




PreonLab 6.1.2

FOSS Disclosure

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FOSS component used	declared FOSS license
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Open Asset Import Library (assimp)	BSD-3-Clause
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Bullet Continuous Collision Detection and Physics Library	zlib license
Eigen	MPL2
expat - XML Parser Toolkit	MIT license
FreeType	FTL
Graphviz - Graph Visualization Software	Eclipse Public License
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PCRE	BSD-3-Clause
pybind11	BSD-3-Clause
Python	PSF
Qt	LGPL 3
QtPropertyBrowser	LGPL 3
svd3	MIT license
Units: A compile-time c++14 unit conversion library with no dependencies	MIT license

Table 1: Overview of FOSS components used by PreonLab 6.1.2.

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2.2.1 Alembic

URL	https://github.com/alembic/alembic
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Table 2: Alembic package details.

2.2.2 Open Asset Import Library (assimp)

URL	https://github.com/FIFTY2Technology/assimp
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Copyright Attribution	© 2006-2016, assimp team

Table 3: Open Asset Import Library (assimp) package details.

2.2.3 boost C++ libraries (used parts: Filesystem, Lexical Cast, Locale)

URL	https://www.boost.org/
Applicable License(s)	Boost license
Copyright Attribution	Authors: Beman Dawes, Kevlin Henney and Artyom Beilis

Table 4: boost C++ libraries (used parts: Filesystem, Lexical Cast, Locale) package details.

2.2.4 Bullet Continuous Collision Detection and Physics Library

URL	https://github.com/bulletphysics/bullet3
Applicable License(s)	zlib license
Copyright Attribution	© contributors to the Bullet Continuous Collision Detection and Physics Library. See license file for a list.

Table 5: Bullet Continuous Collision Detection and Physics Library package details.

2.2.5 Eigen

URL	http://eigen.tuxfamily.org
Applicable License(s)	MPL2
Copyright Attribution	© contributors to Eigen. See the license file for a list.

Table 6: Eigen package details.

2.2.6 expat - XML Parser Toolkit

URL	http://www.jclark.com/xml/expat.html
Applicable License(s)	MIT license
Copyright Attribution	© 1998, 1999, 2000 Thai Open Source Software Center Ltd, © 2001-2017 Expat maintainers

Table 7: expat - XML Parser Toolkit package details.

2.2.7 FreeType

URL	https://www.freetype.org/index.html
Applicable License(s)	FTL
Copyright Attribution	© 1996-2002, 2006 David Turner, Robert Wilhelm, and Werner Lemberg

Table 8: FreeType package details.

2.2.8 Graphviz - Graph Visualization Software

URL	https://www.graphviz.org/
Applicable License(s)	Eclipse Public License
Copyright Attribution	Authors: John Ellson, Emden Gansner, Yifan Hu, Stephen North, Don Caldwell, David Dobkin, Tim Dwyer, Eleftherios Koutsofios, Kiem-Phong Vo, Gordon Woodhull

Table 9: Graphviz - Graph Visualization Software package details.

2.2.9 hwloc - Portable Hardware Locality

URL	https://www.open-mpi.org/projects/hwloc/
Applicable License(s)	BSD-3-Clause
Copyright Attribution	© contributors to the Portable Hardware Locality (hwloc) library. See license file for a list.

Table 10: hwloc - Portable Hardware Locality package details.

2.2.10 ICU

URL	http://site.icu-project.org/
Applicable License(s)	ICU License
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Table 11: ICU package details.

2.2.11 Liberation Fonts

URL	https://github.com/liberationfonts/liberation-fonts
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Table 12: Liberation Fonts package details.

2.2.12 libpng

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Table 13: libpng package details.

2.2.13 LLVM

URL	https://www.llvm.org
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Copyright Attribution	© 2003-2010 University of Illinois at Urbana-Champaign

Table 14: LLVM package details.

2.2.14 lz4

URL	https://lz4.org
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Table 15: lz4 package details.

2.2.15 Open CASCADE Technology

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Table 16: Open CASCADE Technology package details.

2.2.16 OpenEXR

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Table 17: OpenEXR package details.

2.2.17 OpenMPI

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Table 18: OpenMPI package details.

2.2.18 OpenSceneGraph

URL	https://github.com/heandreas/osg
Applicable License(s)	OSGPL
Copyright Attribution	© contributors to OpenSceneGraph. See license file for a list.

Table 19: OpenSceneGraph package details.

2.2.19 PCRE

URL	https://www.pcre.org/
Applicable License(s)	BSD-3-Clause
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Table 20: PCRE package details.

2.2.20 pybind11

URL	https://github.com/pybind/pybind11
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Table 21: pybind11 package details.

2.2.21 Python

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Applicable License(s)	PSF
Copyright Attribution	© 2001-2022 Python Software Foundation, © 2000 BeOpen.com, © 1995-2000 Corporation for National Research Initiatives, © 1991-1995 Stichting Mathematisch Centrum

Table 22: Python package details.

2.2.22 Qt

URL	https://www.qt.io/
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Table 23: Qt package details.

2.2.23 QtPropertyBrowser

URL	https://github.com/FIFTY2Technology/qtpropertybrowser
Applicable License(s)	LGPL 3
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Table 24: QtPropertyBrowser package details.

2.2.24 svd3

URL	https://github.com/ericjang/svd3
Applicable License(s)	MIT license
Copyright Attribution	© 2014 Eric V. Jang

Table 25: svd3 package details.

2.2.25 Units: A compile-time c++14 unit conversion library with no dependencies

URL	https://github.com/nholthaus/units
Applicable License(s)	MIT license
Copyright Attribution	© 2016 Nic Holthaus

Table 26: Units: A compile-time c++14 unit conversion library with no dependencies package details.

2.2.26 zlib

URL	https://www.zlib.net/
Applicable License(s)	zlib license
Copyright Attribution	Authors: Jean-loup Gailly and Mark Adler

Table 27: zlib package details.

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Open Asset Import Library (assimp)

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2.3.3 boost C++ libraries (used parts: Filesystem, Lexical Cast, Locale)

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2.3.4 Bullet Continuous Collision Detection and Physics Library

The files in this repository are licensed under the zlib license, except for the files under 'Extras' and examples/ThirdPartyLibs.

Bullet Continuous Collision Detection and Physics Library
<http://bulletphysics.org>

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2.3.5 Eigen

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<html>
<head>
```

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<body BGCOLOR="#ffffff">
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```

```
<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice
```

That's all there is to it!

OpenSceneGraph Library 3.3.4

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2.3.19 PCRE

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THE BASIC LIBRARY FUNCTIONS -----

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PCRE JUST-IN-TIME COMPILATION SUPPORT -----

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2.3.20 pybind11

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2.3.21 Python

```
----- Python 3 -----
History and License
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Python was created in the early 1990s by Guido van Rossum at Stichting
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  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
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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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<http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html>

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Sockets

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.
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Original location:

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

Solution inspired by code from:

Samuel Neves ([super-cop/crypto_auth/siphash24/little](https://github.com/sneves/super-cop))

djb ([super-cop/crypto_auth/siphash24/little2](https://github.com/djb/super-cop))

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

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```

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

cfuhash

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

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----- Python 2.7 -----

A. 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.

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
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.7	2.6	2010	PSF	yes

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2.3.23 QtPropertyBrowser

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```
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2.3.24 svd3

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2.3.25 Units: A compile-time c++14 unit conversion library with no dependencies

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2.3.26 zlib

```
/* zlib.h -- interface of the 'zlib' general purpose compression library
   version 1.2.8, April 28th, 2013

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*/
```