libglvnd
Acknowledgements
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Thanks to Andy Ritger for the original libGLX implementation and README documentation.

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### X.Org ###

libglvnd contains list.h, a linked list implementation from the X.Org project. Source code from the X.Org project is available from:

http://cgit.freedesktop.org/xorg/xserver

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libglvnd contains code from the Mesa project. Source code from the Mesa project
is available from:

http://cgit.freedesktop.org/mesa/mesa

The default Mesa license is as follows:

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```

### uthash ###

libglvnd uses the hash table implementation 'uthash':

http://troydhanson.github.io/uthash/

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### buildconf ###

libglvnd uses the buildconf autotools bootstrapping script 'autogen.sh':

http://freecode.com/projects/buildconf

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libglvnd uses the cJSON library for reading JSON files:

https://github.com/DaveGamble/cJSON

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**libglvnd-egl**

**Version (if any):** 1:1.0.1-0.8.git5baa1e5.el7  
**Brief Description:** Vendor-neutral GL dispatch library – EGL support  
**License(s):** Various  
**Link:** https://github.com/NVIDIA/libglvnd

See libglvnd, above.

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**libglvnd-glx**

**Version (if any):** 1:1.0.1-0.8.git5baa1e5.el7  
**Brief Description:** Vendor-neutral GL dispatch library – GLX support  
**License(s):** Various  
**Link:** https://github.com/NVIDIA/libglvnd

See libglvnd, above.

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**libgomp**

**Version (if any):** 4.8.5-36.el7_6.2  
**Brief Description:** GCC OpenMP v3.0 shared support library  
**License(s):** GPL v3.0 with Runtime Library Exception, GPL v2.0 and LGPL v2.1  
**Link:** http://gcc.gnu.org

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libgpg-error

**Version (if any):** 1.12-3.el7
**Brief Description:** Library for error values used by GnuPG components
**License(s):** LGPL v2.1
**Link:** ftp://ftp.gnupg.org/gcrypt/libgpg-error/

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libICE

**Version (if any):** 1.0.9-9.el7
**Brief Description:** X.Org X11 ICE runtime library
**License(s):** MIT
**Link:** http://www.x.org

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Author: Ralph Mor, X Consortium

libicu

**Version (if any):** 50.1.2-17.el7
Brief Description: International Components for Unicode - libraries
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Link: http://www.icu-project.org/

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libidn

**Version (if any):** 1.28-4.el7

**Brief Description:** Internationalized Domain Name support library

**License(s):** GPL v3.0, LGPL v2.1 and GFDL

**Link:** http://www.gnu.org/software/libidn/

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libjpeg-turbo

**Version (if any):** 1.2.90-6.el7

**Brief Description:** A MMX/SSE2 accelerated library for manipulating JPEG image files

**License(s):** IJG License

**Link:** http://sourceforge.net/projects/libjpeg-turbo

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**libmcrypt**

**Version (if any):** 2.5.8-13.el7  
**Brief Description:** Encryption algorithms library  
**License(s):** LGPL v2.1  
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**libmemcached**

**Version (if any):** 1.0.16-5.el7  
**Brief Description:** Client library and command line tools for memcached server  
**License(s):** BSD  
**Link:** http://libmemcached.org/

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libmnl

Version (if any): 1.0.3-7.el7
Brief Description: A minimalistic Netlink library
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libmount

Version (if any): 2.23.2-59.el7_6.1
Brief Description: Device mounting library
License(s): LGPL v2.1

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libmspack

Version (if any): 0.5-0.6.alpha.el7
Brief Description: Library for CAB and related files compression and decompression
License(s): LGPL v2.0
Link: http://www.cabextract.org.uk/libmspack/

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libndp

Version (if any): 1.2-7.el7
Brief Description: Library for Neighbor Discovery Protocol
License(s): LGPL v2.1
Link: http://www.libndp.org/

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libnet

Version (if any): 1.1.6-7.el7
Brief Description: C library for portable packet creation and injection
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libnetfilter_conntrack

Version (if any): 1.0.6-1.el7_3
Brief Description: Netfilter conntrack userspace library
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Link: http://netfilter.org

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Version (if any): 1.0.1-4.el7  
Brief Description: Netfilter netlink userspace library  
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Link: http://netfilter.org

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libnl3

Version (if any): 3.2.28-4.el7  
Brief Description: Convenience library for kernel netlink sockets  
License(s): LGPL v2.0  
Link: http://www.infradead.org/~tgr/libnl/

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libnl3-cli

Version (if any): 3.2.28-4.el7  
Brief Description: Command line interface utils for libnl3  
License(s): LGPL v2.0  
Link: http://www.infradead.org/~tgr/libnl/

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libpcap

Version (if any): 14:1.5.3-11.el7  
Brief Description: A system-independent interface for user-level packet capture  
License(s): BSD  
Link: http://www.tcpdump.org

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libpciaccess

Version (if any): 0.14-1.el7
Brief Description: PCI access library
License(s): MIT
Link: http://gitweb.freedesktop.org/?p=xorg/lib/libpciaccess.git

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libpipeline

Version (if any): 1.2.3-3.el7
Brief Description: A pipeline manipulation library
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Link: http://libpipeline.nongnu.org/

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libpng

Version (if any): 2.1.5.13-7.el7_2
Brief Description: A library of functions for manipulating PNG image format files
License(s): zlib License
Link: http://www.libpng.org/pub/png/

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```
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Glenn Randers-Pehrson  
glennrp at users.sourceforge.net  
September 27, 2012

libpwquality
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Version (if any): 1.2.3-5.el7
Brief Description: A library for password generation and password quality checking
License(s): GPL v2.0 or BSD, BSD selected
Link: https://github.com/libpwquality/libpwquality/

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libselinux

Version (if any): 2.5-14.1.el7
Brief Description: SELinux library and simple utilities
License(s): Public Domain
Link: https://github.com/SELinuxProject/selinux/wiki
### libselinux-python

**Version (if any):** 2.5-14.1.el7  
**Brief Description:** SELinux python bindings for libselinux  
**License(s):** Public Domain  
**Link:** https://github.com/SELinuxProject/selinux/wiki

### libselinux-utils

**Version (if any):** 2.5-14.1.el7  
**Brief Description:** SELinux libselinux utilities  
**License(s):** Public Domain  
**Link:** https://github.com/SELinuxProject/selinux/wiki

### libsemanage

**Version (if any):** 2.5-14.el7  
**Brief Description:** SELinux binary policy manipulation library  
**License(s):** LGPL v2.1  
**Link:** https://github.com/SELinuxProject/selinux/wiki  

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### libsepol

**Version (if any):** 2.5-10.el7  
**Brief Description:** SELinux binary policy manipulation library  
**License(s):** LGPL v2.1  
**Link:** https://github.com/SELinuxProject/selinux/wiki  

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### libSM

**Version (if any):** 1.2.2-2.el7  
**Brief Description:** X.Org X11 SM runtime library  
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libsmartcols

Version (if any): 2.23.2-59.el7_6.1
Brief Description: Formatting library for Is-like programs.
License(s): LGPL v2.1
Link: https://github.com/karelzak/util-linux/tree/master/libsmartcols

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libss

Version (if any): 1.42.9-13.el7
Brief Description: Command line interface parsing library
License(s): MIT
Link: http://e2fsprogs.sourceforge.net/

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libssh2

Version (if any): 1.4.3-12.el7_6.2
Brief Description: A library implementing the SSH2 protocol
License(s): BSD
Link: http://www.libssh2.org/

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libstdc++

Version (if any): 4.8.5-36.el7_6.2
Brief Description: GNU Standard C++ Library
License(s): GPL v3.0 with Runtime Library Exception, GPL v2.0 and LGPL v2.1
Link: http://gcc.gnu.org

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libsysfs

Version (if any): 2.1.0-16.el7
Brief Description: Shared library for interfacing with sysfs
License(s): LGPL v2.1
Link: http://sourceforge.net/projects/linux-diag/
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libtasn1

Version (if any): 4.10-1.el7
Brief Description: The ASN.1 library used in GNUTLS
License(s): GPL v3.0 and LGPL v2.1+
Link: http://www.gnu.org/software/libtasn1/

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libteam

**Version (if any):** 1.27-5.el7  
**Brief Description:** Library for controlling team network device  
**License(s):** LGPL v2.1  
**Link:** http://www.libteam.org

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libthai

**Version (if any):** 0.1.14-9.el7  
**Brief Description:** Thai language support routines  
**License(s):** LGPL v2.1  
**Link:** http://linux.thai.net

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libtiff

**Version (if any):** 4.0.3-27.el7_3  
**Brief Description:** Library of functions for manipulating TIFF format image files  
**License(s):** LibTiff License  
**Link:** http://www.remotesensing.org/libtiff/

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libtool-ltdl

Version (if any): 2.4.2-22.el7_3
Brief Description: Runtime libraries for GNU Libtool Dynamic Module Loader
License(s): LGPL v2.1
Link: http://www.gnu.org/software/libtool/

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libunistring

Version (if any): 0.9.3-9.el7
Brief Description: GNU Unicode string library
License(s): LGPL v3.0
Link: http://www.gnu.org/software/libunistring/

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libuser

Version (if any): 0.60-9.el7
Brief Description: A user and group account administration library
License(s): LGPL v2.1
Link: https://fedorahosted.org/libuser/

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libutempter

Version (if any): 1.1.6-4.el7
Brief Description: A privileged helper for utmp/wtmp updates
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libuuid

Version (if any): 2.23.2-59.el7_6.1
Brief Description: Universally unique ID library
License(s): BSD

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libverto

Version (if any): 0.2.5-4.el7
Brief Description: Main loop abstraction library
License(s): MIT
Link: https://fedorahosted.org/libverto/

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libwayland-client

Version (if any): 1.15.0-1.el7
Brief Description: Wayland client library
License(s): MIT
Link: http://wayland.freedesktop.org/

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libwayland-server

Version (if any): 1.15.0-1.el7
Brief Description: Wayland server library
License(s): MIT
Link: http://wayland.freedesktop.org/

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libX11

Version (if any): 1.6.5-2.el7
Brief Description: Core X11 protocol client library
License(s): MIT
Link: http://www.x.org

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libX11-common

Version (if any): 1.6.5-2.el7
Brief Description: Common data for libX11
License(s): MIT
Link: http://www.x.org

See libX11, above.

libXau

Version (if any): 1.0.8-2.1.el7
Brief Description: Sample Authorization Protocol for X
License(s): MIT
Link: http://www.x.org

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| libXcomposite |

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Version (if any): 0.4.4-4.1.el7
Brief Description: X Composite Extension library
License(s): MIT
Link: http://www.x.org

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libXcursor
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Version (if any): 1.1.15-1.el7
Brief Description: Cursor management library
License(s): MIT
Link: http://www.x.org

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libXdamage

Version (if any): 1.1.4-4.1.el7
Brief Description: X Damage extension library
License(s): MIT
Link: http://www.x.org

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libXext

Version (if any): 1.3.3-3.el7
Brief Description: X.Org X11 libXext runtime library
License(s): MIT
Link: http://www.x.org


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libXfixes

Version (if any): 5.0.3-1.el7
Brief Description: X Fixes library
License(s): MIT
Link: http://www.x.org

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libXft

Version (if any): 2.3.2-2.el7
Brief Description: X.Org X11 libXft runtime library
License(s): MIT
Link: http://www.x.org

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libXi

Version (if any): 1.7.9-1.el7
Brief Description: X.Org X11 libXi runtime library
License(s): MIT
Link: http://www.x.org

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libXinerama

Version (if any): 1.1.3-2.1.el7
Brief Description: X.Org X11 libXinerama runtime library
License(s): MIT
Link: http://www.x.org

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libxml2

Version (if any): 2.9.1-6.el7_2.3
Brief Description: Library providing XML and HTML support
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Link: http://xmlsoft.org/

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libXrandr

Version (if any): 1.5.1-2.el7
Brief Description: X.Org X11 libXrandr runtime library
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Link: http://www.x.org

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libXrender

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libxshmfence

**Version (if any):** 1.2-1.el7  
**Brief Description:** X11 shared memory fences  
**License(s):** MIT  
**Link:** http://www.x.org/

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libxslt

**Version (if any):** 1.1.28-5.el7  
**Brief Description:** Library providing the Gnome XSLT engine  
**License(s):** MIT  
**Link:** http://xmlsoft.org/XSLT/

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libXtst

Version (if any): 1.2.3-1.el7
Brief Description: X.Org X11 libXtst runtime library
License(s): MIT
Link: http://www.x.org

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**libXxf86vm**

**Version (if any):** 1.1.4-1.el7  
**Brief Description:** X.Org X11 libXxf86vm runtime library  
**License(s):** MIT  
**Link:** http://www.x.org

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**linux-firmware**

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**Brief Description:** Firmware files used by the Linux kernel  
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Firmware provided by Pierrick Hascoet <pierrick.hascoet@abiliss.com> to Devin Heitmueller <dheitmueller@kernellabs.com> on January 15, 2010.

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agere_sta_fw.bin -- 9.48 Hermes I
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Fast discrete Fourier and cosine transforms and inverses
author: Monty <xiphmont@mit.edu>
modifications by: Monty
last modification date: Jul 1 1996

/* These Fourier routines were originally based on the Fourier routines of the same names from the NETLIB bihar and fftpack fortran libraries developed by Paul N. Swarztrauber at the National Center for Atmospheric Research in Boulder, CO USA. They have been reimplemented in C and optimized in a few ways for OggSquish. */

/* As the original fortran libraries are public domain, the C Fourier routines in this file are hereby released to the public domain as well. The C routines here produce output exactly equivalent to the original fortran routines. Of particular interest are the facts that (like the original fortran), these routines can work on arbitrary length vectors that need not be powers of two in length. */

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Chelsio Communication Terminator 4/5 ethernet controller firmware

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The README file from the original package from Micronas appears below. Only the part about the firmware redistribution in section 0 is relevant, all other sections are completely obsolete.

---------------------------------------------------------------------
WIS GO7007SB Public Linux Driver
---------------------------------------------------------------------
0. OVERVIEW AND LICENSING/DISCLAIMER

This driver kit contains Linux drivers for the WIS GO7007SB multi-format video encoder. Only kernel version 2.6.x is supported. The video stream is available through the Video4Linux2 API and the audio stream is available through the ALSA API (or the OSS emulation layer of the ALSA system).

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1. SYSTEM REQUIREMENTS

This driver requires Linux kernel 2.6. Kernel 2.4 is not supported. Using kernel 2.6.10 or later is recommended, as earlier kernels are known to have unstable USB 2.0 support.

A fully built kernel source tree must be available. Typically this will be linked from "/lib/modules/<KERNEL VERSION>/build" for convenience. If this link does not exist, an extra parameter will need to be passed to the `make` command.

All vendor-built kernels should already be configured properly. However, for custom-built kernels, the following options need to be enabled in the kernel as built-in or modules:

- `CONFIG_HOTPLUG` - Support for hot-pluggable devices
- `CONFIG_MODULES` - Enable loadable module support
- `CONFIG_KMOD` - Automatic kernel module loading
- `CONFIG_FW_LOADER` - Hotplug firmware loading support
Additionally, to use the example application, the following options need to be enabled in the ALSA section:

   CONFIG_SND_MIXER_OSS - OSS Mixer API
   CONFIG_SND_PCM_OSS - OSS PCM (digital audio) API

The hotplug scripts, along with the fxload utility, must also be installed. These scripts can be obtained from <http://linux-hotplug.sourceforge.net/>. Hotplugging is used for loading firmware into the Cypruss EZ-USB chip using fxload and for loading firmware into the driver using the firmware agent.

2. COMPILING AND INSTALLING THE DRIVER

Most users should be able to compile the driver by simply running:

   $ make

in the top-level directory of the driver kit. First the kernel modules will be built, followed by the example applications.

If the build system is unable to locate the kernel source tree for the currently-running kernel, or if the module should be built for a kernel other than the currently-running kernel, an additional parameter will need to be passed to make to specify the appropriate kernel source directory:

   $ make KERNELSRC=/usr/src/linux-2.6.10-custom3

Once the compile completes, the driver and firmware files should be installed by running:

   $ make install

The kernel modules will be placed in "/lib/modules/<KERNEL VERSION>/extra" and the firmware files will be placed in the appropriate hotplug firmware directory, usually /lib/firmware. In addition, USB maps and scripts will be placed in /etc/hotplug/usb to enable fxload to initialize the EZ-USB control chip when the device is connected.

3. PAL/SECAM TUNER CONFIGURATION (TV402U-EU only)
The PAL model of the Plextor ConvertX TV402U may require additional configuration to correctly select the appropriate TV frequency band and audio subchannel.

Users with a device other than the Plextor ConvertX TV402U-EU should skip this section.

The wide variety of PAL TV systems used in Europe requires that additional information about the local TV standards be passed to the driver in order to properly tune TV channels. The two necessary parameters are (a) the PAL TV band, and (b) the audio subchannel format in use.

In many cases, the appropriate TV band selection is passed to the driver from applications. However, in some cases, the application only specifies that the driver should use PAL but not the specific information about the appropriate TV band. To work around this issue, the correct TV band may be specified in the "force_band" parameter to the wis-sony-tuner module:

```
<table>
<thead>
<tr>
<th>TV band</th>
<th>force_band</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAL B/G</td>
<td>B</td>
</tr>
<tr>
<td>PAL I</td>
<td>I</td>
</tr>
<tr>
<td>PAL D/K</td>
<td>D</td>
</tr>
<tr>
<td>SECAM L</td>
<td>L</td>
</tr>
</tbody>
</table>
```

If the "force_band" parameter is specified, the driver will ignore any TV band specified by applications and will always use the band provided in the module parameter.

The other parameter that can be specified is the audio subchannel format. There are several stereo audio carrier systems in use, including NICAM and three varieties of A2. To receive audio broadcast on one of these stereo carriers, the "force_mpx_mode" parameter must be specified to the wis-sony-tuner module:

```
<table>
<thead>
<tr>
<th>TV band</th>
<th>Audio subcarrier</th>
<th>force_mpx_mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAL B/G</td>
<td>Mono (default)</td>
<td>1</td>
</tr>
<tr>
<td>PAL B/G</td>
<td>A2</td>
<td>2</td>
</tr>
<tr>
<td>PAL B/G</td>
<td>NICAM</td>
<td>3</td>
</tr>
<tr>
<td>PAL I</td>
<td>Mono (default)</td>
<td>4</td>
</tr>
<tr>
<td>PAL I</td>
<td>NICAM</td>
<td>5</td>
</tr>
<tr>
<td>PAL D/K</td>
<td>Mono (default)</td>
<td>6</td>
</tr>
<tr>
<td>PAL D/K</td>
<td>A2 (1)</td>
<td>7</td>
</tr>
<tr>
<td>PAL D/K</td>
<td>A2 (2)</td>
<td>8</td>
</tr>
<tr>
<td>PAL D/K</td>
<td>A2 (3)</td>
<td>9</td>
</tr>
<tr>
<td>PAL D/K</td>
<td>NICAM</td>
<td>10</td>
</tr>
<tr>
<td>SECAM L</td>
<td>Mono (default)</td>
<td>11</td>
</tr>
<tr>
<td>SECAM L</td>
<td>NICAM</td>
<td>12</td>
</tr>
</tbody>
</table>
```

If the "force_mpx_mode" parameter is not specified, the correct mono-only mode will be chosen based on the TV band. However, the tuner will not
receive stereo audio or bilingual broadcasts correctly.

To pass the "force_band" or "force_mpx_mode" parameters to the wis-sony-tuner module, the following line must be added to the modprobe configuration file, which varies from one Linux distribution to another.

```
options wis-sony-tuner force_band=B force_mpx_mode=2
```

The above example would force the tuner to the PAL B/G TV band and receive stereo audio broadcasts on the A2 carrier.

To verify that the configuration has been placed in the correct location, execute:

```
$ modprobe -c | grep wis-sony-tuner
```

If the configuration line appears, then modprobe will pass the parameters correctly the next time the wis-sony-tuner module is loaded into the kernel.

4. TESTING THE DRIVER

Because few Linux applications are able to correctly capture from Video4Linux2 devices with only compressed formats supported, the new driver should be tested with the "gorecord" application in the apps/ directory.

First connect a video source to the device, such as a DVD player or VCR. This will be captured to a file for testing the driver. If an input source is unavailable, a test file can still be captured, but the video will be black and the audio will be silent.

This application will auto-detect the V4L2 and ALSA/OSS device names of the hardware and will record video and audio to an AVI file for a specified number of seconds. For example:

```
$ apps/gorecord -duration 60 capture.avi
```

If this application does not successfully record an AVI file, the error messages produced by gorecord and recorded in the system log (usually in /var/log/messages) should provide information to help resolve the problem.

Supplying no parameters to gorecord will cause it to probe the available devices and exit. Use the -help flag for usage information.

5. USING THE DRIVER

The V4L2 device implemented by the driver provides a standard compressed format API, within the following criteria:
* Applications that only support the original Video4Linux1 API will not be able to communicate with this driver at all.

* No raw video modes are supported, so applications like xawtv that expect only uncompressed video will not function.

* Supported compression formats are: Motion-JPEG, MPEG1, MPEG2 and MPEG4.

* MPEG video formats are delivered as Video Elementary Streams only. Program Stream (PS), Transport Stream (TS) and Packetized Elementary Stream (PES) formats are not supported.

* Video parameters such as format and input port may not be changed while the encoder is active.

* The audio capture device only functions when the video encoder is actively capturing video. Attempts to read from the audio device when the encoder is inactive will result in an I/O error.

* The native format of the audio device is 48Khz 2-channel 16-bit little-endian PCM, delivered through the ALSA system. No audio compression is implemented in the hardware. ALSA may convert to other uncompressed formats on the fly.

The include/ directory contains a C header file describing non-standard features of the GO7007SB encoder, which are described below:

GO7007IOC_S_COMP_PARAMS, GO7007IOC_G_COMP_PARAMS

These ioctls are used to negotiate general compression parameters.

To query the current parameters, call the GO7007IOC_G_COMP_PARAMS ioctl with a pointer to a struct go7007_comp_params. If the driver is not set to MPEG format, the EINVAL error code will be returned.

To change the current parameters, initialize all fields of a struct go7007_comp_params and call the GO7007_IOC_S_COMP_PARAMS ioctl with a pointer to this structure. The driver will return the current parameters with any necessary changes to conform to the limitations of the hardware or current compression mode. Any or all fields can be set to zero to request a reasonable default value. If the driver is not set to MPEG format, the EINVAL error code will be returned. When I/O is in progress, the EBUSY error code will be returned.

Fields in struct go7007_comp_params:

```c
__u32 gop_size
```

The maximum number of frames in each Group Of Pictures; i.e. the maximum number of frames minus one between each key frame.
__u32 max_b_frames
              The maximum number of sequential bidirectionally-predicted frames.
              (B-frames are not yet supported.)

enum go7007_aspect_ratio The aspect ratio to be encoded in the aspect_ratio meta-data of the compressed format.

Choices are:
    GO7007_ASPECT_RATIO_1_1
    GO7007_ASPECT_RATIO_4_3_NTSC
    GO7007_ASPECT_RATIO_4_3_PAL
    GO7007_ASPECT_RATIO_16_9_NTSC
    GO7007_ASPECT_RATIO_16_9_PAL

__u32 flags
              Bit-wise OR of control flags (below)

Flags in struct go7007_comp_params:

    GO7007_COMP_CLOSED_GOP       Only produce self-contained GOPs, used to produce streams appropriate for random seeking.

    GO7007_COMP_OMIT_SEQ_HEADER Omit the stream sequence header.

GO7007IOC_S_MPEG_PARAMS, GO7007IOC_G_MPEG_PARAMS

These ioctls are used to negotiate MPEG-specific stream parameters when the pixelformat has been set to V4L2_PIX_FMT_MPEG.

To query the current parameters, call the GO7007IOC_G_MPEG_PARAMS ioctl with a pointer to a struct go7007_mpeg_params. If the driver is not set to MPEG format, the EINVAL error code will be returned.

To change the current parameters, initialize all fields of a struct go7007_mpeg_params and call the GO7007_IOC_S_MPEG_PARAMS ioctl with a pointer to this structure. The driver will return the current parameters with any necessary changes to conform to the limitations of the hardware or selected MPEG mode. Any or all fields can be set to zero to request a reasonable default value. If the driver is not set to MPEG format, the EINVAL error code will be returned. When I/O is in progress, the EBUSY error code will be returned.

Fields in struct go7007_mpeg_params:

    enum go7007_mpeg_video_standard mpeg_video_standard The MPEG video standard in which to compress the video.

    Choices are:
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GO7007_MPEG_VIDEO_MPEG1
GO7007_MPEG_VIDEO_MPEG2
GO7007_MPEG_VIDEO_MPEG4

__u32 flags

Bit-wise OR of control flags (below)

__u32 pali

The profile and level indication to be stored in the sequence header. This is only used as an indicator to the decoder, and does not affect the MPEG features used in the video stream. Not valid for MPEG1.

Choices for MPEG2 are:
GO7007_MPEG2_PROFILE_MAIN_MAIN

Choices for MPEG4 are:
GO7007_MPEG4_PROFILE_S_L0
GO7007_MPEG4_PROFILE_S_L1
GO7007_MPEG4_PROFILE_S_L2
GO7007_MPEG4_PROFILE_S_L3
GO7007_MPEG4_PROFILE_ARTS_L1
GO7007_MPEG4_PROFILE_ARTS_L2
GO7007_MPEG4_PROFILE_ARTS_L3
GO7007_MPEG4_PROFILE_ARTS_L4
GO7007_MPEG4_PROFILE_AS_L0
GO7007_MPEG4_PROFILE_AS_L1
GO7007_MPEG4_PROFILE_AS_L2
GO7007_MPEG4_PROFILE_AS_L3
GO7007_MPEG4_PROFILE_AS_L4
GO7007_MPEG4_PROFILE_AS_L5

Flags in struct go7007_mpeg_params:

GO7007_MPEG_FORCE_DVD_MODE Force all compression parameters and bitrate control settings to comply with DVD MPEG2 stream requirements. This overrides most compression and bitrate settings!

GO7007_MPEG_OMIT_GOP_HEADER Omit the GOP header.

GO7007_MPEG_REPEAT_SEQHEADER Repeat the MPEG sequence header at the start of each GOP.

GO7007IOC_S_BITRATE, GO7007IOC_G_BITRATE

These ioctlS are used to set and query the target bitrate value for the compressed video stream. The bitrate may be selected by storing the target bits per second in an int and calling GO7007IOC_S_BITRATE with a
Pointer to the int. The bitrate may be queried by calling GO7007IOC_G_BITRATE with a pointer to an int where the current bitrate will be stored.

Note that this is the primary means of controlling the video quality for all compression modes, including V4L2_PIX_FMT_MJPEG. The VIDIOC_S_JPEGCOMP ioctl is not supported.

-----------------------------------------------
Installing the WIS PCI Voyager Driver
-----------------------------------------------

The WIS PCI Voyager driver requires several patches to the Linux 2.6.11.x kernel source tree before compiling the driver. These patches update the in-kernel SAA7134 driver to the newest development version and patch bugs in the TDA8290/TDA8275 tuner driver.

The following patches must be downloaded from Gerd Knorr's website and applied in the order listed:

http://dl.bytesex.org/patches/2.6.11-2/i2c-tuner
http://dl.bytesex.org/patches/2.6.11-2/i2c-tuner2
http://dl.bytesex.org/patches/2.6.11-2/v4l2-api-mpeg
http://dl.bytesex.org/patches/2.6.11-2/saa7134-update

The following patches are included with this SDK and can be applied in any order:

patches/2.6.11/saa7134-voyager.diff
patches/2.6.11/tda8275-newaddr.diff
patches/2.6.11/tda8290-ntsc.diff

Check to make sure the CONFIG_VIDEO_SAA7134 option is enabled in the kernel configuration, and build and install the kernel.

After rebooting into the new kernel, the GO7007 driver can be compiled and installed:

$ make SAA7134_BUILD=y
$ make install
$ modprobe saa7134-go7007

There will be two V4L video devices associated with the PCI Voyager. The first device (most likely /dev/video0) provides access to the raw video capture mode of the SAA7133 device and is used to configure the source video parameters and tune the TV tuner. This device can be used with xawtv or other V4L(2) video software as a standard uncompressed device.

The second device (most likely /dev/video1) provides access to the compression functions of the GO7007. It can be tested using the gorecord application in the apps/ directory of this SDK:
$ apps/gorecord -vdevice /dev/video1 -noaudio test.avi

Currently the frame resolution is fixed at 720x480 (NTSC) or 720x576 (PAL), and the video standard must be specified to both the raw and the compressed video devices (xawtv and gorecord, for example).

---

RELEASE NOTES FOR WIS GO7007SB LINUX DRIVER

Last updated: 5 November 2005

- Release 0.9.7 includes new support for using udev to run fxload. The install script should automatically detect whether the old hotplug scripts or the new udev rules should be used. To force the use of hotplug, run "make install USE_UDEV=n". To force the use of udev, run "make install USE_UDEV=y".

- Motion detection is supported but undocumented. Try the `modet` app for a demonstration of how to use the facility.

- Using USB2.0 devices such as the TV402U with USB1.1 HCDs or hubs can cause buffer overruns and frame drops, even at low framerates, due to inconsistency in the bitrate control mechanism.

- On devices with an SAA7115, including the Plextor ConvertX, video height values of 96, 128, 160, 192, 256, 320, and 384 do not work in NTSC mode. All valid heights up to 512 work correctly in PAL mode.

- The WIS Star Trek and PCI Voyager boards have no support yet for audio or the TV tuner.

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Firmware provided as part of an XC4000 Linux developers kit by Brian Mathews <bmathews@xceive.com> to Devin Heitmueller <dheitmueller@kernellabs.org> on July 1, 2009.

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Firmware provided as part of an XC5000 Linux developers kit by Brian
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Firmware provided as part of an XC5000C Linux developers kit by Ramon Cazares
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lksctp-tools

Version (if any): 1.0.17-2.el7
Brief Description: User-space access to Linux Kernel SCTP
License(s): GPL v2.0 and LGPL v2.1
Link: http://lksctp.sourceforge.net

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Im_sensors-libs

Version (if any): 3.4.0-6.20160601git9185e5.el7
Brief Description: Lm_sensors core libraries
License(s): GPL v2.0 and LGPL v2.1
Link: http://github.com/groeck/lm-sensors/

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logrotate

Version (if any): 3.8.6-17.el7
Brief Description: Rotates, compresses, removes and mails system log files
License(s): GPL v2.0
Link: https://github.com/logrotate/logrotate

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lshw

Version (if any): B.02.18-12.el7
Brief Description: HardWare LiSter
License(s): GPL v2.0
Link: http://ezix.org/project/wiki/HardwareLiSter

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lsscsi

Version (if any): 0.27-6.el7
Brief Description: List SCSI devices (or hosts) and associated information
License(s): GPL v2.0
Link: http://sg.danny.cz/scsi/lsscsi.html

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lua

Version (if any): 5.1.4-15.el7
Brief Description: Powerful light-weight programming language
License(s): MIT
Link: http://www.lua.org/

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LuaJIT

Version (if any): 2.0.4-3.el7
Brief Description: Just-In-Time Compiler for Lua
License(s): MIT
Link: http://luajit.org/

LuaJIT -- a Just-In-Time Compiler for Lua. http://luajit.org/

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lua-nginx-module

Version (if any): v0.0.8
Brief Description: Embed the power of Lua into Nginx HTTP Servers.
License(s): BSD
Link: https://github.com/openresty/lua-nginx-module

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lvm2

Version (if any): 7:2.02.180-10.el7_6.7
Brief Description: Userland logical volume management tools
License(s): GPL v2.0
Link: http://sources.redhat.com/lvm2

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lvm2-libs

Version (if any): 7:2.02.180-10.el7_6.7
Brief Description: Shared libraries for lvm2
License(s): LGPL v2.0
Link: http://sources.redhat.com/lvm2

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lz4

Version (if any): 1.7.5-2.el7
Brief Description: Extremely fast compression algorithm
License(s): GPL v2.0 and BSD
Link: https://lz4.github.io/lz4/

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lzo

Version (if any): 2.06-8.el7
Brief Description: Data compression library with very fast (de)compression
License(s): GPL v2.0

Link: http://www.oberhumer.com/opensource/lzo/

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make

Version (if any): 1:3.82-23.el7
Brief Description: A GNU tool which simplifies the build process for users
License(s): GPL v2.0
Link: http://www.gnu.org/software/make/

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man-db

Version (if any): 2.6.3-11.el7
Brief Description: Tools for searching and reading man pages
License(s): GPL v2.0
Link: http://www.nongnu.org/man-db/

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mariadb-libs

Version (if any): 1:5.5.60-1.el7_5
Brief Description: The shared libraries required for MariaDB/MySQL clients
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Link: http://mariadb.org

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memcached

Version (if any): 1.5.12-1.el7.remi
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Brief Description: High Performance, Distributed Memory Object Cache
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mesa-libEGL

Version (if any): 18.0.5-4.el7_6
Brief Description: Mesa libEGL runtime libraries
License(s): MIT
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### mesa-libgbm

**Version (if any):** 18.0.5-4.el7_6  
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**Link:** http://www.mesa3d.org  

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### mesa-libGL

**Version (if any):** 18.0.5-4.el7_6  
**Brief Description:** Mesa libGL runtime libraries and DRI drivers  
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**Link:** http://www.mesa3d.org  

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mesa-libglapi

**Version (if any):** 18.0.5-4.el7_6  
**Brief Description:** Mesa shared glapi  
**License(s):** MIT  
**Link:** http://www.mesa3d.org

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microcode_ctl

**Version (if any):** 2:2.1-47.4.el7_6  
**Brief Description:** Tool to transform and deploy CPU microcode update for x86.  
**License(s):** GPL v2.0
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Link: https://pagure.io/microcode_ctl

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**mozis17**

*Version (if any):* 17.0.0-20.el7  
*Brief Description:* JavaScript interpreter and libraries  
*License(s):* GPL v2.0 or LGPL v2.1 or MPL 1.1  
*Link:* [http://www.mozilla.org/js/](http://www.mozilla.org/js/)

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**ncurses**

*Version (if any):* 5.9-14.20130511.el7_4  
*Brief Description:* Ncurses support utilities  
*License(s):* MIT  
*Link:* [http://invisible-island.net/ncurses/ncurses.html](http://invisible-island.net/ncurses/ncurses.html)

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ncurses-base

Version (if any): 5.9-14.20130511.el7_4  
Brief Description: Descriptions of common terminals  
License(s): MIT  
Link: http://invisible-island.net/ncurses/ncurses.html

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ncurses-libs

Version (if any): 5.9-14.20130511.el7_4  
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net-snmp

Version (if any): 1:5.7.2-37.el7
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Link: http://net-snmp.sourceforge.net/

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<th>Version (if any)</th>
<th>Brief Description</th>
<th>License(s)</th>
<th>Link</th>
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<tr>
<td>net-snmp-agent-libs</td>
<td>1:5.7.2-37.el7</td>
<td>The NET-SNMP runtime agent libraries</td>
<td>BSD</td>
<td><a href="http://net-snmp.sourceforge.net/">http://net-snmp.sourceforge.net/</a></td>
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<td>See net-snmp, above.</td>
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<td>net-snmp-libs</td>
<td>1:5.7.2-37.el7</td>
<td>The NET-SNMP runtime client libraries</td>
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<td>net-tools</td>
<td>2.0-0.24.20131004git.el7</td>
<td>Basic networking tools</td>
<td>GPL v2.0</td>
<td><a href="http://sourceforge.net/projects/net-tools/">http://sourceforge.net/projects/net-tools/</a></td>
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<td>See Open Source Licenses below for complete copy of the GPL v2.0 license.</td>
</tr>
<tr>
<td>NetworkManager</td>
<td>1:1.12.0-10.el7_6</td>
<td>Network connection manager and user applications</td>
<td>GPL v2.0</td>
<td><a href="http://www.gnome.org/projects/NetworkManager/">http://www.gnome.org/projects/NetworkManager/</a></td>
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<td>See Open Source Licenses below for complete copy of the GPL v2.0 license.</td>
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NetworkManager-libnm

Version (if any): 1:1.12.0-10.el7_6
Brief Description: Libraries for adding NetworkManager support to applications (new API).
License(s): GPL v2.0
Link: http://www.gnome.org/projects/NetworkManager/

See Open Source Licenses below for complete copy of the GPL v2.0 license.

NetworkManager-team

Version (if any): 1:1.12.0-10.el7_6
Brief Description: Team device plugin for NetworkManager
License(s): GPL v2.0
Link: http://www.gnome.org/projects/NetworkManager/

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NetworkManager-tui

Version (if any): 1:1.12.0-10.el7_6
Brief Description: NetworkManager curses-based UI
License(s): GPL v2.0
Link: http://www.gnome.org/projects/NetworkManager/

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newt

Version (if any): 0.52.15-4.el7
Brief Description: A library for text mode user interfaces
License(s): LGPL v2.0
Link: https://fedorahosted.org/newt/

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newt-python
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Version (if any): 0.52.15-4.el7
Brief Description: Python bindings for newt
License(s): LGPL v2.0
Link: https://fedorahosted.org/newt/

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nmap-ncat

Version (if any): 2:6.40-16.el7
Brief Description: Nmap's Netcat replacement
License(s): GPL v2.0 and Nmap License
Link: http://nmap.org/

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nspr

Version (if any): 4.19.0-1.el7_5
Brief Description: Netscape Portable Runtime
License(s): MPL 2.0
Link: http://www.mozilla.org/projects/nspr/

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nss

Version (if any): 3.36.0-7.1.el7_6
Brief Description: Network Security Services
License(s): MPL 2.0
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Link: http://www.mozilla.org/projects/security/pki/nss/

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**nss-pem**

**Version (if any):** 1.0.3-5.el7_6.1  
**Brief Description:** PEM file reader for Network Security Services (NSS)  
**License(s):** MPL 1.1  
**Link:** https://github.com/kdudka/nss-pem

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**nss-softokn**

**Version (if any):** 3.36.0-5.el7_5  
**Brief Description:** Network Security Services Softoken Module  
**License(s):** MPL 2.0  
**Link:** http://www.mozilla.org/projects/security/pki/nss/

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**nss-softokn-freebl**

**Version (if any):** 3.36.0-5.el7_5  
**Brief Description:** Freebl library for the Network Security Services  
**License(s):** MPL 2.0  
**Link:** http://www.mozilla.org/projects/security/pki/nss/

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**nss-sysinit**

**Version (if any):** 3.36.0-7.1.el7_6  
**Brief Description:** System NSS Initialization  
**License(s):** MPL 2.0  
**Link:** http://www.mozilla.org/projects/security/pki/nss/

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nss-tools

Version (if any): 3.36.0-7.1.el7_6
Brief Description: Tools for the Network Security Services
License(s): MPL 2.0
Link: http://www.mozilla.org/projects/security/pki/nss/

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nss-util

Version (if any): 3.36.0-1.1.el7_6
Brief Description: Network Security Services Utilities Library
License(s): MPL 2.0
Link: http://www.mozilla.org/projects/security/pki/nss/

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ntp

Version (if any): 4.2.6p5-28.el7.centos
Brief Description: The NTP daemon and utilities
License(s): MIT
Link: http://www.ntp.org

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ntupdate

Version (if any): 4.2.6p5-28.el7.centos
Brief Description: Utility to set the date and time via NTP
License(s): MIT
Link: http://www.ntp.org
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**numactl-libs**

**Version (if any):** 2.0.9-7.el7  
**Brief Description:** libnuma libraries  
**License(s):** LGPL v2.0 and GPL v2.0  
**Link:** URL

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**openldap**

**Version (if any):** 2.4.44-21.el7_6  
**Brief Description:** LDAP support libraries  
**License(s):** BSD, BSD-style, ISC, MIT, and PHP License  
**Link:** http://www.openldap.org/

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openssh

Version (if any): 7.4p1-16.el7
Brief Description: An open source implementation of SSH protocol versions 1 and 2
License(s): OpenSSH License
Link: http://www.openssh.com/portable.html

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- Zlib is now external, in a library
- The make-ssh-known-hosts script is no longer included
- TSS has been removed
- MD5 is now external, in the OpenSSL library
- RC4 support has been replaced with ARC4 support from OpenSSL
- Blowfish is now external, in the OpenSSL library

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@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>

@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>

@author Paulo Barreto <paulo.barreto@terra.com.br>

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openssh-clients

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<th>Version (if any):</th>
<th>7.4p1-16.el7</th>
</tr>
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<tbody>
<tr>
<td>Brief Description:</td>
<td>An open source SSH client applications</td>
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<td>OpenSSH License</td>
</tr>
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<td>Link:</td>
<td><a href="http://www.openssh.com/portable.html">http://www.openssh.com/portable.html</a></td>
</tr>
</tbody>
</table>

See openssh, above.

openssh-server

| Version (if any):    | 7.4p1-16.el7 |

See openssh, above.
**Okta Access Gateway**
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**Brief Description:** An open source SSH server daemon

**License(s):** OpenSSH License

**Link:** http://www.openssh.com/portable.html

See openssh, above.

---

**openssl**

**Version (if any):** 1:1.0.2k-16.el7_6.1

**Brief Description:** Utilities from the general purpose cryptography library with TLS implementation

**License(s):** OpenSSL License and SSLeay License

**Link:** http://www.openssl.org/

---

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_schedule

openssl

**Version (if any):** 1:1.0.2k-16.el7_6.1
**Brief Description:** A general purpose cryptography library with TLS implementation
**License(s):** OpenSSL License and SSLeay License
**Link:** http://www.openssl.org/

See openssl, above.

open-vm-tools

**Version (if any):** 10.2.5-3.el7
**Brief Description:** Open Virtual Machine Tools for virtual machines hosted on VMware
**License(s):** GPL v2.0
**Link:** https://github.com/vmware/open-vm-tools

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open-vpn

**Version (if any):** 2.4.6-1.el7
**Brief Description:** A full-featured SSL VPN solution
**License(s):** GPL v2.0
**Link:** https://community.openvpn.net/

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os-prober

**Version (if any):** 1.58-9.el7
**Brief Description:** Probes disks on the system for installed operating systems.
**License(s):** GPL v2.0
**Link:** http://kitenet.net/~joey/code/os-prober/
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p11-kit

Version (if any): 0.23.5-3.el7  
Brief Description: Library for loading and sharing PKCS#11 modules  
License(s): BSD  
Link: http://p11-glue.freedesktop.org/p11-kit.html

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p11-kit-trust

Version (if any): 0.23.5-3.el7  
Brief Description: System trust module from p11-kit  
License(s): BSD  
Link: http://p11-glue.freedesktop.org/p11-kit.html

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**pam**

**Version (if any):** 1.1.8-22.el7  
**Brief Description:** An extensible library which provides authentication for applications  
**License(s):** GPL v2.0 or BSD, BSD selected  
**Link:** http://www.linux-pam.org/

**Copyright:**

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pango

Version (if any):  1.42.4-2.el7_6
Brief Description: System for layout and rendering of internationalized text
License(s):      LGPL v2.1
Link:            http://www.pango.org

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parted

Version (if any):  3.1-29.el7
Brief Description: The GNU disk partition manipulation program
License(s):      GPL v3.0
Link:            http://www.gnu.org/software/parted

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passwd

Version (if any):  0.79-4.el7
Brief Description: An utility for setting or changing passwords using PAM
License(s):      GPL v2.0 or BSD, BSD selected
Link:            http://fedorahosted.org/passwd


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**patch**

Version (if any): 2.7.1-10.el7_5  
Brief Description: Utility for modifying/upgrading files  
License(s): GPL v3.0  
Link: http://www.gnu.org/software/patch/patch.html

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---

**pciutils**

Version (if any): 3.5.1-3.el7  
Brief Description: PCI bus related utilities  
License(s): GPL v2.0  
Link: http://atrey.karlin.mff.cuni.cz/~mj/pciutils.shtml

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**pciutils-libs**
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Version (if any): 3.5.1-3.el7
Brief Description: Linux PCI library
License(s): GPL v2.0
Link: http://atrey.karlin.mff.cuni.cz/~mj/pclib巡.shtml

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pcre

Version (if any): 8.32-17.el7
Brief Description: Perl-compatible regular expression library
License(s): BSD
Link: http://www.pcre.org/

PCRE LICENCE

PCRE is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language.

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The basic library functions are written in C and are freestanding. Also included in the distribution is a set of C++ wrapper functions, and a just-in-time compiler that can be used to optimize pattern matching. These are both optional features that can be omitted when the library is built.

THE BASIC LIBRARY FUNCTIONS

Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk


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PCRE JUST-IN-TIME COMPILATION SUPPORT

Written by: Zoltan Herczeg
Email local part: hzmester
Email domain: freemail.hu

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STACK-LESS JUST-IN-TIME COMPILER

Written by: Zoltan Herczeg
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Email domain: freemail.hu

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THE C++ WRAPPER FUNCTIONS

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pcsc-lite-libs

Version (if any): 1.8.8-8.el7
Brief Description: PC/SC Lite libraries
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Link: http://pcsclite.alioth.debian.org/

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perl

Version (if any): 4.5.16.3-294.el7_6
Brief Description: Practical Extraction and Report Language
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Link: http://www.perl.org/


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perl-Carp

Version (if any): 1.26-244.el7
Brief Description: Alternative warn and die for modules
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Link: http://search.cpan.org/dist/Carp/

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perl-constant

Version (if any): 1.27-2.el7
Brief Description: Perl pragma to declare constants
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perl-Data-Dumper

Version (if any): 2.145-3.el7
Brief Description: Stringify perl data structures, suitable for printing and eval
License(s): GPL v2.0 or Artistic License, Artistic License selected
Link: http://search.cpan.org/dist/Data-Dumper/

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perl-Encode

Version (if any): 2.51-7.el7
Brief Description: Character encodings in Perl
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Link: http://search.cpan.org/dist/Encode/

This project was originated by Nick Ing-Simmons and later maintained by Dan Kogai <dankogai@dan.co.jp>. See AUTHORS for the full list of people involved: https://metacpan.org/source/DANKOGAI/Encode-3.01/AUTHORS

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perl-Error

Version (if any): 1.0.17020-2.el7
Brief Description: Error/exception handling in an OO-ish way
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Link: http://search.cpan.org/dist/Error/

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perl-Exporter

Version (if any): 5.68-3.el7
Brief Description: Implements default import method for modules
License(s): GPL v2.0 or Artistic License, Artistic License selected
Link: http://search.cpan.org/dist/Exporter/

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perl-File-Path

Version (if any): 2.09-2.el7
Brief Description: Create or remove directory trees
License(s): GPL v2.0 or Artistic License, Artistic License selected
Link: http://search.cpan.org/dist/File-Path/

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perl-File-Temp

Version (if any): 0.23.01-3.el7
Brief Description: Return name and handle of a temporary file safely
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Link: http://search.cpan.org/dist/File-Temp/

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perl-Filter

Version (if any): 1.49-3.el7
Brief Description: Perl source filters
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Link: http://search.cpan.org/dist/Filter/

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perl-Getopt-Long

Version (if any): 2.40-3.el7
Brief Description: Extended processing of command line options
License(s): GPL v2.0 or Artistic License, Artistic License selected
Link: http://search.cpan.org/dist/Getopt-Long/

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perl-Git

Version (if any): 1.8.3.1-20.el7
Brief Description: Perl interface to Git
License(s): GPL v2.0
Link: http://git-scm.com/

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perl-HTTP-Tiny
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Version (if any): 0.033-3.el7
Brief Description: Small, simple, correct HTTP/1.1 client
License(s): GPL v2.0 or Artistic License, Artistic License selected
Link: http://search.cpan.org/dist/HTTP-Tiny/

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perl-libs

Version (if any): 4:5.16.3-294.el7_6
Brief Description: The libraries for the perl runtime
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Link: http://www.perl.org/


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perl-macos

Version (if any): 4:5.16.3-294.el7_6
Brief Description: Macros for rpmbuild
License(s): GPL v2.0 or Artistic License, Artistic License selected
Link: http://www.perl.org/


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perl-parent

Version (if any): 1:0.225-244.el7
Brief Description: Establish an ISA relationship with base classes at compile time
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perl-PathTools

**Version (if any):** 3.40-5.el7

**Brief Description:** PathTools Perl module (Cwd, File::Spec)

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**Link:** http://search.cpan.org/dist/PathTools/

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perl-Pod-Escapes

**Version (if any):** 1:1.04-294.el7_6

**Brief Description:** Perl module for resolving POD escape sequences

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**Link:** http://www.perl.org/

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Portions of the data tables in this module are derived from the entity declarations in the W3C XHTML specification.

Currently (October 2001), that's these three:

http://www.w3.org/TR/xhtml1/DTD/xhtml-lat1.ent
http://www.w3.org/TR/xhtml1/DTD/xhtml-special.ent
http://www.w3.org/TR/xhtml1/DTD/xhtml-symbol.ent

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perl-podlators

**Version (if any):** 2.5.1-3.el7
Brief Description: Format POD source into various output formats
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Link: http://search.cpan.org/dist/podlators/


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perl-Pod-Perldoc

Version (if any): 3.20-4.el7
Brief Description: Look up Perl documentation in Pod format
License(s): GPL v2.0 or Artistic License, Artistic License selected
Link: http://search.cpan.org/dist/Pod-Perldoc/

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perl-Pod-Simple

Version (if any): 1:3.28-4.el7
Brief Description: Framework for parsing POD documentation
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Link: http://search.cpan.org/dist/Pod-Simple/

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perl-Pod-Usage

Version (if any): 1.63-3.el7
Brief Description: Print a usage message from embedded POD documentation
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Link: http://search.cpan.org/dist/Pod-Usage/

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http://www.enteract.com/~bradapp/
### perl-Scalar-List-Utils

**Version (if any):** 1.27-248.el7  
**Brief Description:** A selection of general-utility scalar and list subroutines  
**License(s):** GPL v2.0 or Artistic License, Artistic License selected  
**Link:** http://search.cpan.org/dist/Scalar-List-Utils/

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### perl-Socket

**Version (if any):** 2.010-4.el7  
**Brief Description:** Networking constants and support functions  
**License(s):** GPL v2.0 or Artistic License, Artistic License selected  
**Link:** http://search.cpan.org/dist/Socket/

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### perl-Storable

**Version (if any):** 2.45-3.el7  
**Brief Description:** Persistence for Perl data structures  
**License(s):** GPL v2.0 or Artistic License, Artistic License selected  
**Link:** http://search.cpan.org/dist/Storable/

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### perl-TermReadKey

**Version (if any):** 2.30-20.el7
### perl-Text-ParseWords

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<th>Version (if any):</th>
<th>3.29-4.el7</th>
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<td>Brief Description:</td>
<td>Parse text into an array of tokens or array of arrays</td>
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<td>GPL v2.0 or Artistic License, Artistic License selected</td>
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<tr>
<td>Link:</td>
<td><a href="http://search.cpan.org/dist/Text-ParseWords/">http://search.cpan.org/dist/Text-ParseWords/</a></td>
</tr>
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Maintainer: Alexandr Ciornii. Previous maintainer: Hal Pomeranz <pomeranz@netcom.com>, 1994-1997 (Original author unknown). Much of the code for &parse_line() (including the primary regexp) from Joerk Behrends <jbehrends@multimediaproduzenten.de>. Examples section another documentation provided by John Heidemann <johnh@ISI.EDU>.

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### perl-threads

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<td>Perl interpreter-based threads</td>
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<td>Link:</td>
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</tbody>
</table>

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### perl-threads-shared

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<td>Perl extension for sharing data structures between threads</td>
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<tr>
<td>License(s):</td>
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perl-Time-HiRes

Version (if any): 4:1.9725-3.el7
Brief Description: High resolution alarm, sleep, gettimeofday, interval timers
License(s): GPL v2.0 or Artistic License, Artistic License selected
Link: http://search.cpan.org/dist/Time-HiRes/

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perl-Time-Local

Version (if any): 1.2300-2.el7
Brief Description: Efficiently compute time from local and GMT time
License(s): GPL v2.0 or Artistic License, Artistic License selected
Link: http://search.cpan.org/dist/Time-Local/

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perl-WWW-Curl

Version (if any): 4.15-13.el7
Brief Description: Perl extension interface for libcurl
License(s): MPL v1.1 or MIT, MIT selected
Link: http://search.cpan.org/dist/WWW-Curl/

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**php-cli**

Version (if any): 7.1.24-1.el7.remi

Brief Description: Command-line interface for PHP

License(s): PHP License v3.01


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**php-common**

Version (if any): 7.1.24-1.el7.remi

Brief Description: Common files for PHP

License(s): Various, including PHP License v3.01 and MIT


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**php-fedora-autoloader**

**Version (if any):** 1.0.0-1.el7  
**Brief Description:** Fedora Autoloader  
**License(s):** MIT  
**Link:** https://github.com/php-fedora/autoloader

Copyright (c) 2015-2017 Shawn Iwinski <shawn@iwin.ski> Remi Collet <remi@fedoraproject.org>.

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**php-fpm**

**Version (if any):** 7.1.24-1.el7.remi  
**Brief Description:** PHP FastCGI Process Manager  
**License(s):** BSD  
**Link:** http://www.php.net/
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php-json

Version (if any): 7.1.24-1.el7.remi
Brief Description: PHP FastCGI Process Manager
License(s): PHP License v3.01
Link: http://www.php.net/

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php-ldap

Version (if any): 7.1.24-1.el7.remi
Brief Description: A module for PHP applications that use LDAP
License(s): PHP License v3.01
Link: http://www.php.net/

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php-mbstring

Version (if any): 7.1.24-1.el7.remi
Brief Description: A module for PHP applications which need multi-byte string handling
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Link: http://www.php.net/

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**php-mcrypt**

Version (if any): 7.1.24-1.el7.remi
Brief Description: Standard PHP module provides mcrypt library support
License(s): PHP License v3.01
Link: http://www.php.net/

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**php-mysqlnd**

Version (if any): 7.1.24-1.el7.remi
Brief Description: A module for PHP applications that use MySQL databases
License(s): PHP License v3.01
Link: http://www.php.net/

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**php-oci8**

Version (if any): 7.1.24-1.el7.remi
Brief Description: A module for PHP applications that use OCI8 databases
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Link: http://www.php.net/

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**php-opcache**

Version (if any): 7.1.24-1.el7.remi
Brief Description: Provides faster PHP execution through opcode caching and optimization
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**php-pdo**

**Version (if any):** 7.1.24-1.el7.remi  
**Brief Description:** A database access abstraction module for PHP applications  
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**Link:** http://www.php.net/

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---

**php-pecl-http**

**Version (if any):** 3.2.0-1.el7.remi.7.1  
**Brief Description:** Extended HTTP support  
**License(s):** BSD  
**Link:** http://pecl.php.net/package/pecl_http

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**php-pecl-igbinary**
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**Version (if any):**  2.0.8-1.el7.remi.7.1
**Brief Description:** Replacement for the standard PHP serializer
**License(s):** BSD
**Link:** http://pecl.php.net/package/igbinary

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**php-pecl-memcached**

**Version (if any):**  3.0.4-2.el7.remi.7.1
**Brief Description:** Extension to work with the Memcached caching daemon
**License(s):** PHP License v3.01
**Link:** http://pecl.php.net/package/memcached

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**php-pecl-msgpack**

**Version (if any):**  2.0.2-1.el7.remi.7.1
**Brief Description:** API for communicating with MessagePack serialization
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**Link:** http://pecl.php.net/package/msgpack
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php-pecl-propro

Version (if any): 2.1.0-1.el7.remi.7.1
Brief Description: Property proxy
License(s): BSD
Link: http://pecl.php.net/package/propro

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**php-pecl-radius**

**Version (if any):** 1.4.0-0.3.b1.el7.remi.7.1  
**Brief Description:** Radius client library  
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**Link:** http://pecl.php.net/package/radius

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**php-pecl-raphf**

**Version (if any):** 2.0.0-3.el7.remi.7.1  
**Brief Description:** Resource and persistent handles factory  
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**Link:** http://pecl.php.net/package/raphf

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**php-phalcon3**

**Version (if any):** 3.4.1-2.el7.remi.7.1  
**Brief Description:** Resource and persistent handles factory  
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**Link:** https://phalconphp.com/en/

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**php-twig**

**Version (if any):** 1.35.4-1.el7.remi.7.1  
**Brief Description:** The flexible, fast, and secure template engine for PHP  
**License(s):** BSD  
**Link:** http://twig.sensiolabs.org

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**php-xml**

**Version (if any):** 7.1.24-1.el7.remi  
**Brief Description:** A module for PHP applications which use XML  
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**Link:** http://www.php.net/

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pinentry

Version (if any): 0.8.1-17.el7
Brief Description: Collection of simple PIN or passphrase entry dialogs
License(s): GPL v2.0
Link: http://www.gnupg.org/aegypten/

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pixman

Version (if any): 0.34.0-1.el7
Brief Description: Pixel manipulation library
License(s): MIT
Link: http://cgit.freedesktop.org/pixman/

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pkcs11-helper

**Version (if any):** 1.11-3.el7  
**Brief Description:** A library for using PKCS#11 providers  
**License(s):** GPL v2.0 or BSD, BSD selected  
**Link:** [http://www.opensc-project.org.opensc/wiki/pkgcs11-helper](http://www.opensc-project.org.opensc/wiki/pkgcs11-helper)

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pkgconfign
Okta Access Gateway
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Version (if any): 1.0.27.1-4.el7
Brief Description: A tool for determining compilation options
License(s): GPL v2.0
Link: http://pkgconfig.freedesktop.org

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plymouth

Version (if any): 0.8.9-0.31.20140113.el7.centos
Brief Description: Graphical Boot Animation and Logger
License(s): GPL v2.0
Link: http://www.freedesktop.org/wiki/Software/Plymouth

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plymouth-core-libs

Version (if any): 0.8.9-0.31.20140113.el7.centos
Brief Description: Plymouth core libraries
License(s): GPL v2.0
Link: http://www.freedesktop.org/wiki/Software/Plymouth

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plymouth-scripts

Version (if any): 0.8.9-0.31.20140113.el7.centos
Brief Description: Plymouth related scripts
License(s): GPL v2.0
Link: http://www.freedesktop.org/wiki/Software/Plymouth

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policycoreutils

Version (if any): 2.5-29.el7_6.1
Brief Description: SELinux policy core utilities
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License(s): GPL v2.0
Link: http://www.selinuxproject.org

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polkit

Version (if any): 0.112-18.el7_6.1
Brief Description: An authorization framework
License(s): LGPL v2.1
Link: http://www.freedesktop.org/wiki/Software/polkit

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polkit-pkla-compat

Version (if any): 0.1-4.el7
Brief Description: Rules for polkit to add compatibility with pklocalauthority
License(s): LGPL v2.1
Link: https://fedorahosted.org/polkit-pkla-compat/

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popt

Version (if any): 1.13-16.el7
Brief Description: C library for parsing command line parameters
License(s): MIT
Link: http://www.rpm5.org/

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**postfix**

Version (if any): 2:2.10.1-7.el7  
Brief Description: Postfix Mail Transport Agent  
License(s): IBM Public License 1.0  
Link: http://www.postfix.org

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**procps-ng**

Version (if any): 3.3.10-23.el7  
Brief Description: System and process monitoring utilities  
License(s): GPL v2.0 and LGPL v2.0  
Link: https://sourceforge.net/projects/procps-ng/

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**pth**

Version (if any): 2.0.7-23.el7  
Brief Description: The GNU Portable Threads library  
License(s): LGPL v2.1  
Link: http://www.gnu.org/software/pth/

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**pygpgme**

Version (if any): 0.3-9.el7
Brief Description: Python module for working with OpenPGP messages
License(s): LGPL v2.1
Link: http://cheeseshop.python.org/pypi/pygpgme

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pyliblzma

Version (if any): 0.5.3-11.el7
Brief Description: Python bindings for lzma
License(s): LGPL v3.0
Link: https://launchpad.net/pyliblzma

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python

Version (if any): 2.7.5-77.el7_6
Brief Description: An interpreted, interactive, object-oriented programming language
License(s): Python Software Foundation License v2
Link: http://www.python.org/

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python-backports

Version (if any): 1.0-8.el7
Brief Description: Namespace for backported Python features
License(s): Public Domain
Link: https://pypi.python.org/pypi/backports

python-backports-ssl_match_hostname

Version (if any): 3.5.0.1-1.el7
Brief Description: The ssl.match_hostname() function from Python 3
License(s): Python Software Foundation License v2
Link: https://bitbucket.org/brandon/backports.ssl_match_hostname
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**python-configobj**

Version (if any): 4.7.2-7.el7  
Brief Description: Config file reading, writing, and validation  
License(s): BSD  
Link: http://www.voidspace.org.uk/python/configobj.html

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**python-decorator**

Version (if any): 3.4.0-3.el7  
Brief Description: Module to simplify usage of decorators  
License(s): BSD  
Link: http://pypi.python.org/pypi/decorator/

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**python-firewall**

**Version (if any):** 0.5.3-5.el7  
**Brief Description:** Python2 bindings for firewalld  
**License(s):** GPL v2.0  
**Link:** http://www.firewalld.org

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**python-gobject-base**

**Version (if any):** 3.22.0-1.el7_4.1  
**Brief Description:** Python 2 bindings for GObject Introspection base package  
**License(s):** LGPL v2.1  
**Link:** https://wiki.gnome.org/Projects/PyGObject

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**python-iniparse**

**Version (if any):** 0.4-9.el7  
**Brief Description:** Python Module for Accessing and Modifying Configuration Data in INI files  
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Link: http://code.google.com/p/iniparse/

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**python-ipaddress**

**Version (if any):** 1.0.16-2.el7  
**Brief Description:** Port of the python 3.3+ ipaddress module to 2.6+  
**License(s):** Python Software Foundation License v2  
**Link:** https://pypi.python.org/pypi/ipaddress/1.0.16

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**python-javapackages**

**Version (if any):** 3.4.1-11.el7  
**Brief Description:** Module for handling various files for Java packaging  
**License(s):** BSD  
**Link:** https://fedorahosted.org/javapackages/

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python-libs

Version (if any): 2.7.5-77.el7_6
Brief Description: Runtime libraries for Python
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Link: http://www.python.org/

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python-linux-procs

Version (if any): 0.4.9-4.el7
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Brief Description: Linux /proc abstraction classes
License(s): GPL v2.0
Link: http://userweb.kernel.org/~acme/python-linux-procfs

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python-lxml

Version (if any): 3.2.1-4.el7
Brief Description: ElementTree-like Python bindings for libxml2 and libxslt
License(s): BSD
Link: http://lxml.de

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python-perf

Version (if any): 3.10.0-957.21.3.el7
Brief Description: Python bindings for apps which will manipulate perf events
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python-pycurl

Version (if any): 7.19.0-19.el7
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License(s): LGPL v2.1 or MIT, MIT selected
Link: http://pycurl.sourceforge.net/

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python-pyudev

Version (if any): 0.15-9.el7
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python-schedutils

Version (if any): 0.4-6.el7  
Brief Description: Linux scheduler python bindings  
License(s): GPL v2.0  
Link: http://git.kernel.org/?p=linux/kernel/git/acme/python-schedutils.git

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python-setuptools

Version (if any): 0.9.8-7.el7  
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Link: http://pypi.python.org/pypi/setuptools

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**python-slip**

Version (if any): 0.4.0-4.el7  
Brief Description: Miscellaneous convenience, extension and workaround code for Python  
License(s): GPL v2.0  
Link: https://github.com/nphilipp/python-slip

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---

**python-slip-dbus**

Version (if any): 0.4.0-4.el7  
Brief Description: Convenience functions for dbus services  
License(s): GPL v2.0  
Link: https://github.com/nphilipp/python-slip

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**python-urlgrabber**

Version (if any): 3.10-9.el7  
Brief Description: A high-level cross-protocol url-grabber  
License(s): LGPL v2.1  
Link: http://urlgrabber.baseurl.org/

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**pyxattr**

Version (if any): 0.5.1-5.el7  
Brief Description: Extended attributes library wrapper for Python
License(s): LGPL v2.1
Link: http://pyxattr.sourceforge.net/

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**qrencode**

**Version (if any):** 3.4.1-3.el7
**Brief Description:** QR Code encoding library - Shared libraries
**License(s):** LGPL v2.1
**Link:** http://megaui.net/fukuchi/works/qrencode/index.en.html

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**readline**

**Version (if any):** 6.2-10.el7
**Brief Description:** A library for editing typed command lines
**License(s):** GPL v3.0
**Link:** http://cnswww.cns.cwru.edu/php/chet/readline/rltop.html

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**rootfiles**

**Version (if any):** 8.1-11.el7
**Brief Description:** The basic required files for the root user's directory
**License(s):** Public Domain
**Link:** https://centos.pkgs.org/7/centos-x86_64/rootfiles-8.1-11.el7.noarch.rpm.html

---

**rpm**

**Version (if any):** 4.11.3-35.el7
**Brief Description:** The RPM package management system
**License(s):** GPL v2.0
**Link:** http://www.rpm.org/
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rpm-build-libs

Version (if any): 4.11.3-35.el7
Brief Description: Libraries for building and signing RPM packages
License(s): GPL v2.0 and LGPL v2.0
Link: http://www.rpm.org/

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rpm-libs

Version (if any): 4.11.3-35.el7
Brief Description: Libraries for manipulating RPM packages
License(s): GPL v2.0 and LGPL v2.0
Link: http://www.rpm.org/

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rpm-python

Version (if any): 4.11.3-35.el7
Brief Description: Python bindings for apps which will manipulate RPM packages
License(s): GPL v2.0
Link: http://www.rpm.org/

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rsync

Version (if any): 3.1.2-6.el7_6.1
Brief Description: A program for synchronizing files over a network
License(s): GPL v3.0
Link: http://rsync.samba.org/

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rsyslog

Version (if any): 8.24.0-34.el7
Brief Description: Enhanced system logging and kernel message trapping daemon
License(s): GPL v3.0 and LGPL v3.0 and Apache 2.0
Link: http://www.rsyslog.com/

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screen

Version (if any): 4.1.0-0.25.20120314git3c2946.el7
Brief Description: A screen manager that supports multiple logins on one terminal
License(s): GPL v2.0
Link: http://www.gnu.org/software/screen

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sed

Version (if any): 4.2.2-5.el7
Brief Description: A GNU stream text editor
License(s): GPL v3.0
Link: http://sed.sourceforge.net/

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selinux-policy

Brief Description: SELinux policy configuration
License(s): GPL v2.0
Link: http://oss.tresys.com/repos/refpolicy/

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selinux-policy-targeted
Okta Access Gateway
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**Okta Access Gateway**

**Version (if any):**
3.13.1-229.el7_6.12

**Brief Description:**
SELinux targeted base policy

**License(s):**
GPL v2.0

**Link:**
http://oss.tresys.com/repos/refpolicy/

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**setup**

**Version (if any):**
2.8.71-10.el7

**Brief Description:**
A set of system configuration and setup files

**License(s):**
Public Domain

**Link:**
https://pagure.io/setup/

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**sg3_utils**

**Version (if any):**
1.37-17.el7

**Brief Description:**
Utilities for devices that use SCSI command sets

**License(s):**
GPL v2.0 and BSD

**Link:**
http://sg.danny.cz/sg/sg3_utils.html

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Douglas Gilbert
10th April 2012

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**sg3_utils-libs**

- **Version (if any):** 1.37-17.el7
- **Brief Description:** Shared library for sg3_utils
- **License(s):** GPL v2.0 and BSD
- **Link:** [http://sg.danny.cz/sg/sg3_utils.html](http://sg.danny.cz/sg/sg3_utils.html)

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Douglas Gilbert
10th April 2012

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shadow-utils
Okta Access Gateway
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Version (if any): 2:4.1.5.1-25.el7_6.1
Brief Description: Utilities for managing accounts and shadow password files
License(s): BSD-Style
Link: URL

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shared-mime-info

**Version (if any):** 1.8-4.el7  
**Brief Description:** Shared MIME information database  
**License(s):** GPL v2.0  
**Link:** http://freedesktop.org/Software/shared-mime-info

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SimpleSAMLphp
Version (if any): 1.17.8
Brief Description: SimpleSAMLphp is an application written in native PHP that deals with authentication.
License: LGPL v2.1


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slang
Version (if any): 2.2.4-11.el7
Brief Description: The shared library for the S-Lang extension language
License(s): GPL v2.0
Link: http://www.jedsoft.org/slang/

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snappy
Version (if any): 1.1.0-3.el7
Brief Description: Fast compression and decompression library
License(s): BSD
Link: http://code.google.com/p/snappy/

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### sqlite

**Version (if any):** 3.7.17-8.el7  
**Brief Description:** Library that implements an embeddable SQL database engine  
**License(s):** Public Domain  
**Link:** [http://www.sqlite.org/](http://www.sqlite.org/)

---

### sudo

**Version (if any):** 1.8.23-3.el7  
**Brief Description:** Allows restricted root access for specified users  
**License(s):** ISC  
**Link:** [http://www.courtesan.com/sudo/](http://www.courtesan.com/sudo/)

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

syslog-ng

Version (if any): 3.5.6-3.el7
Brief Description: Next-generation syslog server
License(s): GPL v2.0
Link: http://www.balabit.com/network-security/syslog-ng

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syslog-ng-libdbi

**Version (if any):** 3.5.6-3.el7  
**Brief Description:** libdbi support for syslog-ng  
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systemd

**Version (if any):** 219-62.el7_6.6  
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**Link:** [http://www.freedesktop.org/wiki/Software/systemd](http://www.freedesktop.org/wiki/Software/systemd)

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systemd-libs

**Version (if any):** 219-62.el7_6.6  
**Brief Description:** systemd libraries  
**License(s):** LGPL v2.1  
**Link:** [http://www.freedesktop.org/wiki/Software/systemd](http://www.freedesktop.org/wiki/Software/systemd)

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systemd-sysv

**Version (if any):** 219-62.el7_6.6  
**Brief Description:** SysV tools for systemd  
**License(s):** LGPL v2.1  
**Link:** [http://www.freedesktop.org/wiki/Software/systemd](http://www.freedesktop.org/wiki/Software/systemd)

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sysvinit-tools
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Version (if any): 2.88-14.dsf.el7
Brief Description: Tools used for process and utmp management.
License(s): GPL v2.0
Link: http://savannah.nongnu.org/projects/sysvinit/

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---

**tar**

Version (if any): 2:1.26-35.el7
Brief Description: A GNU file archiving program
License(s): GPL v3.0
Link: http://www.gnu.org/software/tar/

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---

**tcp_wrappers-libs**

Version (if any): 7.6-77.el7
Brief Description: Libraries for tcp_wrappers
License(s): BSD

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**tcpdump**

Version (if any): 14:4.9.2-3.el7
Brief Description: A network traffic monitoring tool
License(s): BSD
Link: http://www.tcpdump.org
License: BSD

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teamd

Version (if any): 1.27-5.el7
Brief Description: Team network device control daemon
License(s): LGPL v2.1
Link: http://www.libteam.org

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---

ttmkfdir

Version (if any): 3.0.9-42.el7
Brief Description: Utility to create fonts.scale files for truetype fonts
License(s): LGPL v2.1
Link: https://www.systutorials.com/docs/linux/man/1-ttmkfdir/

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tuned

Version (if any): 2.10.0-6.el7_6.3
Brief Description: A dynamic adaptive system tuning daemon
License(s): GPL v2.0
Link: http://www.tuned-project.org/
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---

tzdata

Version (if any): 2019a-1.el7  
Brief Description: Timezone data  
License(s): Public Domain  
Link: https://www.iana.org/time-zones

---

tzdata-java

Version (if any): 2019a-1.el7  
Brief Description: Timezone data for Java  
License(s): Public Domain  
Link: https://www.iana.org/time-zones

---

unixODBC

Version (if any): 2.3.1-11.el7  
Brief Description: A complete ODBC driver manager for Linux  
License(s): GPL 2.0 and LGPL v2.1  
Link: http://www.unixODBC.org/

NOTE: The following notice is found in the file unixODBC-2.3.1-11.el7.i686.rpm in the materials:

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ustr

Version (if any): 1.0.4-16.el7  
Brief Description: String library, very low memory overhead, simple to import  
License(s): LGPL v2.1 or BSD or MIT, MIT selected  
Link: http://www.and.org/ustr/

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util-linux

Version (if any): 2.23.2-59.el7_6.1
Brief Description: A collection of basic system utilities
License(s): GPL v2.0 and LGPL v2.1 and BSD and Public Domain
Link: https://mirrors.edge.kernel.org/pub/linux/utils/util-linux/

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NetBSD disklabel editor for Linux fdisk
Written by Bernhard Fastenrath (fasten@informatik.uni-bonn.de)
with code from the NetBSD disklabel command:

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* Michael Glad (glad@daimi.dk)
* Computer Science Department, Aarhus University, Denmark
* 1990-07-04

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/* tailf.c -- tail a log file and then follow it
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vim-common

Version (if any): 2:7.4.160-5.el7
Brief Description: The common files needed by any version of the VIM editor
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vim-enhanced

Version (if any): 2:7.4.160-5.el7
Brief Description: A version of the VIM editor which includes recent enhancements
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vim-filesystem

Version (if any): 2:7.4.160-5.el7
Brief Description: VIM filesystem layout
License(s): Vim License
Link: http://www.vim.org/

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vim-minimal

Version (if any): 2:7.4.160-5.el7
Brief Description: A minimal version of the Vim editor
License(s): Vim License
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virt-what

Version (if any): 1.18-4.el7
Brief Description: Detect if we are running in a virtual machine
License(s): GPL v2.0
Link: http://people.redhat.com/~rjones/virt-what/

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which

Version (if any): 2.20-7.el7
Brief Description: Displays where a particular program in your path is located
License(s): GPL v3.0
Link: http://www.xs4all.nl/~carlo17/which/

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wpa_supplicant

Version (if any): 1:2.6-12.el7
Brief Description: WPA/WPA2/IEEE 802.1X Supplicant
License(s): BSD
Link: http://w1.fi/wpa_supplicant/

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**xfsporgs**

**Version (if any):** 4.5.0-19.el7_6  
**Brief Description:** Utilities for managing the XFS filesystem  
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**xmlsec1**

**Version (if any):** 1.2.20-7.el7_4  
**Brief Description:** Library providing support for "XML Signature" and "XML Encryption" standards  
**License(s):** MIT  
**Link:** [http://www.aleksey.com/xmlsec/](http://www.aleksey.com/xmlsec/)
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xmlsec, xmlsec-openssl, xmlsec-gnutls, xmlsec-gcrypt libraries

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xmlsec-mscrypto library

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References

* AOL
   http://www.aleksey.com/pipermail/xmlsec/attachments/20030729/0e25648e/attachment.htm

* Cordys R&D BV

* Cryptocom LTD
xmlsec1-openssl

Version (if any): 1.2.20-7.el7_4
Brief Description: OpenSSL crypto plugin for XML Security Library
License(s): MIT
Link: http://www.aleksey.com/xmlsec/

xmlsec, xmlsec-openssl, xmlsec-gnutls, xmlsec-gcrypt libraries

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xorg-x11-fonts-Type1

Version (if any): 7.5-9.el7
Brief Description: Type1 fonts provided by the X Window System
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Link: http://www.x.org

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xorg-x11-font-utils

Version (if any): 1:7.5-21.el7
Brief Description: X.Org X11 font utilities
License(s): MIT
Link: http://www.x.org

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xz

Version (if any): 5.2.2-1.el7
Brief Description: LZMA compression utilities
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**xz-libs**

**Version (if any):** 5.2.2-1.el7  
**Brief Description:** Libraries for decoding LZMA compression  
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**yum**

**Version (if any):** 3.4.3-161.el7.centos  
**Brief Description:** RPM package installer/updater/manager  
**License(s):** GPL v2.0  
**Link:** http://yum.baseurl.org/

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**yum-metadata-parser**

**Version (if any):** 1.1.4-10.el7  
**Brief Description:** A fast metadata parser for yum  
**License(s):** GPL v2.0  
**Link:** http://linux.duke.edu/projects/yum/

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**yum-plugin-fastestmirror**

**Version (if any):** 1.1.31-50.el7  
**Brief Description:** Yum plugin which chooses fastest repository from a mirrorlist  
**License(s):** GPL v2.0  
**Link:** http://yum.baseurl.org/download/yum-utils/

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zlib

Version (if any): 1.2.7-18.el7
Brief Description: The compression and decompression library
License(s): zlib License
Link: http://www.zlib.net/

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2006-Jan-27

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GCC Runtime Library Exception Version 3.1

31 March 2009

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*uganda.txt*  For Vim version 7.2. Last change: 2008 Jun 21
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==============================================================================

Kibaale Children's Centre *kcc* *Kibaale* *charity*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical
care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

*donate*

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Further more, the centre is co-sponsored and inspected by World Vision, Save the Children Fund and International Child Care Fund. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself in 1996, 1998, 2000, 2001 and 2003. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:
  Kibaale Children's Centre
  p.o. box 1658
  Masaka, Uganda, East Africa
Sending money: *iccf-donations*

Check the ICCF web site for the latest information! See [iccf] for the URL.

USA: The methods mentioned below can be used.
Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.
For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly.
Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.

Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353

If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Venlo. This will allow for tax deduction if you live in Holland.
Postbank, nr. 4548774

Germany: It is possible to make donations that allow for a tax return.
Check the ICCF web site for the latest information:
http://iccf-holland.org/germany.html

World: Use a postal money order. That should be possible from any country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar". Use Euro for the currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number.
Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:
The e-mail address for sending the money to is: Bram@iccf-holland.org
For amounts above 400 Euro ($500) sending a check is preferred.

Others:
Transfer to one of these accounts if possible:
Postbank, account 4548774
  Swift code: INGB NL 2A
  IBAN: NL47 PSTB 0004 5487 74
  under the name "stichting ICCF Holland", Venlo
If that doesn't work:
Rabobank Venlo, account 3765.05.117
  Swift code: RABO NL 2U
  under the name "Bram Moolenaar", Venlo
Otherwise, send a check in euro or US dollars to the address below. Minimal amount: $70 (my bank does not accept smaller amounts for foreign check, sorry)

Address to send checks to:
stichting ICCF Holland
Bram Moolenaar
Finsterruetihof 1
8134 Adliswil
Switzerland

This address is expected to be valid for a long time.

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