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NancyFx

Version: 1.4.1 (to be updated to 1.4.4 by the end of January)

Purpose: http server for UI pages and restful APIs

Projects: Automate VX, Automate Select

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Entity Framework

Version: 6.0.0

Purpose: dependency to support Nancy & .Net Linq queries

Projects: Automate VX, Automate Select

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Konva

Version: 7.2.5

Purpose: 2D graphics used in 1 Beyond Room Designer

Projects: 1 Beyond Room Designer, Automate VX

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Modified work Copyright (C) 2014 - present by Anton Lavrenov (Konva)

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jose-jwt

Version: 2.1.0

Purpose: Authentication

Projects: Automate VX, Automate Select

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Newtonsoft.Json

Version: 12.0.3

Purpose: Used to serialize/deserialize API bodies

Projects: Automate VX, Automate Select

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ffmpeg

Version:

Purpose: Used to concatenate video pieces to allow pause/resume recording

Projects: Automate VX, Automate Select

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Some optional parts of FFmpeg are licensed under the GNU General Public License version 2 or later (GPL v2+). See the file `COPYING.GPLv2` for details. None of these parts are used by default, you have to explicitly pass `--enable-gpl` to configure to activate them. In this case, FFmpeg's license changes to GPL v2+.

Specifically, the GPL parts of FFmpeg are:

- libpostproc
- optional x86 optimization in the files
 - `libavcodec/x86/flac_dsp_gpl.asm`
 - `libavcodec/x86/idct_mmx.c`
 - `libavfilter/x86/vf_removegrain.asm`
- the following building and testing tools
 - `compat/solaris/make_sunver.pl`
 - `doc/t2h.pm`

- `doc/texi2pod.pl`
- `libswresample/tests/swresample.c`
- `tests/checkasm/*`
- `tests/tiny_ssim.c`
- the following filters in libavfilter:
 - `signature_lookup.c`
 - `vf_blackframe.c`
 - `vf_boxblur.c`
 - `vf_colormatrix.c`
 - `vf_cover_rect.c`
 - `vf_cropdetect.c`
 - `vf_delogo.c`
 - `vf_eq.c`
 - `vf_find_rect.c`
 - `vf_fspp.c`
 - `vf_histeq.c`
 - `vf_hqdn3d.c`
 - `vf_kerndeint.c`
 - `vf_lensfun.c` (GPL version 3 or later)
 - `vf_mcdeint.c`
 - `vf_mpdecimate.c`
 - `vf_nnedi.c`
 - `vf_owdenoise.c`
 - `vf_perspective.c`
 - `vf_phase.c`
 - `vf_pp.c`
 - `vf_pp7.c`
 - `vf_pullup.c`
 - `vf_repeatfields.c`
 - `vf_sab.c`
 - `vf_signature.c`
 - `vf_smartblur.c`
 - `vf_spp.c`
 - `vf_stereo3d.c`
 - `vf_super2xsai.c`
 - `vf_tinterlace.c`
 - `vf_uspp.c`
 - `vf_vaguedenoiser.c`
 - `vsrc_mptestsrc.c`

Should you, for whatever reason, prefer to use version 3 of the (L)GPL, then the configure parameter `--enable-version3` will activate this licensing option for you. Read the file `COPYING.LGPLv3` or, if you have enabled GPL parts, `COPYING.GPLv3` to learn the exact legal terms that apply in this case.

There are a handful of files under other licensing terms, namely:

- * The files `libavcodec/jfdctfst.c`, `libavcodec/jfdctint_template.c` and `libavcodec/jrevdct.c` are taken from libjpeg, see the top of the files for licensing details. Specifically note that you must credit the IJG in the documentation accompanying your program if you only distribute executables. You must also indicate any changes including additions and deletions to those three files in the documentation.
- * `tests/reference.pnm` is under the expat license.

External libraries

FFmpeg can be combined with a number of external libraries, which sometimes affect the licensing of binaries resulting from the combination.

Compatible libraries

The following libraries are under GPL version 2:

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

When combining them with FFmpeg, FFmpeg needs to be licensed as GPL as well by passing `--enable-gpl` to configure.

The following libraries are under LGPL version 3:

- gmp
- libaribb24
- liblensfun

When combining them with FFmpeg, use the configure option `--enable-version3` to upgrade FFmpeg to the LGPL v3.

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

2.0. That license is incompatible with the LGPL v2.1 and the GPL v2, but not with version 3 of those licenses. So to combine these libraries with FFmpeg, the license version needs to be upgraded by passing `--enable-version3` to configure.

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

Incompatible libraries

There are certain libraries you can combine with FFmpeg whose licenses are not compatible with the GPL and/or the LGPL. If you wish to enable these libraries, even in circumstances that their license may be incompatible, pass `--enable-nonfree` to configure. This will cause the resulting binary to be unredistributable.

The Fraunhofer FDK AAC and OpenSSL libraries are under licenses which are incompatible with the GPLv2 and v3. To the best of our knowledge, they are compatible with the LGPL.

obs-websocket-dotnet

Version: 4.9.1

Purpose: Client to communicate with a remote OBS server

Projects: Automate VX

License:

MIT License

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obs-ndi

Version: 4.9.1

Purpose: to allow NDI input/output on OBS

Projects: Automate VX

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Version 2, June 1991

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obs

Version: 27.1.3

Purpose: to allow switching, recording, streaming, and output the camera feeds

Projects: Automate VX

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Version 2, June 1991

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websocket-sharp

Version: 1.0.1.0

Purpose: websocket server implementation in C#. Used by obs-websocket.dotnet

Project: Automate VX

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Rnci.SshNet

Version: 2020.0.1.0

Purpose: SSH communication between VX and peripheral devices

Projects: Automate VX

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BCrypt.Net

Version: 0.1.0

Purpose: licensing the product

Projects: Automate VX, Automate Select

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libavahi-common, libavahi-client

Version: 3

Purpose: advertising the 1bndi video stream on the network
Projects: 1bndi
License:

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Version 2.1, February 1999

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That's all there is to it!

libdbus-1

Version: 3

Purpose: inter-process communication between 1bndi and avahi

Projects: 1bndi

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Presentation Framework

Version: 4.0.30319

Purpose: User Interface

Projects: PTZController

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Windows Forms

Version: 4

Purpose: User Interface

Projects: KeyGenerator

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Python

Version: 3

Purpose: general purpose programming

Projects: ActImport, 1bsales

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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, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

Footnotes:

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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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Pandas

Version: 1.3.5

Purpose: Data Transformation

Projects: ActImport

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FileSaver.js

Version: 2.0.4

Purpose: saving user projects in a file

Projects: Room Designer, Automate VX

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JSZip

Version: 3.6.0

Purpose: compressing and packaging room design projects

Projects: Automate VX, Room Designer

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Software Installed on Automate VX Machine

VLC Media Player

Version: 3.0.15

Purpose: testing streams locally

Projects: Automate VX

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Version 2, June 1991

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Putty

Version: 0.74

Purpose: debugging cameras and microphones locally

Projects: Automate VX

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PacketSender

Version: 7.0.6

Purpose: send test commands to cameras

Projects: Automate VX

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Notepad++

Version: 8

Purpose: reading logs

Projects: Automate VX

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Version 3, 29 June 2007

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