# Licensing Information User Manual MySQL Shell, part of MySQL 8.4.7 Commercial

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```
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Kerberos5

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and the initial implementation of incremental propagation, including the following new or changed files:

lib/gssapi/mechglue/oid\_ops.c lib/gssapi/spnego/gssapiP\_spnego.h lib/gssapi/spnego/spnego\_mech.c

include/iprop\_hdr.h
kadmin/server/ipropd\_svc.c
lib/kdb/iprop.x
lib/kdb/kdb\_convert.c
lib/kdb/kdb\_log.c
lib/kdb/kdb\_log.t
lib/krb5/error\_tables/kdb5\_err.et
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pycparser -- A C parser in Python

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# Python 3

History of the software

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see https://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 https://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 https://www.zope.org/). 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 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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#### Mersenne Twister

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The :mod:`\_random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code::

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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Any feedback is very welcome. http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

### Sockets

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

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Asynchronous socket services

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Execution tracing

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Author: Zooko O'Whielacronx

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UUencode and UUdecode functions

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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

# XML Remote Procedure Calls

The :mod:`xmlrpc.client` module contains the following notice::

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Select kqueue

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#### SipHash24

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The file: `Python/pyhash.c` contains Marek Majkowski' implementation of Dan Bernstein's SipHash24 algorithm. It contains the following note::

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Original location:

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

Solution inspired by code from:

Samuel Neves (supercop/crypto\_auth/siphash24/little)

djb (supercop/crypto\_auth/siphash24/little2)

Jean-Philippe Aumasson (https://l31002.net/siphash/siphash24.c)

strtod and dtoa

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The file: `Python/dtoa.c`, which supplies C functions dtoa and strtod for conversion of C doubles to and from strings, is derived from the file of the same name by David M. Gay, currently available from http://www.netlib.org/fp/. The original file, as retrieved on March 16, 2009, contains the following copyright and licensing notice::

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# TinyXML2

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```
* VI syntax highlighting tweaks.
    * Fix compiler to not make output executable.
 Dilip Joseph <dilip.antony.joseph@gmail.com>
    * Heuristic detection of sub-messages when printing unknown fields in
      text format.
 Brian Atkinson <nairb774@gmail.com>
    * Added @Override annotation to generated Java code where appropriate.
 Vincent Choinière <Choiniere.Vincent@hydro.qc.ca>
    * Tru64 support.
 Monty Taylor <monty.taylor@gmail.com>
    * Solaris 10 + Sun Studio fixes.
 Alek Storm <alek.storm@gmail.com>
    * Slicing support for repeated scalar fields for the Python API.
 Oleg Smolsky <oleg.smolsky@gmail.com>
    * MS Visual Studio error format option.
    * Detect unordered_map in stl_hash.m4.
 Brian Olson <br/> <bri>brianolson@google.com>
    * gzip/zlib I/O support.
 Michael Poole <mdpoole@troilus.org>
    * Fixed warnings about generated constructors not explicitly initializing
      all fields (only present with certain compiler settings).
    * Added generation of field number constants.
 Wink Saville <wink@google.com>
    * Fixed initialization ordering problem in logging code.
 Will Pierce <willp@nuclei.com>
    * Small patch improving performance of in Python serialization.
 Alexandre Vassalotti <alexandre@peadrop.com>
    * Emacs mode for Protocol Buffers (editors/protobuf-mode.el).
 Scott Stafford <scott.stafford@gmail.com>
    * Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.
 Alexander Melnikov <alm@sibmail.ru>
    * HPUX support.
 Oliver Jowett <oliver.jowett@gmail.com>
    * Detect whether zlib is new enough in configure script.
    * Fixes for Solaris 10 32/64-bit confusion.
 Evan Jones <evanj@mit.edu>
    * Optimize Java serialization code when writing a small message to a stream.
    * Optimize Java serialization of strings so that UTF-8 encoding happens
     only once per string per serialization call.
    * Clean up some Java warnings.
    * Fix bug with permanent callbacks that delete themselves when run.
 Michael Kucharski <m.kucharski@gmail.com>
    * Added CodedInputStream.getTotalBytesRead().
 Kacper Kowalik <xarthisius.kk@gmail.com>
    * Fixed m4/acx_pthread.m4 problem for some Linux distributions.
 William Orr <will@worrbase.com>
    * Fixed detection of sched_yield on Solaris.
    * Added atomicops for Solaris
 Andrew Paprocki <andrew@ishiboo.com>
    * Fixed minor IBM xlC compiler build issues
    * Added atomicops for AIX (POWER)
 Nipunn Koorapati <nipunn1313@gmail.com>
    * Provide a type alias field ValueType on EnumTypeWrapper
    * Match service argument names to abstract interface
pthreadpool
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zlib

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innumerable valuable contributions. See the ChangeLog file for
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#### Java-WebSocket

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