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(Version: March 2017)

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|-----------------------------------|------------------------|---|
| ANTLR3 (3.5.0.2.)                 | 2010                   | Terence Parr                                    |
| Chromium Embedded Framework (CEF) | 2008-2014<br>2006-2009 | Marshall A. Greenblatt<br>Portions: Google Inc. |
| CSMatIO                           | 2007                   | David A. Zier                                   |
| NumPy                             | 2005                   | NumPy Developers                                |
| StringTemplate (4.0.7.0.)         | 2012                   | Terence Parr                                    |

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| asn1c     | 2003-2016              | Lev Walkin <vlm@lionet.info>    |
| Leaflet   | 2010-2016<br>2010-2011 | Vladimir Agafonkin<br>CloudMade |
| sxmlc     | 2014                   | matthieu-labas                  |

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| AvalonEdit (5.0.1.) |           | AvalonEdit is a WPF-based text editor component. It was written by Daniel Grunwald for the SharpDevelop IDE. Starting with version 5.0, AvalonEdit is released under the MIT license. |
| Bootstrap           | 2011-2016 | Twitter, Inc.   |
| libxml2             | 2005      | libxml2   |

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OpenCRG is used by dSPACE with the following modifications:

The C API provided by the manufacturer has been extended with the following methods in the `crgMgr.c` class:

- `Double` `crgDataGetZValue(double* z, int u, int v, int dataSetId)`
- `Double` `crgDataGetUValue(double* u, int i, int dataSetId)`
- `Double` `crgDataGetVValue(double* v, int i, int dataSetId)`
- `Int` `crgDataGetUSize(int* u, int dataSetId)`
- `Int` `crgDataGetVSize(int* v, int dataSetId)`

OpenCRG wird von dSPACE mit folgenden Modifikationen eingesetzt:

Die vom Hersteller zur Verfügung gestellte C-API wurde in der Klasse „`crgMgr.c`“ um folgende Methoden ergänzt:

- `Double` `crgDataGetZValue(double* z, int u, int v, int dataSetId)`
- `Double` `crgDataGetUValue(double* u, int i, int dataSetId)`
- `Double` `crgDataGetVValue(double* v, int i, int dataSetId)`
- `Int` `crgDataGetUSize(int* u, int dataSetId)`
- `Int` `crgDataGetVSize(int* v, int dataSetId)`

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Also add information on how to contact you by electronic and paper mail.

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```
<program> Copyright (C) <year> <name of author>
```

```
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
```

```
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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice
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Last updated 2 July 2012

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

THE BASIC LIBRARY FUNCTIONS

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Written by: Philip Hazel  
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#### A. HISTORY OF THE SOFTWARE

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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 (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     |
| 2.4.4 | 2.4.3     | 2006      | PSF  | yes     |
| 2.5   | 2.4       | 2006      | PSF  | yes     |
| 2.5.1 | 2.5       | 2007      | PSF  | yes     |
| 2.5.2 | 2.5.1     | 2008      | PSF  | yes     |
| 2.5.3 | 2.5.2     | 2008      | PSF  | yes     |
| 2.6   | 2.5       | 2008      | PSF  | yes     |
| 2.6.1 | 2.6       | 2008      | PSF  | yes     |
| 2.6.2 | 2.6.1     | 2009      | PSF  | yes     |
| 2.6.3 | 2.6.2     | 2009      | PSF  | yes     |
| 2.6.4 | 2.6.3     | 2009      | PSF  | yes     |
| 2.6.5 | 2.6.4     | 2010      | PSF  | yes     |
| 2.7   | 2.6       | 2010      | PSF  | yes     |

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- E N D -

Python for Windows extensions is used by dSPACE with the following modifications:

- 64-bit signed and unsigned integer data types can now be used in an automation call.
- Integer data types are now converted to valid ranges. Formerly, they were simply mapped to the double data type.
- Enhanced way to obtain error information after a failed automation call.
- The signed char data type is now handled in an array instead of converting it to an unsigned char data type.
- A PyOleNothing data type has been added to support interfaces which make use of the Visual Basic Nothing object.
- Adjustments have been made so that:
  - if an Item method is marked as the default property, the implementation for the index operator is generated.
  - if strings or interfaces are handled in arrays the memory is correctly freed.
  - there is no deadlock situation in multi-threaded scenarios using pythoncom.
  - the default path for generated COM wrappers is relocated if placed in a read-only location.

- there is no multi-threading deadlock by the win32 API method FormatMessage that uses a lock internally.
- Optimizing the conversion of strings to CLSIDs which are created if a ProgId is given to the function.
- Optimizing release of a COM object implemented in Python after the Python interpreter was shut down.
- Optimizing the behaviour in cases where the Python windows hook for windows messages is still installed after the interpreter was shut down.
- The generation of wrappers for standard COM interfaces is disabled if they were referenced in a type library.
- Deletion of a reference to an enumerator that was reset in a COM server.

Python for Windows extensions wird von dSPACE mit folgenden Modifikationen eingesetzt:

- Die 64-Bit vorzeichenbehaftete und vorzeichenlose Ganzzahldatentypen können nun für Aufrufe in der Automatisierung verwendet werden.
- Ganzzahldatentypen werden nun in Werte passend zu dem entsprechenden Wertebereich konvertiert. Bislang wurden sie teilweise auf den Fließkommazahlen mit doppelter Genauigkeit umgewandelt.
- Verbesserter Zugriff auf Fehlerinformationen nach einem fehlgeschlagenen Aufruf in der Automatisierung.
- Bei der Umwandlung von Feldern wird der vorzeichenbehaftete Datentyp Byte nicht mehr in den vorzeichenlose Datentyp Byte konvertiert.
- Der Datentyp PyOleNothing wurde hinzugefügt, um die Unterstützung von Schnittstellen zu ermöglichen, die das Visual Basic-Objekt Nothing erwarten.
- Es wurden Anpassungen vorgenommen, damit
  - für den Fall, dass eine Item-Methode als Standard-Eigenschaft festgelegt ist, die Implementierung für den Index-Operator generiert werden kann.
  - beim Transport von Zeichenketten oder Schnittstellen in Felder der Speicher korrekt freigegeben wird.
  - in Anwendungen mit mehreren parallelen Ausführungssträngen, die PythonCOM verwenden, keine gegenseitigen Sperre erfolgt.
  - der Standardpfad für generierte COM-Wrapper geändert wird, falls er für einen schreibgeschützten Speicherort eingerichtet ist.
  - eine gegenseitige Sperre in Anwendungen mit mehreren parallelen Ausführungssträngen durch die verwendete Zugriffssperre in der Funktion FormatMessage der Win32 Programmierschnittstelle vermieden wird.
- Optimierung der Konvertierung von Zeichenketten in Kennnummern für COM Klassen bei der Übergabe von Programmkennummern.
- Optimierung der Freigabe eines in Python implementierten COM-Objekts nach dem Beenden des Python-Interpreters
- Optimierung des Verhaltens wenn das Python-Windows-Hook für Windows-Meldungen nach dem Beenden des Interpreters noch aktiv ist.
- Falls in einer Typlibibliothek Standard-COM-Schnittstellen referenziert wurden ist nun die Generierung dieser in einen COM-Wrapper unterbunden.
- Entfernen einer Referenz auf ein Aufzählungsobjekt welches in dem COM Servers zurückgesetzt wurde.

XXV. License Agreement – Python Imaging Library (PIL)

The Python Imaging Library (PIL) is

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- E N D -

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The Python Imaging Library (PIL) has been enhanced by a better dependency management to correct the wrongly referenced CRuntime.

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XXVI. License Agreement – winpthread

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- E N D -

XXVII. Information – wxPython

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Access to copy the complete corresponding machine-readable source code for the Library is granted via: <http://sourceforge.net/projects/wxpython/files/wxPython/2.9.4.0/>

- E N D -

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- E N D -

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**Bottom line** In plain English this means you can use this library in commercial closed-source applications.

- E N D -

XXXII. License Agreement – ZedGraph

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Version 2, June 1991

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