

Hitachi Content Platform S Series Node

3.0

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Preface

The HCP S Series operating system and software incorporate third-party software from a number of vendors. This book contains the copyright and license information for that software.

Intended audience

This book is intended for all HCP S Series Node users.

Product version

This book applies to release 3.0 or later of the HCP S Series Node.

Release notes

Read the release notes before installing and using this product. They may contain requirements or restrictions that are not fully described in this document or updates or corrections to this document. Release notes are available on Hitachi Vantara Support Connect:

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Related documents

The following documents contain additional information about HCP S Series Nodes:

- *HCP S Series Node Help* (MK-HCPS022) — This Help system contains information about configuring and managing an HCP S11 or S31 Node. The Help includes information you need to effectively use the HCP S

Series Management Console. The Help also contains a complete reference for using the HCP S Series management API.

- *HCP S11 and S31 Node API Reference* (MK-HCPS023) — This book contains all the information you need to use the HCP S Series management API with an HCP S11 or S31 Node. This RESTful API enables you to configure, monitor, and manage an S11 or S31 Node programmatically.

Accessing product documentation

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Corporation.

Thank you!

Introduction

The HCP S Series operating system and software incorporate third-party software from a number of vendors:

- The HCP S Series operating system is based on the open source operating system Fedora 28 from the Fedora project (<http://fedoraproject.org>).
- The HCP S Series software is distributed with multiple third-party software packages.

Unless otherwise indicated in this Help, open source software is used without modification.

To obtain any of the open source software packages mentioned in this document, please contact:

Project Manager, HCP S Series Node
Hitachi Vantara Corporation
2535 Augustine Drive
Santa Clara, CA 95054 USA

Hitachi Vantara gratefully acknowledges the contributions of the open source community in the development of the HCP S Series operating system and software.

Unmodified Fedora packages

The table below lists Fedora software packages that are used unmodified in the HCP S Series operating system. The packages are broken out by the licenses that apply to them. The information for each license includes a link to the text of the license. Under each license, the packages are listed in alphabetical order. For each package, the table shows the package version, Fedora release, and copyrights (where required).

Package	Version	Fedora Release	Copyright
<i>(CDDL or GPLv2 with exceptions) and ASL 2.0 (see Chapter 8: "License exceptions" on page 863 and "Apache License, version 2.0" on page 637)</i>			
glassfish-el-api	3.0.1	0.7.b08.fc28	
glassfish-servlet-api	3.1.0	14.fc28	
<i>(CDDL-1.1 or GPLv2 with exceptions) and ASL 2.0 (see Chapter 8: "License exceptions" on page 863 and "Apache License, version 2.0" on page 637)</i>			
glassfish-jsp-api	2.3.2	0.9.b01.fc28	
<i>(FTL or GPLv2+) and BSD and MIT and Public Domain and zlib with acknowledgement (see "Freetype License" on page 679, "GNU General Public License, version 2 (GPLv2)" on page 698, "BSD License (three clause)" on page 656, "MIT License" on page 759, and "zlib License" on page 811)</i>			
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perl-MIME-Base64	3.15	397.fc28	Copyright (C) 1991 Bell Communications Research Inc (Bellcore)
(GPLv2+ or AFL) and GPLv2+ (see "GNU General Public License, version 2 (GPLv2)" on page 698)			
dbus	1.12.10	1.fc28	
dbus-libs	1.12.10	1.fc28	
(GPLv2+ or LGPLv3+) and GPLv3+ (see "GNU General Public License, version 2 (GPLv2)" on page 698, "GNU Lesser General Public License, version 3+ (LGPLv3+)" on page 731, and "GNU General Public License, version 3+ (GPLv3+)" on page 706)			
libidn2	2.1.1a	1.fc28	
(GPLv3+ and ASL 2.0) (see "GNU General Public License, version 3+ (GPLv3+)" on page 706 and "Apache License, version 2.0" on page 637)			
rsyslog	8.39.0	1.fc28	
(LGPLv3+ or GPLv2+) and GPLv3+ (see "GNU Lesser General Public License, version 3+ (LGPLv3+)" on page 731, "GNU General Public License, version 2 (GPLv2)" on page 698, and "GNU General Public License, version 3+ (GPLv3+)" on page 706)			
libksba	1.3.5	7.fc28	

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tomcat-jsp-2.3-api	8.5.32	1.fc28	
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pam	1.3.1	1.fc28	Copyright (C) 2006 Red Hat Copyright (C) 1996 Cristian Gafton Copyright (C) 1989 - 1994 - Julianne Frances Haugh Copyright (C) 2005 - 2012 Thorsten Kukuk Copyright (C) 1996 Elliot Lee All rights reserved Copyright (C) 1996 Theodore Tso All rights reserved Copyright (C) 2010 - 2017 Tomas Mraz tmraz@redhatcom Copyright (C) 2005 - 2013 Thorsten Kukuk kukuk@thkukukde Copyright (C) 2007 - 2008 Red Hat Inc All rights reserved Copyright (C) 1989 - 1993 (Portions) - Julianne Frances Haugh Copyright (C) 1999 Red Hat Software Inc Copyright (C) 1997 Andrew G Morgan morgan@parcpowernet Copyright (C) 1996 Andrew G Morgan All rights reserved Copyright (C) 1995 - 2010 Ulrich Drepper drepper@gnuaimitedu Copyright (C) 2005 (Portions)

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ecj	4.7.3a	1.fc28	
junit	4.12	8.fc28	
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base64coder	20101219	20.fc28	
GPL+ (see "GNU General Public License + (GPL+)" on page 692)			
fuse	2.9.7	11.fc28	
fuse-common	3.2.1	11.fc28	
procinfo	18	41.fc28	
tunctl	1.5	18.fc28	
GPL+ and GPLv2 and GPLv2+ and GPLv3+ and LGPLv2+ (see "GNU General Public License + (GPL+)" on page 692, "GNU General Public License, version 2 (GPLv2)" on page 698, "GNU General Public License, version 3+ (GPLv3+)" on page 706, and "GNU Lesser General Public License, version 2+ (LGPLv2+)" on page 720)			
procps-ng	3.3.12	3.fc28	

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crmsh-scripts	3.0.0	6.2	
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libunistring	0.9.10	1.fc28	
GPLv2 (see "GNU General Public License, version 2 (GPLv2)" on page 698)			
MAKEDEV	3.24	22.fc28	
chkconfig	1.10	4.fc28	
contrack-tools	1.4.4	7.fc28	
dbxtool	8	5.fc28	
device-mapper	1.02.146	5.fc28	
device-mapper-event	1.02.146	5.fc28	
e2fsprogs	1.44.2	0.fc28	
ethtool	4.17	1.fc28	
gdisk	1.0.4	1.fc28	
initscripts	9.80	1.fc28	
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libcap	2.25	9.fc28	

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open-vm-tools	10.3.5	2.fc28	
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iptables-services	1.6.2	3.fc28	Copyright (C) 2003 Mike Frantzen frantzen@w4gorg Copyright (C) 2000 - 2002 Joakim Axelsson gozem@linuxnu Copyright (C) 2000 - 2001 Netfilter Core Team Copyright (C) 2000 - 2001 Netfilter Core Team Copyright (C) 2007 - 2008 CC Computer Consultants GmbH - Copyright (C) 2002 - 2008 BalaBit IT Ltd Copyright (C) 2009 Matteo Frigo Copyright (C) 2011 Jan Engelhardt Copyright (C) 2005 Evgeniy Polyakov johnpol@2kamxtru Copyright (C) 2013 Google Inc Copyright (C) 2006 Red Hat Inc

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lksctp-tools	1.0.16	9.fc28	Copyright (C) 1999 - 2000 Cisco Inc Copyright (C) 2001 - 2002 Nokia Copyright (C) 2004 Hewlett-Packard Company Copyright (C) 1999 - 2001 Motorola Copyright (C) 1999 - 2003 Cisco Copyright (C) 2003 - 2007 Hewlett-Packard Development Company LP

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GPLv2 and LGPLv2 (see "GNU General Public License, version 2 (GPLv2)" on page 698 and "GNU Lesser General Public License, version 2+ (LGPLv2+)" on page 720)			
e2fsprogs-libs	1.44.2	0.fc28	
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libatomic_ops	7.6.2	3.fc28	Copyright (C) 2007 NEC LE-IT All rights reserved Copyright (C) 1994 X Consortium Copyright (C) 1991 - 1994 Xerox Corporation All rights reserved Copyright (C) 2003 - 2011 Hewlett-Packard Development Company LP Copyright (C) 1989 - 2017 Free Software Foundation Inc Copyright (C) 2009 Bradley Smith brad@brad-smithcouk Copyright (C) 2004 - 2015 Free Software Copyright (C) 2009 Takashi YOSHII All rights reserved Copyright (C) 2016 Marek Vasut marex@denxde Copyright (C) 1999 - 2003 Hewlett-Packard Company All rights reserved Copyright (C) 1996 - 1999 Silicon Graphics All rights reserved

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kernel-core	4.18.16	200.1.rnof28_300	
kernel-modules	4.18.16	200.1.rnof28_300	
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GPLv2 or GPLv3 (see "GNU General Public License, version 2 (GPLv2)" on page 698 and "GNU General Public License, version 3+ (GPLv3+)" on page 706)			
ndisc6	1.0.3	5.fc27	
GPLv2+ (see "GNU General Public License, version 2 (GPLv2)" on page 698)			
acl	2.2.53	1.fc28	
acpi	1.7	9.fc28	
acpid	2.0.30	1.fc28	
attr	2.4.48	3.fc28	
autofs	5.1.4	20.fc28	
bash-completion	2.8	1.fc28	
bc	1.07.1	5.fc28	
blktrace	1.2.0	6.fc28	
dmidecode	3.2	1.fc28	
efibootmgr	16	2.fc28	

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hostname	3.20	3.fc28	
hwdata	0.319	1.fc28	
iotop	0.6	16.fc28	
ipcalc	0.2.3	1.fc28	
kmod	25	2.fc28	
libnetfilter_ conntrack	1.0.7	1.fc28	
libnetfilter_ cttimeout	1.0.0	11.fc28	
libnftnl	1.0.1	13.fc28	
libreport- filesystem	2.9.5	3.fc28	
libsigsegv	2.11	5.fc28	
linuxconsoleto ols	1.6.0	1.fc28	
logrotate	3.14.0	2.fc28	
lrzsz	0.12.20	43.fc28	
lsscsi	0.28	6.fc27	
ltrace	0.7.91	24.fc27	
lzo	2.08	12.fc28	
mdadm	4.0	5.5.rnof28_300	
mingetty	1.08	21.fc27	
net-tools	2.0	0.50.20160912git.fc28	
pciutils	3.5.6	3.fc28	
pciutils-libs	3.5.6	3.fc28	
psmisc	23.1	3.fc28	

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rpm	4.14.2.1	2.fc28	
rpm-plugin-selinux	4.14.2.1	2.fc28	
sbd	1.2.1	4.1.rnof28_300.1	
screen	4.6.2	3.fc28	
smartmontools	6.6	3.fc28	
smem	1.4	7.fc28	
sysstat	11.7.3	1.fc28	
traceroute	2.1.0	6.fc28	
tree	1.7.0	14.fc28	
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os-prober	1.74	6.fc28	
GPLv2+ and GPLv3+ (see "GNU General Public License, version 2 (GPLv2)" on page 698 and "GNU General Public License, version 3+ (GPLv3+)" on page 706)			
man-db	2.7.6.1	13.fc28	
GPLv2+ and LGPLv2+ (see "GNU General Public License, version 2 (GPLv2)" on page 698 and "GNU Lesser General Public License, version 2+ (LGPLv2+)" on page 720)			
cryptsetup	2.0.6	1.fc28	
cryptsetup-libs	2.0.6	1.fc28	
dracut	047	8.git20180305.2.rnof2	

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		8_300	
dracut-network	047	8.git20180305.2.rnof2 8_300	
fence-agents-common	4.2.1	1.2.rnof28_300	
fence-agents-ipmilan	4.2.1	1.2.rnof28_300	
keyutils	1.5.10	6.fc28	
keyutils-libs	1.5.10	6.fc28	
liblockfile	1.14	1.fc28	
pacemaker	1.1.18	2.fc28.1	
pacemaker-cli	1.1.18	2.fc28.1	
pacemaker-cluster-libs	1.1.18	2.fc28.1	
pacemaker-libs	1.1.18	2.fc28.1	
resource-agents	4.1.1	1.fc28	
GPLv2+ and LGPLv2+ and Public Domain (see "GNU General Public License, version 2 (GPLv2)" on page 698 and "GNU Lesser General Public License, version 2+ (LGPLv2+)" on page 720)			
minicom	2.7.1	9.fc28	
GPLv2+ and LGPLv2+ with exceptions (see "GNU General Public License, version 2 (GPLv2)" on page 698 and "GNU Lesser General Public License, version 2+ (LGPLv2+)" on page 720)			
rpm-libs	4.14.2.1	2.fc28	
GPLv2+ and Public Domain (see "GNU General Public License, version 2 (GPLv2)" on page 698)			
iproute	4.18.0	1.fc28	
xz	5.2.4	2.fc28	

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perl-Getopt-Long	2.50	4.fc28	
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elfutils-default-yama-scope	0.174	5.fc28	
elfutils-libelf	0.174	5.fc28	
elfutils-libs	0.174	5.fc28	
GPLv2+ with exceptions (see "GNU General Public License, version 2 (GPLv2)" on page 698)			
pkgconf-m4	1.4.2	1.fc28	
GPLv3 (see "GNU General Public License, version 3+ (GPLv3+)" on page 706)			
cifs-utils	6.8	1.fc28	
which	2.21	8.fc28	
GPLv3+ (see "GNU General Public License, version 3+ (GPLv3+)" on page 706)			
bash	4.4.23	1.fc28	
coreutils	8.29	7.fc28	
coreutils-common	8.29	7.fc28	
cpio	2.12	7.fc28	
device-mapper-persistent-data	0.7.5	3.fc28	
diffutils	3.6	4.fc28	
dosfstools	4.1	5.fc28	
findutils	4.6.0	19.fc28	
gdbm	1.14.1	4.fc28	

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gdbm-libs	1.14.1	4.fc28	
gnupg2	2.2.12	1.fc28	
grep	3.1	5.fc28	
grub2-common	2.02	34.2.rnof28_300	
grub2-efi-x64	2.02	34.2.rnof28_300	
grub2-efi-x64-modules	2.02	34.2.rnof28_300	
grub2-pc-modules	2.02	34.2.rnof28_300	
grub2-tools	2.02	34.2.rnof28_300	
grub2-tools-efi	2.02	34.2.rnof28_300	
grub2-tools-extra	2.02	34.2.rnof28_300	
grub2-tools-minimal	2.02	34.2.rnof28_300	
info	6.5	4.fc28	
libbasicobjects	0.1.1	38.fc28	
libpipeline	1.5.0	2.fc28	
make	4.2.1	6.fc28	
mokutil	0.3.0	8.fc28	
nano	2.9.8	1.fc28	
parted	3.2	31.fc28	
patch	2.7.6	8.fc28	
readline	7.0	11.fc28	
rsync	3.1.3	4.fc28	
sed	4.5	1.fc28	
tar	1.30	3.fc28	

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wget	1.20.1	1.fc28	
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elfutils	0.174	5.fc28	
GPLv3+ and CC0-1.0 (see "GNU General Public License, version 3+ (GPLv3+)" on page 706)			
emacs-filesystem	26.1	3.fc28	
emacs-nox	26.1	3.fc28	
GPLv3+ and GFDL (see "GNU General Public License, version 3+ (GPLv3+)" on page 706 and "GNU Free Documentation License" on page 682)			
gzip	1.9	3.fc28	Copyright (C) 1990 - 2018 Free Software Foundation Copyright (C) 1990 - 2009 @copyright Free Software Copyright (C) 1994 X Consortium Copyright (C) 1990 - 1992 Not Mark Adler Copyright (C) 1990 - 2009 Free Software Copyright (C) 1987 - 2018 Free Software Foundation Inc Copyright (C) 1988 - 2018 Free Software Copyright (C) 1995 - 2018 dnl Free Software Foundation Inc Copyright (C) 2001 - 2002 Sverre Jarpe (HP Labs) Copyright (C) 1993 addc not (n) Mark Adler Copyright (C) 1997 - 2018 dnl Free Software Foundation Copyright (C) 1992 - 1993 Jean-loup Gailly Copyright (C) 1991 - 2007 years (such as 90 2008) in a Copyright (C) 1993 subc not (n) Mark Adler Copyright (C) 1998 - 2018 Free

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<i>GPLv3+ and GFDL and BSD (see "GNU General Public License, version 3+ (GPLv3+)" on page 706, "GNU Free Documentation License" on page 682, and "BSD License (three clause)" on page 656)</i>			
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GPLv3+ and GFDL and BSD and MIT (see "GNU General Public License, version 3+ (GPLv3+)" on page 706, "GNU Free Documentation License" on page 682, "BSD License (three clause)" on page 656, and "MIT License" on page 759)			
groff-base	1.22.3	15.fc28	Copyright (C) 2008 Tim Toolan toolan@eleuriedu Copyright (C) 1991 Massachusetts Institute of Technology Copyright (C) 2004 - 2014 Free Software Foundation Inc Copyright (C) 2009 Francesco Salvestrini salvestrini@userssourceforgenet Copyright (C) 1982 -C- Barry S

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gawk	4.2.1	1.fc28	Copyright (C) 1996 - 2012 Specialized System Consultants Inc (SSC) Copyright (C) 1996 mainc (copyleft) Update date to Copyright (C) 2014 - 2016 the Free Software Foundation Inc Copyright (C) 1996 Free Software Foundation Inc Copyright (C) 1995 - 2010 Ulrich Drepper drepper@gnuaimitedu Copyright (C) 1995 - 2015 dnl Copyright (C) 1991 - 2011 - the Free Software Foundation Inc Copyright (C) 2007 All relevant files Updated year to Copyright (C) 1996 mawk 133 Nov Michael D Brennan Copyright (C) 1995 - 2015 dnl Free Software Foundation Inc Copyright (C) 2007 Free Software Foundation Inc httpfsforg Copyright (C) 1986 - 2018 the Free Software Foundation Inc Copyright (C) 2008 @copyright Davide Brini Copyright (C) 1989 - 2015 @print Free Software Foundation Copyright (C) 1996 Too many files to list Update date to Copyright (C) 1995 - 2018 dnl the Free Software Foundation Inc Copyright (C) 1989 - 2014 Free Software Foundation Copyright (C) 2003 - 2018 Free Software Foundation Inc Copyright (C) 1984 - 2018 Free Software Foundation Inc Copyright (C) 1988 - 2017 Free Software

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gdb	8.1.1	4.fc28	Copyright (C) 1990 - 2009 @copyright Free Software Copyright (C) 1994 X Consortium Copyright (C) 2013 - 2014 i386-genc (process_copyright) Update year to Copyright (C) 1993 mainc (print_gdb_version) Update year to Copyright (C) 1990 - 1992 MIPS Computer Systems Inc Copyright (C) 2010 Doug Evans Copyright (C) 1988 - 2018 @c Free Software Foundation Inc Copyright (C) 2006 - 2015 topc (print_gdb_version) Update year to Copyright (C) 2012 Zack Weinberg zackw@panixcom Copyright (C) 1998 - 1999 Cygnus Solutions Copyright (C) 1991 - 2007 years (such as 90 2008) in a Copyright (C) 2008 i386-genc Update to

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gdb-headless	8.1.1	4.fc28	Copyright (C) 1990 - 2009 @copyright Free Software Copyright (C) 1994 X Consortium Copyright (C) 2013 - 2014 i386-genc (process_copyright) Update year to Copyright (C) 1993 mainc (print_gdb_version) Update year to Copyright (C) 1990 - 1992 MIPS Computer Systems Inc Copyright (C) 2010 Doug Evans Copyright (C) 1988 - 2018 @c Free Software Foundation Inc Copyright (C) 2006 - 2015 topc (print_gdb_version) Update year to

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gettext	0.19.8.1	18.fc28	
gnutls	3.6.5	2.fc28	
libtasn1	4.13	2.fc28	
GPLv3+ and LGPLv3+ (see "GNU General Public License, version 3+ (GPLv3+)" on page 706 and "GNU Lesser General Public License, version 3+ (LGPLv3+)" on page 731)			
libwbclient	4.8.8	0.fc28	
samba-client-libs	4.8.8	0.fc28	
samba-common	4.8.8	0.fc28	
samba-common-libs	4.8.8	0.fc28	
GPLv3+ or BSD (see "GNU General Public License, version 3+ (GPLv3+)" on page 706 and "BSD License (three clause)" on page 656)			
less	530	1.fc28	Copyright (C) 1986 regexpc is University of Toronto Copyright (C) 1984 - 2017 Mark Nudelman Copyright (C) 1992 - 2012 Free Software Foundation Inc Copyright (C) 1986 University of Toronto Copyright (C) 1987 X Consortium Copyright (C) 2007 Free Software Foundation Inc http://sforg
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libjpeg-turbo	1.5.3	6.fc28	

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dhcp-libs	4.3.6	21.fc28	Copyright (C) 2000 (Portions) David E OBrien Copyright (C) 2004 - 2017 Internet Systems Consortium Inc (ISC) Copyright (C) 2004 - 2017 Internet Systems Consortium Inc(ISC) Copyright (C) 2014 William B Copyright (C) 1995 RadioMail

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libpkgconf	1.4.2	1.fc28	Copyright (C) 2011 Maarten Bosmans mkbosmans@gmailcom Copyright (C) 2000 The NetBSD Foundation Inc Copyright (C) 2011 - 2017 pkgconf authors (see AUTHORS) Copyright (C) 1992 - 2015 Free Software Foundation Inc Copyright (C) 2012 William Pitcock nenolod@dereferencedorg Copyright (C) 2004 - 2015 Free Software Copyright (C) 2006 - 2012 Toni Ronkko

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periodic	0.7	5.rnof28_300	
LGPL-2.1-or-later and GPL-2.0-or-later (see "GNU Library General Public License, version 2 (LGPLv2)" on page 734 and "GNU General Public License + (GPL+)" on page 692)			
strace	4.26	1.fc28	
LGPLv2 (see "GNU Lesser General Public License, version 2+ (LGPLv2+)" on page 720)			
device-mapper-event-libs	1.02.146	5.fc28	
device-mapper-libs	1.02.146	5.fc28	
libcroco	0.6.12	4.fc28	
libmspack	0.9.1	0.1.alpha.fc28	

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libn13	3.4.0	3.fc28	
libseccomp	2.3.3	2.fc28	
lockdev	1.0.4	0.26.20111007git.fc28	
lvm2-libs	2.02.177	5.fc28	
LGPLv2 and GPLv2 (see "GNU Lesser General Public License, version 2+ (LGPLv2+)" on page 720 and "GNU General Public License, version 2 (GPLv2)" on page 698)			
numactl-libs	2.0.11	8.fc28	
LGPLv2 and zlib (see "GNU Lesser General Public License, version 2+ (LGPLv2+)" on page 720 and "zlib License" on page 811)			
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SDL	1.2.15	30.fc28	
alsa-lib	1.1.6	2.fc28	
audit-libs	2.8.4	2.fc28	
avahi-libs	0.7	13.fc28	
cracklib	2.9.6	13.fc28	
cracklib-dicts	2.9.6	13.fc28	
crypto-policies	20180425	5.git6ad4018.fc28	
fuse-libs	2.9.7	11.fc28	
glib2	2.56.4	1.fc28	
gpgme	1.10.0	4.fc28	
jcsp	1.1	0.9.rc5.fc28	
kmod-libs	25	2.fc28	
libacl	2.2.53	1.fc28	
libaio	0.3.110	11.fc28	
libattr	2.4.48	3.fc28	
libblkid	2.32.1	1.fc28	
libcap-ng	0.7.9	4.fc28	
libcgroup	0.41	20.fc28	
libconfig	1.5	9.fc28	
libestr	0.1.9	10.fc28	
libfdisk	2.32.1	1.fc28	
libgcrypt	1.8.4	1.fc28	
libgpg-error	1.33	1.fc28	
libmnl	1.0.4	6.fc28	

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libmount	2.32.1	1.fc28	
libqb	1.0.3	4.fc28	
libsemanage	2.8	2.fc28	
libsepol	2.8	1.fc28	
libsmartcols	2.32.1	1.fc28	
libssh	0.8.6	2.fc28	
libtool-ltdl	2.4.6	24.fc28	
libusbx	1.0.22	1.fc28	
libuser	0.62	13.fc28	
libutempter	1.1.6	14.fc28	
lm_sensors-libs	3.5.0	1.fc28	
npth	1.5	4.fc28	
qrencode-libs	3.4.4	5.fc28	
systemd-udev	238	11.gita76ee90.fc28	
ttmkfdir	3.0.9	54.fc28	
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gettext-libs	0.19.8.1	18.fc28	
libassuan	2.5.2	1.fc28	
LGPLv2+ and GPLv3+ and GFDL (see "GNU Lesser General Public License, version 2+ (LGPLv2+)" on page 720, "GNU General Public License, version 3+ (GPLv3+)" on page 706, and "GNU Free Documentation License" on page 682)			
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python3- pycurl	7.43.0.2	1.fc28	Copyright (C) 1991 - 1999 Free Software Foundation Inc Copyright (C) 2010 Ryan Tomayko httpptomaykocomabout Copyright (C) 2001 - 2008 Kjetil Jacobsen kjetilja at gmailcom Copyright (C) 2001 - 2008 Markus FXJ Oberhumer markus at oberhumercom Copyright (C) 2013 - 2018 Oleg Pudeyev oleg at bsdpowercom
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efivar	37	1.fc28	

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autogen-libopts	5.18.12	7.fc28	
guile	2.0.14	7.fc28	
libcollection	0.7.0	38.fc28	
libini_config	1.3.1	38.fc28	
libldb	1.4.0	4.fc28.1.3.6	
libpath_utils	0.2.1	38.fc28	
libref_array	0.1.5	38.fc28	
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gmp	6.1.2	7.fc28	
nettle	3.4.1	1.fc28	
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expat	2.2.5	3.fc28	Copyright (C) 2000 - 2017 Expat development team Copyright (C) 2017 José Gutiérrez de la Concha jose@zerocom Copyright (C) 1992 - 2017 Free Software Foundation Inc Copyright (C) 2010 Patrick Spendrin ps_ml@gmxde Copyright (C) 2004 - 2015 Free Software Copyright (C) 1998 - 2000 Thai Open Source Software Center Ltd and Clark Cooper Copyright (C) 1997 - 2000 Thai Open Source Software Center Ltd Copyright (C) 2016 - 2017 - Steve Holme steve_holme@hotmailcom Copyright (C) 2016 - 2017 Sebastian Pipping sebastian@pippingorg Copyright (C) 1994 X Consortium Copyright (C) 2001 - 2017 Expat

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fedora-release	28	6	
fedora-repos	28	5	
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libbabeltrace	1.5.4	2.fc28	Copyright (C) 2008 Ryan McCabe ryan@numborg Copyright (C) 2016 Antoine Busque antoinebusque@efficioscom Copyright (C) 2008 Rafael Laboissiere rafael@laboissierenet Copyright (C) 2008 Christian Haggstrom Copyright (C) 2013 Julien Desfossez juliendesfossez@efficioscom Copyright (C) 2008 Guido U Draheim guidod@gmxde Copyright (C) 2013 Julien Desfossez jdesfossez@efficioscom Copyright (C) 2011 - 2015 Mathieu Desnoyers mathieudesnoyers@efficioscom Copyright (C) 2008 Russ Allbery

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MIT and GPLv2 and GPLv2+ and BSD (see "MIT License" on page 759, "GNU General Public License, version 2 (GPLv2)" on page 698, and "BSD License (three clause)" on page 656)			
nfs-utils	2.3.3	1.rc1.fc28	Copyright (C) 2010 - 2011 Red Hat Jeff Layton jlayton@redhatcom Copyright (C) 1994 OpenVision Technologies Inc Copyright (C) 2010 - 2011 Karel Zak kzak@redhatcom Copyright (C) 1984 - 2009 Sun Microsystems Inc Copyright (C) 2007 - 2018 Oracle All rights reserved Copyright (C) 1995 - 2002 Jeffrey A Uphoff

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xorg-x11- fonts-Type1	7.5	19.fc28	Copyright (C) 1994 COMMENT

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MIT and Public Domain and UCD (see "MIT License" on page 759 and "Unicode Character Database Terms of Use (UCD)" on page 806)			
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MPLv2.0 (see "Mozilla Public License, version 2.0" on page 759)			
bind-export-libs	9.11.4	13.P2.fc28	
bind-libs	9.11.4	13.P2.fc28	
bind-libs-lite	9.11.4	13.P2.fc28	

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Package	Version	Fedora Release	Copyright
bind-license	9.11.4	13.P2.fc28	
bind-utils	9.11.4	13.P2.fc28	
nspr	4.20.0	1.fc28	
nss	3.41.0	3.fc28	
nss-softokn	3.41.0	3.fc28	
nss-softokn-freebl	3.41.0	3.fc28	
nss-sysinit	3.41.0	3.fc28	
nss-tools	3.41.0	3.fc28	
nss-util	3.41.0	3.fc28	
publicsuffix-list-dafsa	20180514	1.fc28	
python3-bind	9.11.4	13.P2.fc28	
Mixed			
hcp-os-hardware	1.1.101	41.rnof28_300	
hcp-os-hardware-lib	1.1.101	41.rnof28_300	
hcp-os-lib	1.1.101	41.rnof28_300	
hcps-hardware	1.0.138	67.rnof28_300	
os-release-hcps	28.0.79	1.rnof28_300	
tlp-lib	1.0.36	1.rnof28_300	
tlp-pam	1.0.36	1.rnof28_300	
Modified?			
Package	Version	Vendor	
OFL			
aajohan-	3.001	2.fc28	

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openldap	2.4.46	4.fc28	Copyright (C) 2004 Sang Seok Lim IBM Corp All Rights Reserved Copyright (C) 2003 - 2011 PADL Software Pty Ltd Copyright (C) 1998 NeoSoft Inc Copyright (C) 2009 - 2010 Martin Hedenfalk martin@bzerose Copyright (C) 2000 - 2008 (Portions) Pierangelo Masarati Copyright (C) 2008 (Portions) Emmanuel Dreyfus Copyright (C) 2008 (Portions) Andrew Findlay Copyright (C) 2004 Howard Chu Symas Corp All Rights Reserved Copyright (C) 2002 (Portions) Pierangelo Mararati Copyright (C) 2009 Jonathan Clarke jonathan@phillipouxnet Copyright (C) 2013 (Portions) Ted C Cheng Symas Corp Copyright (C) 2009 - 2014 IETF Trust and the persons identified as the Copyright (C) 2000 - 2001 Pierangelo Masarati ando@sys-netit Copyright (C) 2006 Hans Leidekker Copyright (C) 1994 X Consortium Copyright (C) 2008 (Portions) Red Hat Inc Copyright (C) 2000 (Portions) John

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compat-openssl10	1.0.2o	1.fc28	
openssl	1.1.0i	1.fc28	
openssl-libs	1.1.0i	1.fc28	
PostgreSQL (see "PostgreSQL License" on page 772)			
postgresql	9.3.17	1.rnof28_300	
postgresql-libs	9.3.17	1.rnof28_300	
postgresql-plpython	9.3.17	1.rnof28_300	
postgresql-server	9.3.17	1.rnof28_300	
postgresql-upgrade	9.3.17	1.rnof28_300	
Public Domain			
basesystem	11	5.fc28	
ca-certificates	2018.2.26	1.0.fc28	
expect	5.45.4	1.fc28	
extra166y	1.7.0	9.fc28	
filesystem	3.8	2.fc28	
fontpackages-filesystem	1.44	21.fc28	
libselinux	2.8	1.fc28	
lua-posix	33.3.1	8.fc28	
setup	2.11.4	1.fc28	
sqlite-libs	3.22.0	5.fc28	
tzdata	2018i	1.fc28	
tzdata-java	2018i	1.fc28	

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xz-libs	5.2.4	2.fc28	
Public Domain and GPLv2 (see "GNU General Public License, version 2 (GPLv2)" on page 698)			
crontabs	1.11	16.20150630git.fc28	
Public Domain and MIT (see "MIT License" on page 759)			
mailcap	2.1.48	3.fc28	Copyright (C) 1991 Bell Communications Research Inc (Bellcore)
Public Domain or ASL 2.0 (see "Apache License, version 2.0" on page 637)			
libargon2	20161029	5.fc28	
Python (see "Python License" on page 774)			
python2	2.7.15	4.fc28	
python2-dateutil	2.6.1	3.fc28	
python2-libs	2.7.15	4.fc28	
python3	3.6.8	2.fc28	
python3-libs	3.6.8	2.fc28	
SISSL and BSD (see "Sun Industry Standards Source License (SISSL)" on page 800 and "BSD License (three clause)" on page 656)			
libtirpc	1.0.3	6.rc2.fc28	Copyright (C) 1994 - 2013 Free Software Foundation Copyright (C) 1988 Sun Microsystems Inc - All Rights Reserved Copyright (C) 1984 - 2009 Sun Microsystems Inc Copyright (C) 2008 Isilon Inc http://www.isilon.com Copyright (C) 1992 Eric Young Copyright (C) 1992 - 2017 Free Software Foundation Inc Copyright (C) 2004 - 2015 Free Software Copyright (C) 2001 Daniel Eischen

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TCL			
tcl	8.6.8	1.fc28	
TTWL			
perl-Text-Tabs+Wrap	2013.0523	395.fc28	
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vim-enhanced	8.1.897	1.fc28	Copyright (C) 1992 - 2000 Microsoft Corporation Copyright (C) 2013 Jeroen Ruigrok van der Werven Eli Parra Copyright (C) 2002 E I DuPont de Nemours and Company Inc Copyright (C) 2017 Charles E

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vim-filesystem	8.1.897	1.fc28	Copyright (C) 1992 - 2000 Microsoft Corporation Copyright (C) 2013 Jeroen Ruigrok van der Werven Eli Parra Copyright (C) 2002 E I DuPont de Nemours and Company Inc Copyright (C) 2017 Charles E Campbell netrw-copyright

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vim-minimal	8.1.897	1.fc28	Copyright (C) 1992 - 2000 Microsoft Corporation Copyright (C) 2013 Jeroen Ruigrok van der Werven Eli Parra Copyright (C) 2002 E I DuPont de Nemours and Company Inc Copyright (C) 2017 Charles E Campbell netrw-copyright Copyright (C) 2001 Bohdan Vlasyuk

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<i>zlib (see "zlib License" on page 811)</i>			
libpng	1.6.34	6.fc28	Copyright (C) 1998 - 2000 Glenn Randers-Pehrson are derived from Copyright (C) 2002 Patrick RL Welche Copyright (C) 1995 Guy Eric Schalnat Group 42 Copyright (C) 1998 Andreas R

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<i>zlib and Boost (see "zlib License" on page 811 and "Boost License" on page 646)</i>			
zlib	1.2.11	8.fc28	Copyright (C) 1998 Andreas R Kleinert Copyright (C) 1990 - 2000 Info-ZIP All rights reserved Copyright (C) 2003 Chris Anderson christop@charmnet Copyright (C) 2003 - 2012 gzappend 12 (11 Oct 2012) Mark Adlern Copyright (C) 2003 Cosmin Truta Copyright (C) 1995 - 2017 Jean-loup Gailly Mark Adler Copyright (C) 2004 - 2005 Mark Adler Copyright (C) 1995 - 2017 Jean-loup Gailly Copyright (C) 1998 - 2005 Gilles Vollant Copyright (C) 1998 - 2010 MiniZip - Gilles Vollant - version 11 64 bits from Mathias Svensson Copyright (C) 1995 - 2017 Mark Adler Copyright (C) 1996 L Peter Deutsch Copyright (C) 1996 L Peter Deutsch and Jean-Loup Gailly Copyright (C) 1998 - 2010 - Gilles Vollant Even Rouault Mathias Svensson Copyright (C) 1995 - 2017 zlib is Jean-loup Gailly and Mark Adler Copyright (C) 1998 - 2010 Gilles Vollant (minizip) (http://www.imagecomzLibDllminizip.html) Copyright (C) 1998 Bob Dellaca Copyright (C) 1998 Jacques Nomssi Nzali Copyright (C) 2007 - 2008 Even Rouault Copyright (C) 1995 - 2017 Jean-loup Gailly and Mark Adler Copyright (C) 2009 - 2010 Mathias Svensson (http://result42.com)

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			Copyright (C) 1998 - 2007 Brian Raiter breadbox@muppetlabscom Copyright (C) 2004 Henrik Ravn Copyright (C) 2002 - 2004 -- Dmitriy Anisimkov -- Copyright (C) 2002 - 2016 Mark Adler all rights reserved
<i>zlib and Sendmail and LGPLv2+ (see "zlib License" on page 811, "Sendmail License" on page 796, and "GNU Lesser General Public License, version 2+ (LGPLv2+)" on page 720)</i>			
Isob	4.89	9.fc28	Copyright (C) 1988 - 1993 (a) The Regents of the University of Copyright (C) 1998 Sendmail Inc All rights reserved Copyright (C) 1993 - 2000 Free Software Foundation Inc Copyright (C) 1994 - 2008 Purdue Research Foundation West Lafayette Indiana Copyright (C) 2002 Purdue Research Foundation West Lafayette Copyright (C) 2004 - 2005 - Fabian Frederick fabianfrederick@gmxfr Copyright (C) 1997 Eric P Allman All rights reserved Copyright (C) 2000 1985,1989-1993,1995-1998 Free Software Foundation Inc Copyright (C) 1994 - 2008 @() Purdue Research FoundationnAll rights reservedn

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Package

cityhash
Version 1.1.1

Source

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

License text

See "[MIT License](#)" on page 759.

Package

dracut, dracut-network
Version 047-8.git20180305

Source

<https://dracut.wiki.kernel.org>

License text

See "[GNU General Public License, version 2+ \(GPLv2+\)](#)" on page 705 and "[GNU Lesser General Public License, version 2+ \(LGPLv2+\)](#)" on page 720.



Note: Hitachi Vantara has modified dracut and dracut-network for the HCP S Series operating system. The modified source code is available on request.

Package

fence-agents-common, fence-agents-ipmilan
Version 4.2.1

Source

<http://sourceware.org/cluster/wiki>

License text

See "[GNU General Public License, version 2 \(GPLv2\)](#)" on page 698 and "[GNU Lesser General Public License, version 2+ \(LGPLv2+\)](#)" on page 720.



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Package

grub2
Version 2.02-34.2

Source

<http://www.gnu.org/software/grub>

License text

See "[GNU General Public License, version 3+ \(GPLv3+\)](#)" on page 706.



Note: Hitachi Vantara has modified grub2 for the HCP S Series operating system. The modified source code is available on request.

Package

ipmitool
Version 1.8.18-10

Source

<https://github.com/ipmitool/ipmitool>

Proprietary notice

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License text

See "[Ipmitool License](#)" on page 746.



Note: Hitachi Vantara has modified ipmitool for the HCP S Series operating system. The modified source code is available on request.

Package

kernel
Version 4.18.16-200

Source

<http://kernel.org>

License text

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Note: Hitachi Vantara has modified kernel for the HCP S Series operating system. The modified source code is available on request.

Package

mdadm
Version 4.0-5

Source

<http://www.kernel.org/pub/linux/utils/raid/mdadm>

License text

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Note: Hitachi Vantara has modified mdadm for the HCP S Series operating system. The modified source code is available on request.

Package

periodic
Version 0.7

Source

dshaw@jabberwocky.com

License text

See "[GNU Lesser General Public License, version 2.1 \(LGPLv2.1\)](#)" on page 721.



Note: Source code for Periodic is available on request.

Package

postgresql, postgresql-libs, postgresql-plpython, postgresql-server,
postgresql-upgrade
Version 9.3.17

Source

<http://www.postgresql.org>

License text

See "[PostgreSQL License](#)" on page 772.

Package

python-parallax
Version 1.0.1

Source

<https://github.com/krig/parallax>

Proprietary notice

Copyright (c) 2009, Andrew McNabb
Copyright (c) 2003-2008, Brent N. Chun

License text

See "[Python-parallax License](#)" on page 794.

Package

python3-airspeed
Version 0.5.4

Source

<http://dev.sanityinc.com/airspeed/wiki/WikiStart>

Proprietary notice

Copyright (c) 2004-2009 Steve Purcell & Chris Tarttelin

License text

See "[Airspeed License](#)" on page 635.

Package

sbd

Version 1.2.1

Source

<https://github.com/beekhof/sbd>

License text

See "[GNU General Public License, version 2 \(GPLv2\)](#)" on page 698.



Note: Hitachi Vantara has modified sbd for the HCP S Series operating system. The modified source code is available on request.

Package

squash

Version: 1.2.1

Source

<https://quixdb.github.io/squash>

License text

See "[MIT License](#)" on page 759.

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Package

Apache Commons CLI
Version 1.3.1

Source

<http://commons.apache.org/cli>

License text

See "[Apache License, version 2.0](#)" on page 637.

Package

Apache Commons Codec
Version 1.10

Source

<http://commons.apache.org/codec>

License text

See "[Apache License, version 2.0](#)" on page 637.

Package

Apache Commons Collections
Version 3.2.1

Source

<http://commons.apache.org/collections>

License text

See "[Apache License, version 2.0](#)" on page 637.

Package

Apache Commons Compress
Version 1.12

Source

<http://commons.apache.org/compress>

License text

See "[Apache License, version 2.0](#)" on page 637.

Package

Apache Commons Fileupload
Version 1.3.3

Source

<http://commons.apache.org/fileupload>

License text

See "[Apache License, version 2.0](#)" on page 637.

Package

Apache Commons IO
Version 2.5

Source

<http://commons.apache.org/io>

License text

See "[Apache License, version 2.0](#)" on page 637.

Package

Apache Commons Lang
Versions 2.6 and 3.6

Source

<http://commons.apache.org/lang>

License text

See "[Apache License, version 2.0](#)" on page 637.

Package

Apache Commons Logging
Version 1.2

Source

<http://commons.apache.org/logging>

License text

See "[Apache License, version 2.0](#)" on page 637.

Package

Apache Commons Net
Version 3.5

Source

<http://commons.apache.org/net>

License text

See "[Apache License, version 2.0](#)" on page 637.

Package

Apache Log4j
Version 2.11.1

Source

<https://logging.apache.org/log4j/2.x>

License text

See "[Apache License, version 2.0](#)" on page 637.

Package

Apache Struts 2
Version 2.5.18

Source

<http://struts.apache.org/2.x>

License text

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Package

ASM
Version 5.1

Source

<http://asm.ow2.org>

Proprietary notice

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License text

See "[ASM License](#)" on page 645.

Package

Bootstrap Switch
Version 3.0.2

Source

<http://www.bootstrap-switch.org>

License text

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Package

Bouncy Castle Crypto APIs
Version 1.56

Source

<http://www.bouncycastle.org>

Proprietary notice

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(<https://www.bouncycastle.org>)

License text

See "[Bouncy Castle License](#)" on page 647.

Package

Derquinse Commons
Version 1.0.12

Source

<http://commons.derquinse.net>

License text

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Package

flashrom

Version 0.9.6.1-patched-r1653

Source

<http://www.flashrom.org>

License text

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Package

flot

Version 1.1

Source

<http://www.flotcharts.org>

License text

See "[MIT License](#)" on page 759.

Package

Freemarker

Version 2.3.28

Source

<https://freemarker.apache.org>

License text

See "[Apache License, version 2.0](#)" on page 637.

Package

google-gson

Version 2.8.0

Source

<http://code.google.com/p/google-gson>

License text

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Package

Google Guava
Version 21.0

Source

<http://code.google.com/p/guava-libraries>

License text

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Package

Google Javascript Closure Compiler
Version 20160713

Source

<https://github.com/google/closure-compiler>

License text

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Package

HttpComponents Client
Version 4.5.3

Source

<http://hc.apache.org/httpcomponents-client-ga/index.html>

License text

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Package

ImgBurn
Version 2.5.8.0

Source

<http://www.imgburn.com>

License

Freeware

Package

javaassist
Version 3.20.0

Source

<http://www.javassist.org>

License text

See "[Javaassist License](#)" on page 747.

Package

Jaxb-impl, Jaxb-api
Versions 2.2.11 (Jaxb-impl) and 2.2.12-b140109.1041 (Jaxb-api)

Source

<http://jaxb.java.net/2.2.6>

License text

See "[Common Development and Distribution License \(CDDL\), version 1.1](#)" on page 666.



Note: Source code for Jaxb-impl is available on request.

Package

Jersey
Version 1.19.1

Source

<http://jersey.java.net>

License text

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Note: Source code for Jersey is available on request.

Package

jQuery
Version 1.11

Source

<http://https://jquery.org>

License text

See "[MIT License](#)" on page 759.

Package

jQuery Match Height
Version 0.5.2

Source

<http://brm.io/jquery-match-height>

License text

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Package

jsr-305
Version 3.0.1

Source

<http://code.google.com/p/jsr-305>

License text

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Package

jsr311
Version 1.1.1

Source

<http://jsr311.java.net>

License text

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Note: Source code for jsr311 is available on request.

Package

OGNL

Version 3.1.15

Source

<https://commons.apache.org/proper/commons-ognl>

License text

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Package

Oracle Javamail

Version 1.4.5

Source

<http://www.oracle.com/technetwork/java/javamail/index.html>

License text

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Note: Source code for Oracle Javamail is available on request.

Package

Postgresql Jdbc

Version 9.4.1209

Source

<http://jdbc.postgresql.org>

Proprietary notice

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License text

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Package

PuTTY
Version 0.70

Source

<http://www.chiark.greenend.org.uk/~sgtatham/putty>

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License text

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Package

Rawrite32
Version 1.0.6.0

Source

<http://www.netbsd.org/~martin/rawrite32>

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Package

sbu
Version 2.1.0

Source

<http://www.seagate.com>

License text

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Package

ScrutinyCLI
Version 17.1.0.0

Source

<http://www.broadcom.com>

License text

See "[Broadcom License](#)".

Package

SeaChest_104_64
Version 1.0.4-1_2_1

Source

<http://www.seagate.com>

License text

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Package

Seagate IPMITOOL
Version 1.8.18-STX1

Source

<http://www.seagate.com>

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Package

sescli
Version N/A

Source

<http://www.seagate.com>

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Package

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Version N/A

Source

<http://www.seagate.com>

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Package

slu
Version 2.0.1

Source

<http://www.seagate.com>

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Package

suu
Version 2.3.1

Source

<http://www.seagate.com>

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syslog4j
Version 0.9.57

Source

<https://github.com/graylog-labs/syslog4j-graylog2>

License text

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Package

Velocity
Version 1.7

Source

<http://velocity.apache.org>

License text

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Package

wbcli
Version N/A

Source

<http://www.seagate.com>

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Package

wbdownload
Version N/A

Source

<http://www.seagate.com>

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Package

01-down-script
Version 2.56.0 (Linux kernel 3.14.17)

Source

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Note: American Megatrends® Incorporated (AMI) has modified 01-down-script. The modified source code is available on request.

Package

01-post-down-script
Version 2.56.0 (Linux kernel 3.14.17)

Source

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Package

01-pre-up-script
Version 2.56.0 (Linux kernel 3.14.17)

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Package

01-up-script
Version 2.56.0 (Linux kernel 3.14.17)

Source

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Package

25-post-down-vlan
Version 2.56.0 (Linux kernel 3.14.17)

Source

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Package

25-pre-up-bonding
Version 2.56.0 (Linux kernel 3.14.17)

Source

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Package

60-post-down-bonding
Version 2.56.0 (Linux kernel 3.14.17)

Source

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Package

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Version 2.56.0 (Linux kernel 3.14.17)

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Package

AMI SDK
Version RR11

Source

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Package

arpflux.sh
Version 2.56.0 (Linux kernel 3.14.17)

Source

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Package

Broadcom Cub Expander SDK
Version 0.4.1.0

Source

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Package

init-sp.sh
Version 2.56.0 (Linux kernel 3.14.17)

Source

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Package

Insyde BIOS (combines proprietary and open source packages)
Version 05.21.51.0060

Source

For open source packages within Insyde BIOS,
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Package

iUSB.ko
Version 2.8.0

Source

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Package

Jam STAPL Byte-Code Player
Version 2.2

Source

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Package

kcs_hw.ko
Version 2.3.0

Source

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Package

libgcc_s.so.1
Version 3.4

Source

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Package

libgcc_s.so.1
Version 4.7

Source

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Package

lighttpd
Version 1.4.35

Source

<https://github.com/lighttpd>

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Package

mailbox.ko
Version 1.0.0

Source

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Note: AMI has modified mailbox.ko. The modified source code is available on request.

Package

modules.dep
Version 2.56.0 (Linux kernel 3.14.17)

Source

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Package

nwhelperapi.sh

Version 2.56.0 (Linux kernel 3.14.17)

Source

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Package

platform.ko

Version 1.0.0

Source

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Note: AMI has modified platform.ko. The modified source code is available on request.

Package

reservedusers

Version 2.56.0 (Linux kernel 3.14.17)

Source

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Note: AMI has modified reservedusers. The modified source code is available on request.

Package

ssl ssh-main
Version 1.0.2n

Source

<https://www.openssl.org/source>

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Package

ssl sshd
Version 1.0.2n

Source

<https://www.openssl.org/source>

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Package

telnetd
Version 2.56.0 (Linux kernel 3.14.17)

Source

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Note: AMI has modified telnetd. The modified source code is available on request.

Package

timezone
Version 2.10.0

Source

<https://mirrors.edge.kernel.org/pub/linux/kernel/v3.x>

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Note: AMI has modified timezone. The modified source code is available on request.

Package

udhcpd.script
Version 2.56.0 (Linux kernel 3.14.17)

Source

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Note: AMI has modified udhcpd.script. The modified source code is available on request.

Package

vfprintf.c
Version 1.50

Source

<https://github.com/lattera/glibc/blob/master/stdio-common/vfprintf.c>

License text

See "[vfprintf License](#)" on page 810.



Note: Seagate has modified `vfprintf.c`. The modified source code is available on request.

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Version 3, 29 June 2007

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Python 3.5.1 License

History and License

History of the software

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

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

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

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2.1	2.0+1.6.1	2001	PSF	no
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2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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A C-program for MT19937, with initialization improved 2002/1/26. Coded by Takuji Nishimura and Makoto Matsumoto.

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

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The `socket` module uses the functions, `getaddrinfo()`, and `getnameinfo()`, which are coded in separate source files from the WIDE Project, <http://www.wide.ad.jp/>.

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Modified by Jack Jansen, CWI, July 1995:

- Use `binascii` module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

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SipHash24

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Original location:

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

Solution inspired by code from:

Samuel Neves ([superCop/crypto_auth/siphash24/little](https://github.com/superCop/crypto_auth/siphash24/little))

djb ([superCop/crypto_auth/siphash24/little2](https://github.com/superCop/crypto_auth/siphash24/little2))

Jean-Philippe Aumasson (<https://131002.net/siphash/siphash24.c>)

strtod and dtoa

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jloup@gzip.org

Mark Adler
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cfuhash

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

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zlib License

zlib.h -- interface of the 'zlib' general purpose compression library version 1.2.2, October 3rd, 2004

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The HCP S Series Node packages binary firmware files required for the operation of specific devices. This firmware requires a variety of licenses.

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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
agere_ap_fw.bin -- 9.48 Hermes I

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The Linux driver architecture was based on two modules, the MSF (Module specific functions) and the HCF (Hardware Control Functions). Included in the HCF is run-time firmware (binary format) which is downloaded into the RAM of the Hermes 1/2/2.5 WMAC.

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Viren Pathare
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Atmel Firmware License

This package contains firmware images for use with the driver for atmel at76c50x cards in the linux 2.6 kernel it also contains firmware images for the USB driver from <http://at76c503a.berlios.de/>

The preferred way to load these firmware images in to use the firmware-loading facility of the Linux hotplug system. Prerequisites for this are a kernel compiled with CONFIG_FW_LOADER and the Linux hotplug scripts later than 2003_10_07. (Check for the existence of /etc/hotplug/firmware.agent to ensure that your hotplug scripts are sufficiently up to date.) You will also need to have sysfs mounted: add a line like this to /etc/fstab, if it is not already there.

```
none    /sys    sysfs  defaults    0    0
```

If you do not wish to use the hotplug system, this package includes a "push" firmware loader, `atmel_fwl`. You should arrange to run this as root from a network-startup script or PCMCIA script `_before_` the interface is brought up. The command is simply

```
atmel_fwl <interface> /path/to/firmware
```

for instance

```
/sbin/atmel_fwl eth0 /usr/lib/hotplug/firmware/atmel_at76c502.bin
```

To install the firmware package, simply run the `install.sh` script. That script will remove any old versions of the package that you have installed, and install the files in the correct locations.

Selecting the correct firmware image.

There are multiple firmware images in this package and the correct one must be used. If the hotplug firmware loading mechanism is in use and the driver recognises the card in its internal database, it will automatically select the correct firmware image. If the card is not in the database the driver will log a message and default to the at76c502 image. If this is not correct, the default can be overridden with the "firmware" module parameter. Since there is only one firmware image for PCI cards (at76c506) the driver should always select the correct one for

them. If your card is not recognised, please send the result of running the 'dump_cis' command to simon@thekelleys.org.uk so that it can be included in future releases.

If using the "push" firmware loader there is no automatic selection of firmware image, you should ensure that the correct image is given in the `atmel_fwl` command-line.

Note that there are two versions of many of the firmware images, the second one with the suffix "-wpa". These are later releases from Atmel which support WPA privacy. They are only usable by versions of the driver greater than 0.9. If you use hotplug to load your firmware then all will be fine, drivers earlier than 0.9 will ignore the "-wpa" drivers and drivers after 0.9 will use them if available, or default to the non-wpa ones if not. If you have to select a firmware image manually, be sure not to use the "-wpa" one unless your in-kernel driver code is version 0.9 or better. Sadly, as of version 0.9, the in-kernel driver does not actually support the setting of WPA passphrases.

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Chelsio Communication Terminator 4/5 ethernet controller firmware

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Firmware provided by Patrick Boettcher <pboettcher@dibcom.fr> to Devin Heitmueller <dheitmueller@kernellabs.com> on October 8, 2009.

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go7007 Firmware License

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

*** Please see the file RELEASE-NOTES for important last-minute updates

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:

<code>CONFIG_HOTPLUG</code>	- Support for hot-pluggable devices
<code>CONFIG_MODULES</code>	- Enable loadable module support
<code>CONFIG_KMOD</code>	- Automatic kernel module loading
<code>CONFIG_FW_LOADER</code>	- Hotplug firmware loading support
<code>CONFIG_I2C</code>	- I2C support
<code>CONFIG_VIDEO_DEV</code>	- Video For Linux
<code>CONFIG_SOUND</code>	- Sound card support
<code>CONFIG_SND</code>	- Advanced Linux Sound Architecture

CONFIG_USB	- Support for Host-side USB
CONFIG_USB_DEVICEFS	- USB device filesystem
CONFIG_USB_EHCI_HCD	- EHCI HCD (USB 2.0) 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 Cypress 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:

TV band	force_band
-----	-----
PAL B/G	B
PAL I	I
PAL D/K	D
SECAM L	L

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.

TV band	Audio subcarrier	force_mpx_mode
-----	-----	-----
PAL B/G	Mono (default)	1
PAL B/G	A2	2
PAL B/G	NICAM	3
PAL I	Mono (default)	4
PAL I	NICAM	5
PAL D/K	Mono (default)	6
PAL D/K	A2 (1)	7

PAL D/K	A2 (2)	8
PAL D/K	A2 (3)	9
PAL D/K	NICAM	10
SECAM L	Mono (default)	11
SECAM L	NICAM	12

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:

__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 max_b_frames 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:

```
GO7007_MPEG_VIDEO_MPEG1
GO7007_MPEG_VIDEO_MPEG2
GO7007_MPEG_VIDEO_MPEG4
```

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

__u32

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 for at76_usb Linux driver

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Compatibility

The included firmware files are intended only for use with Linux at76_usb driver for USB devices using at76c503, at76c505 and at76c505a chipsets. This firmware is not intended for any other OS or driver.

This package only includes only the firmware versions known to work best with the current at76_usb driver.

Installation

The firmware is loaded by the kernel using hotplug or udev. Firmware download is supported by udev starting with version 066. If an older version of udev is installed, then hotplug is likely responsible for the firmware loading.

If you don't have either of udev or hotplug, please install either of them, preferably using your distribution's facilities (yum, apt-get, urpmi or a similar package manager).

Every supported device need just one firmware file, and the driver knows which firmware to load based on the USB ID of the device. But if you don't know which firmware file your device needs, it's a safe bet to install them all.

For the firmware to be found and loaded, it should be copied to a directory where hotplug or udev can find it.

When udev is used, this directory is normally called /lib/firmware. If hotplug is handling the firmware, it would normally look in following directories:

```
/lib/hotplug/firmware
/usr/local/lib/hotplug/firmware
/usr/lib/hotplug/firmware
```

For example, if you determine that the firmware is loaded from /lib/firmware, copy the firmware files there as root:

```
cp *.bin /lib/firmware
```

The firmware download is initiated by the driver after it detects the appropriate hardware. No additional scripts or utilities are needed to load the firmware. See kernel log (using the `dmesg` command) to make sure that the firmware download has succeeded.

Contact information

Please don't contact Atmel about this firmware. Atmel neither wrote the `at76_usb` driver nor packaged this firmware. Their good will should not be punished by misdirected support requests.

Please don't write any individual developers personally. The driver is developed collectively, and the discussion about the driver should be open for others.

The mailing list for developers of the `at76_usb` driver is

`at76c503a-develop@lists.berlios.de`

The mailing list for users of the `at76_usb` driver is

`at76c503a-user@lists.berlios.de`

You may also want to download the latest version of the driver and the firmware and check the included documentation, which may be more current than this document.

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