

# Open Source Declaration

Advanced Realtime Tracking GmbH

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## 2 Products using Open Source Software

This chapter lists all Open Source Software used by corresponding **ART** products.

### 2.1 *DTrack2*

The ***DTrack2*** software consists of the backend component which runs on **ARTTRACK** controller and the frontend component which runs on Windows or Linux computer.

#### 2.1.1 *DTrack2* Backend

The ***DTrack2*** backend uses a 32-bit Gentoo Linux OS with some system packages. The following table lists all the packages that may or may not be used by the backend, which nevertheless are the part of the Linux system distributed together with an **ARTTRACK** controller. The Open Source software used in the backend is depicted in Table 2.1. It is not modified and is not linked with any software which has different incompatible license. Modified packages are listed in Table 2.2.

Table 2.1: Open Source Packages used in ***DTrack2*** backend

Package	License
acl	<a href="#">LGPL-2.1</a>
attr	<a href="#">LGPL-2.1</a>
aufs3	<a href="#">GPL-2</a>
baselayout	<a href="#">GPL-2</a>
bash	<a href="#">GPL-3</a>
binutils	<a href="#">GPL-3</a> <a href="#">LGPL-3</a>
boost	<a href="#">BSL</a>
bzip2	<a href="#">BZIP2</a>
ca-certificates	<a href="#">MPL-1.1</a>
coreutils	<a href="#">GPL-3</a>
dbus	<a href="#">GPL-2</a>
debianutils	<a href="#">BSD-4</a> <a href="#">GPL-2</a> <a href="#">SMAIL</a>
dhcpcd	<a href="#">BSD-2</a>
diffutils	<a href="#">GPL-2</a>
dmidecode	<a href="#">GPL-2</a>
dracut	<a href="#">GPL-2</a>

Table 2.1: Open Source Packages used in *DTrack2* backend (continued)

Package	License
e2fsprogs	GPL-2 LGPL-2 BSD-3
e2fsprogs-libs	GPL-2
Eigen	BSD-3 Minpack MPL-2
elfutils	GPL-2-with-exceptions
eselect	GPL-2
eselect-package-manager	GPL-2
eselect-python	GPL-2
eselect-vi	GPL-2
ethtool	GPL-2
expat	MIT
file	BSD-2 BSD-4
findutils	GPL-3
flashrom	GPL-2
fuse	GPL-2
gawk	GPL-2
gcc	GPL-3.0-with-GCC-exception LGPL-3 FDL-1.2
gentoo-sources	GPL-2
gettext	GPL-3 LGPL-2
glib	LGPL-2
glibc	LGPL-2
gmp	LGPL-3
gperf	GPL-2
gpm	GPL-2
grep	GPL-3
gzip	GPL-3
hwids	GPL-2
ifplugd	GPL-2
intltool	GPL-2
iproute2	GPL-2
iptables	GPL-2
iputils	BSD-4
kbd	GPL-2
kmod	LGPL-2
less	GPL-3 BSD-2
libarchive	BSD-2 BSD-3 BSD-4
libcap	GPL-2 BSD-3
libdaemon	LGPL-2.1
libffi	MIT

## 2 Products using Open Source Software

Table 2.1: Open Source Packages used in *DTrack2* backend (continued)

Package	License
libgcrypt	LGPL-2.1 MIT
libgpg-error	GPL-2 LGPL-2.1
libmix	GPL-2
libpcrc	BSD-3
libraw1394	LGPL-2.1
libtool	GPL-2
libusb	LGPL-2.1
libusb-compat	LGPL-2.1
libxml2	MIT
libxslt	MIT
linux-headers	GPL-2
localepurge	GPL-2
mpc	LGPL-2.1
mpfr	LGPL-2.1
ncurses	BSD MIT
net-tools	GPL-2
nss-myhostname	LGPL-2.1
ntp	HPND ISC BSD-3 BSD-4
openssh	BSD and other
openssl	openssl SSLeay
paludis	GPL-2 vim
patch	GPL-2
pax-utils	GPL-2
pciutils	GPL-2
pkgconfig	GPL-2
popt	MIT
procps	GPL-2
psmisc	GPL-2
pv	Artistic-2
readline	GPL-3
rsync	GPL-3
sed	GPL-3
shadow	BSD-2 BSD-3 BSD-4 GPL-2
socat	GPL-2
systemd	GPL-2 LGPL-2.1 MIT
sysvinit	GPL-2
tar	GPL-3
tcp-wrappers	other



Table 2.1: Open Source Packages used in *DTrack2* backend (continued)

Package	License
udev	LGPL-2.1 MIT GPL-2
udev-init-scripts	GPL-2
usbutils	GPL-2
util-linux	GPL-2 GPL-3 LGPL-2.1 BSD-3 BSD-4 MIT public-domain
vim	vim
wget	GPL-3
which	GPL-3
xz-utils	LGPL-2.1
zlib	ZLIB

Table 2.2: Open Source Packages modified by *ART* used in *DTrack2*

Package	Original License	License of Modified part
libdc1394	LGPL-2.1	LGPL-2.1
log4cpp	LGPL-2.1	LGPL-2.1
linux-3.5.0 kernel	GPL-2	GPL-2

### 2.1.2 *DTrack2* Frontend

The *DTrack2* frontend is an application for Windows and Linux for controlling the backend. The unmodified Open Source software used in *DTrack2* frontend is listed in Table 2.3. There is no modified Open Source software used in *DTrack2* frontend.

Table 2.3: Open Source Packages used in *DTrack2* frontend

Package	License
Qt	LGPL-2.1
qwt	LGPL-2.1 with exceptions

## 2.2 SYNCARD3

*SYNCARD3* is a plug-in card for the controller which serves for synchronizing the cameras. Its Atmel microcontroller is using the unmodified software listed in Table 2.4.

Table 2.4: Open Source Packages used in *SYNCARD3*

Package	License
Atmel Software Framework	ASF

## 2.3 ARTTRACK5 and ARTTRACK5/C Cameras

The **ARTTRACK5** and **ARTTRACK5/C** cameras have an Embedded Linux system installed, which uses the Open Source packages listed in Tables 2.5 and 2.6. The packages listed in Table 2.6 are modified by **ART**, while Table 2.5 contains only software which is not modified and is not linked with any software which has different incompatible license.

Table 2.5: Open Source Packages used in **ARTTRACK5**

Package	License
apt	GPL-2
base-files	GPL-2
base-passwd	GPL-2
bash	GPL-3
bridge-utils	GPL-2
busybox	GPL-2
bzip2	BZIP2
curl	Modified MIT/ISC
devmem2	GPL-2
dhcpc-client	ISC
dpkg	GPL-2
eglibc	GPL-2 LGPL-2.1
elfutils	GPL-2-with-exceptions
ethtool	GPL-2
exfat-utils	GPL-3
fuse	GPL-2 LGPL-2
fuse-exfat	GPL-3
gcc-runtime	GPL-3-with-GCC-exception
gdbserver	GPL-2 GPL-3 LGPL-2 LGPL-3
i2c-tools	GPL-2
initscripts	GPL-2
iputils	BSD-4 GPL-2
kmod	GPL-2 LGPL-2.1
libcap	BSD-3 GPL-2
libevent	BSD-2 BSD-3 ISC
libgcrypt	GPL-2 LGPL-2.1
libgnutls	GPL-3 LGPL-2.1
libgpg-error	GPL-2 LGPL-2.1
libnfsidmap	BSD-2 BSD-3
libnl	LGPL-2.1
libpcap	BSD-2 BSD-3 BSD-4
libtasn1	GPL-3 LGPL-2.1

Table 2.5: Open Source Packages used in **ARTTRACK5** (continued)

Package	License
libusb-compat	LGPL-2.1
libusb	LGPL-2.1
mtd-utils	GPL-2
nano	GPL-2
ncurses	BSD MIT
netbase	GPL-2
nfs-utils	GPL-2
openssh	BSD and other
openssl	openssl SSLeay
opkg	GPL-2
portmap	BSD-4
procps	GPL-2 LGPL-2
run-postinsts	MIT
shadow	BSD-2 BSD-3 BSD-4 GPL-2
sysstat	GPL-2
sysvinit	GPL-2
sysvinit-inittab	GPL-2
tcp-wrappers	other
tcpdump	BSD-2 BSD-3 BSD-4
tinylogin	GPL-2
u-boot-fw-utils	GPL-2
udev	GPL-2 LGPL-2.1
update-rc.d	GPL-2
usbutils	GPL-2
util-linux	GPL-2 GPL-3 LGPL-2.1 BSD-3 BSD-4 MIT public-domain
zlib	ZLIB
zo	GPL-2

Table 2.6: Open Source Packages modified by **ART** used in **ARTTRACK5**

Package	Original License	License of Modified part
kernel-3.8.0-xilinx	GPL-2	GPL-2
U-Boot	GPL-2	GPL-2

### 2.4 *TRACKPACK/E* Camera

The *TRACKPACK/E* camera has a flash control module on Atmel microcontroller which uses unmodified Open Source packages listed in Table 2.7.

Table 2.7: Open Source Packages used in *TRACKPACK/E*

Package	License
Atmel Software Framework	ASF

### 2.5 *ART-Human*

*ART-Human* is a software which allows an ART optical tracking systems to be used for Motion Capture. It is using the Open Source software listed in Table 2.8, which is not modified and is not linked with any software which has different incompatible license. Table 2.9 lists modified Open Source software used by *ART-Human*.

Table 2.8: Open Source Packages used in ART-Human

Package	License
Boost	BSL
Eigen	BSD-3 Minpack MPL-2
Qt	LGPL-2.1
VRPN	BSL with Additional Requests

Table 2.9: Open Source Packages modified by *ART* used in ART-Human

Package	Original License	License of Modified part
log4cpp	LGPL-2.1	LGPL-2.1

### 2.6 *ART-Satellite-Merger*

*ART-Satellite-Merger* is a software which can collect tracking data from two tracking systems to generate a single tracking output. For instance, to be able to track both inside and outside of a car without interruptions, one could use two tracking systems and *ART-Satellite-Merger*. The Open Software used in *ART-Satellite-Merger* is represented in Table 2.10. It is not modified and is not linked with any software which has different incompatible license.

Table 2.10: Open Source Packages used in *ART-Satellite-Merger*

Package	License
Eigen	BSD-3 Minpack MPL-2
Qt	LGPL-2.1

## 2.7 DTrackRecorder

The DTrackRecorder is a simple tool for recording and playback of UDP tracking data of *DTrack2*. The unmodified Open Source software used in DTrackRecorder is listed in Table 2.11. There is no modified Open Source software used in DTrackRecorder.

Table 2.11: Open Source Packages used in DTrackRecorder

Package	License
Qt	<a href="#">LGPL-2.1</a>

## 2.8 FingerTracking-Viewer

A FingerTracking-Viewer is a simple tool for demonstration of our FingerTracking technology. The unmodified Open Source software used in FingerTracking-Viewer is listed in Table 2.12. There is no modified Open Source software used in FingerTracking-Viewer.

Table 2.12: Open Source Packages used in FingerTracking-Viewer

Package	License
DTrackSDK	<a href="#">BSD-3</a>
Qt	<a href="#">LGPL-2.1</a>
qwt	<a href="#">LGPL-2.1 with exceptions</a>

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3.1.3	GNU Library General Public License v2.0	36
3.1.4	GNU Lesser General Public License v2.1	47
3.1.5	GNU Lesser General Public License v3.0	58
3.1.6	GNU Free Documentation License v1.2	61
3.1.7	Copyrights	70

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```

The hypothetical commands 'show w' and 'show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

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However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline

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functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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libelf.h  
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src/compress.c: * Copyright (c) Ian F. Darwin 1986-1995.
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```

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tftpsubs.c: * Copyright (c) 1983 Regents of the University of California.
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**3.3.2.8 libarchive****BSD-2**

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test/foldkeys.c: * Copyright (c) 2006 Free Software Foundation, Inc.
test/testscanw.c: * Copyright (c) 1998-2002,2006 Free Software Foundation, Inc.
test/README:-- Copyright (c) 1998-2010,2011 Free Software Foundation, Inc.
test/filter.c: * Copyright (c) 1998-2008,2010 Free Software Foundation, Inc.
test/package/debian/copyright:    Copyright (c) 1998-2010,2011 Free Software
Foundation, Inc.
test/package/debian/copyright:Copyright: 1994 X Consortium
test/demo_keyok.c: * Copyright (c) 2002-2003,2006 Free Software Foundation, Inc.
test/xterm-88color.dat:# Copyright (c) 2005-2006,2009 Free Software Foundation,
Inc.
test/test_arrays.c: * Copyright (c) 2007,2008 Free Software Foundation, Inc.
test/rain.c: * Copyright (c) 1998-2009,2010 Free Software Foundation, Inc.
test/firstlast.c: * Copyright (c) 1998-2009,2010 Free Software Foundation, Inc.
test/linedata.h: * Copyright (c) 2009,2010 Free Software Foundation, Inc.
test/tracemunch:# Copyright (c) 1998-2002,2005 Free Software Foundation, Inc.
test/demo_panels.c: * Copyright (c) 2007-2008,2010 Free Software Foundation,
Inc.
test/gdc.6:."\ Copyright (c) 1998-2003,2006 Free Software Foundation, Inc.
test/programs:# Copyright (c) 2006-2008,2009 Free Software Foundation, Inc.
test/test_addchstr.c: * Copyright (c) 2009,2010 Free Software Foundation, Inc.
T0-D0:-- Copyright (c) 1998-2010,2011 Free Software Foundation, Inc.

```

### 3.4.2.7 popt

```

COPYING: Copyright (c) 1998 Red Hat Software
install-sh: # Copyright (C) 1994 X Consortium

```

### 3.4.2.8 run-postinsts

```

# Copyright 2007 Openedhand Ltd.

```

#### 3.4.2.9 systemd

```
build-aux/install-sh:# Copyright (C) 1994 X Consortium
src/readahead/sd-readahead.c: Copyright 2010 Lennart Poettering
src/libsystemd-daemon/sd-daemon.c: Copyright 2010 Lennart Poettering
src/systemd/sd-readahead.h: Copyright 2010 Lennart Poettering
src/systemd/sd-daemon.h: Copyright 2010 Lennart Poettering
src/journal/sparse-endian.h:/* Copyright (c) 2012 Josh Triplett
                                <josh@joshtriplett.org>
```

#### 3.4.2.10 udev

```
build-aux/install-sh:# Copyright (C) 1994 X Consortium
src/sd-daemon.c: Copyright 2010 Lennart Poettering
src/sd-daemon.h: Copyright 2010 Lennart Poettering
```

#### 3.4.2.11 util-linux

```
config/install-sh:# Copyright (C) 1994 X Consortium
sys-utils/flock.1:." Copyright 2003-2006 H. Peter Anvin - All Rights Reserved
sys-utils/flock.c:/* Copyright 2003-2005 H. Peter Anvin - All Rights Reserved
text-utils/tailf.c: * Copyright 1996, 2003 Rickard E. Faith (faith@acm.org)
```

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

### 3.7.3 ca-certificates

#### 3.7.3.1 Generic MPL Text

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ca-certificates was originally written and maintained by Fumitoshi UKAI <ukai@debian.or.jp> on Mon, 7 Jan 2002 21:16:51 +0900.

The original source can always be found at:  
<ftp://ftp.debian.org/dists/unstable/main/source/>

sbin/update-ca-certificates:

```
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```

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mozilla/certdata2pem.py:

```
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```

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 */
```

#### 3.7.4.3 lib/ssh.c file

```
/*
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 */
```

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```

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 */

```

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```
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```

```

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```
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```

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```
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```

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```

```
*/
```

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3. [3]Bernd Altmeier <altmeier@atlsoft.de> hopf Elektronik serial line and PCI-bus devices
4. [4]Viraj Bais <vbais@mailman1.intel.com> and [5]Clayton Kirkwood <kirkwood@striderfm.intel.com> port to WindowsNT 3.5
5. [6]Michael Barone <michael,barone@lmco.com> GPSVME fixes
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42. [46] Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code maintenance
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45. [49] Wilfredo Sánchez <wsanchez@apple.com> added support for NetInfo
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47. [51] Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of

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- 48. [52]Ray Schnitzler <schnitz@unipress.com> Unixware1 port
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  - 51. [55]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
  - 52. [56]Kenneth Stone <ken@sdd.hp.com> HP-UX port
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  - 54. [58]Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp>TRAK clock driver
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rights reserved.
test/pkits-test.pl:# Copyright (c) 2008 The OpenSSL Project. All

```

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```
rights reserved.
test/igettest.c: * Copyright (c) 2006 The OpenSSL Project.  All rights
reserved.
util/mkerr.pl:" * Copyright (c) 2001-2011 The OpenSSL Project.  All
rights reserved.\n",
util/mkerr.pl: * Copyright (c) 1999-2011 The OpenSSL Project.  All
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util/add_cr.pl:/* Copyright (C) 1995-1998 Eric Young
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```

#### 3.7.12 pv

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### 3.7.13 tcp-wrappers

#### 3.7.13.1 DISCLAIMER file

```
-----  
  
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```

#### 3.7.13.2 strcasecmp.c file

```
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*/
```

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```

config/install-sh:# FSF changes to this file are in the public domain.
include/pathnames.h: * This code is in the public domain.
lib/md5.c: * This code is in the public domain; do with it what you wish.
login-utils/newgrp.1:.\ " Original author unknown.
                This man page is in the public domain.
misc-utils/ddate.c: This program is in the public domain.
                Distribute freely. Or not.
misc-utils/rename.1:.\ " Written by Andries E. Brouwer (aeb@cw.nl)
                .\ " Placed in the public domain
po/uk.po:# This file is put in the public domain.
po/ru.po:# This file is put in the public domain.
sys-utils/setsid.c:  * Rick Sladkey <jrs@world.std.com>
                * In the public domain.
sys-utils/setsid.1:.\ " Rick Sladkey <jrs@world.std.com>
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```

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University of North Carolina at Chapel Hill,  
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## 3.7.16 zlib

### 3.7.16.1 README file (only relevant section)

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