

Oracle® Cloud

Licensing Information User Manual for Autonomous Database Serverless



F40733-05
February 2025



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Preface

This document describes how to manage, monitor, and use Oracle Autonomous Database and provides references to related documentation.

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Related Documents

Depending on the region and when you provisioned your database, and in some cases depending on your provisioning choice, the Oracle Database version for your Autonomous Database is either Oracle Database 19c or Oracle Database 21c.

If you have Oracle Database 19c, then many database concepts and features of this service are further documented here:

[Oracle Database 19c](#)

If you are using Always Free Autonomous Database with Oracle Database 21c, then many concepts and features of this service are further documented here:

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For additional information, see these Oracle resources:

- [Welcome to Oracle Cloud Infrastructure](#)
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- [Get Started Using Autonomous JSON Database](#)
- [GoldenGate Real-Time Data Replication in Cloud](#)
- *Using Oracle GoldenGate Cloud Service*
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<https://github.com/apache/incubator-pekko/issues/232#issuecomment-1465281263>.

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https://github.com/basho/riak_dt/blob/develop/src/riak_dt_orswot.erl.

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- distributed-data/src/main/scala/org/apache/pekko/cluster/ddata/ORSet.scala
- persistence-typed/src/main/scala/org/apache/pekko/persistence/typed/crdt/ORSet.scala

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./remote/src/main/java/org/apache/pekko/remote/artery/aeron/AeronErrorLog.java

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Java UUID generator library has been written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

* Eric Bie contributed extensive unit test suite which has helped ensure high implementation

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GSON 2.10

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grpc-protobuf 1.66.0

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io.grpc:grpc-protobuf (io.grpc:grpc-protobuf)

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"io.grpc:grpc-protobuf-lite" (io.grpc:grpc-protobuf-lite)

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json-schema-validator 1.0.75

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Fourth Party Dependencies

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maven-resolver-connector-basic 1.9.22

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maven-resolver-provider 3.9.9

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=====

4th party dependencies

```
[INFO] | +- org.apache.maven:maven-resolver-provider
[INFO] | | +- org.apache.maven:maven-model
[INFO] | | +- org.apache.maven:maven-model-builder
[INFO] | | | +- org.codehaus.plexus:plexus-interpolation
[INFO] | | | +- org.apache.maven:maven-artifact:jar
[INFO] | | | +- org.apache.maven:maven-builder-support
[INFO] | | | \- org.eclipse.sisu:org.eclipse.sisu.inject
[INFO] | | +- org.apache.maven:maven-repository-metadata
[INFO] | | +- org.apache.maven.resolver:maven-resolver-api:jar
[INFO] | | +- org.apache.maven.resolver:maven-resolver-spi:jar
[INFO] | | +- org.apache.maven.resolver:maven-resolver-util:jar
[INFO] | | +- org.apache.maven.resolver:maven-resolver-impl:jar
[INFO] | | | \- org.apache.maven.resolver:maven-resolver-named-locks:jar
[INFO] | | +- org.codehaus.plexus:plexus-utils
[INFO] | | \- javax.inject:javax.inject
```

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org.apache.maven.resolver : maven-resolver-api

org.apache.maven.resolver :maven-resolver-spi

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org.slf4j : slf4j-api

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maven-resolver-transport-http 1.9.22

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[INFO] +- org.apache.maven.resolver:maven-resolver-spi:compile
[INFO] +- org.apache.maven.resolver:maven-resolver-util:compile
[INFO] +- org.apache.httpcomponents:httpclient:compile
[INFO] +- org.apache.httpcomponents:httpcore:compile
[INFO] +- commons-codec:commons-codec:runtime
[INFO] +- org.slf4j:jcl-over-slf4j:runtime
[INFO] +- javax.inject:javax.inject:provided

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// -----
// Transitive dependencies of this project determined from the
// maven pom organized by organization.
// -----
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- JCL 1.2 implemented over SLF4J (<http://www.slf4j.org>) org.slf4j:jcl-over-slf4j:jar:1.7.32

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From: 'Simple Logging Facade for Java' (<https://www.slf4j.org/>)

- SLF4J API Module (<http://www.slf4j.org/slf4j-api>) org.slf4j:slf4j-api:jar:1.7.32:compile

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1) The following files: Immutable.java, NotThreadSafe.java, ThreadSafe.java

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3) The following files: Beta.java, UnsignedLongs.java, UnsignedLongsTest.java

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5) The following files: InstantCodec.java, Jsr310CodecProvider.java, LocalDateCodec.java, LocalDateTimeCodec.java, LocalTimeCodec.java

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7) The following files (originally from <https://github.com/marianobarrios/tls-channel>):

AsynchronousTlsChannel.java

AsynchronousTlsChannelGroup.java

BufferAllocator.java
BufferHolder.java
ByteBufferSet.java
ByteBufferUtil.java
ClientTlsChannel.java
DirectBufferAllocator.java
DirectBufferDeallocator.java
ExtendedAsynchronousByteChannel.java
HeapBufferAllocator.java
NeedsReadException.java
NeedsTaskException.java
NeedsWriteException.java
ServerTlsChannel.java
SniSslContextFactory.java
TlsChannel.java
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1) The following files: Immutable.java, NotThreadSafe.java, ThreadSafe.java

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2) The following files: Assertions.java, AbstractCopyOnWriteMap.java, CopyOnWriteMap.java

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3) The following files: Beta.java, UnsignedLongs.java, UnsignedLongsTest.java

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5) The following files: InstantCodec.java, Jsr310CodecProvider.java, LocalDateCodec.java, LocalDateTimeCodec.java, LocalTimeCodec.java

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7) The following files (originally from <https://github.com/marianobarrios/tls-channel>):

AsynchronousTlsChannel.java

AsynchronousTlsChannelGroup.java

BufferAllocator.java

BufferHolder.java

ByteBufferSet.java

ByteBufferUtil.java

ClientTlsChannel.java

DirectBufferAllocator.java

DirectBufferDeallocator.java

ExtendedAsynchronousByteChannel.java

HeapBufferAllocator.java

NeedsReadException.java

NeedsTaskException.java

NeedsWriteException.java

ServerTlsChannel.java

SniSslContextFactory.java

TlsChannel.java

TlsChannelBuilder.java

TlsChannelCallbackException.java

TlsChannelFlowControlException.java

TlsChannelImpl.java

TlsExplorer.java

TrackingAllocator.java

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Olingo OData Client for Java 4.10.0

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== pycparser

pycparser -- A C parser in Python

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2. swagger-annotations
3. swagger-jaxrs
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Version 3, 29 June 2007

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Fourth party dependencies

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swagger-core 1.6.11
swagger-ui 4.13.2
swagger-jaxrs 1.6.11
swagger-jersey2-jaxrs 1.6.11
swagger-models 1.6.11
swagger-annotations 1.6.11
jackson-databind 2.14.2
jackson-annotations 2.14.2
jackson-core 2.14.2
commons-lang3 3.12.0
jackson-dataformat-yaml 2.14.2
snakeyaml 2.0
jsr305 3.0.2
error_prone_annotations 2.18.0
failureaccess 1.0.1
listenablefuture 9999.0-empty-to-avoid-conflict-with-guava
j2objc-annotations 2.8
validation-api 1.1.0.Final
guava 32.1.1-jre
reflections 0.10.2
jakarta.validation-api 2.0.2

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Dependency:

jakarta.xml.bind-api 2.3.3
jakarta.activation-api 1.2.2
mimepull 1.9.15

Licenses: EDL 1.0

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Dependency

checker-qual 3.33.0
checker-compat-qual 2.5.5
slf4j-api 1.7.36

Licenses: MIT

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Dependency:

jersey-container-servlet-core 2.39
jersey-media-multipart - 2.39
jersey-server - 2.39
jersey-common - 2.39
jersey-client -2.39

Licenses: Apache 2.0 BSD 2-clause, EPL 2.0, MIT Public W3C

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Dependencies:

javassist 3.29.2-GA

Licenses: Apache 2.0, LGPL 2.1, MPL 1.1

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Dependencies:

hk2-api2.6.1
hk2-utils 2.6.1
jakarta.ws.rs-api 2.1.6

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Dependencies:

javax.inject 2.6.1

osgi-resource-locator 1.0.3

Licenses: CDDL, GPL 2.0

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Dependencies:

aopalliance-repackaged2.6.1

jakarta.inject 2.6.1

jakarta.annotation-api 1.3.5

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swagger-annotations 1.6.11

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// ISO C9x compliant stdint.h for Microsoft Visual Studio

// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124

//

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* <https://www.opensource.apple.com/source/configd/configd-453.19/dnsinfo/dnsinfo.h>

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- * org.eclipse.jetty.orbit:javax.mail.glassfish

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- * java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-el-api

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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This is a Java port of Daniel Lemire's fast_float project.

This project provides parsers for double, float, BigDecimal and BigInteger values.

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protocolbuffers/protobuf

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madler/zlib

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pybind/pybind11

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G3log : Asynchronous logger with Dynamic Sinks

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mpi4py

<https://github.com/mpi4py/mpi4py/>

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LICENSE: MPI for Python

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huggingface/transformers

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cerberus

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MurmurHash3

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<https://github.com/aappleby/smhasher>

SMHasher is a test suite designed to test the distribution, collision, and performance properties of non-cryptographic hash functions.

This is the home for the MurmurHash family of hash functions along with the SMHasher test suite used to verify them.

SMHasher is released under the MIT license.

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gtest-ios-framework

<https://github.com/mestevens/gtest-ios-framework>

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curl/curl

<https://github.com/curl>

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ONNX Runtime 1.16.0

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===== Package: onnx =====

Name: onnx

Source code URL: <https://github.com/onnx/onnx>

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Adapted from a C++ implementation of Chris Doty-Humphrey's SFC PRNG.

<https://gist.github.com/imneme/f1f7821f07cf76504a97f6537c818083>

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The `rk_random` and `rk_seed` functions algorithms and the original design of the Mersenne Twister RNG:

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Original algorithm for the implementation of `rk_interval` function from Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised by Magnus Jonsson.

Constants used in the `rk_double` implementation by Isaku Wada.

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"Jakarta JSON Processing API" (jakarta.json:jakarta.json-api)

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- * Source:

<http://search.maven.org/remotecontent?filepath=javax/javaee-web-api/7.0/javaee-web-api-7.0-sources.jar>

JUnit (4.12)

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Fourth Party Dependencies

Jakarta Activation API (JAF) (jakarta.activation:jakarta.activation-api)

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- * org.apache.tomcat:tomcat-api
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-----[7] -----

Jackson JSON processor

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-----[8] -----

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-----[10] -----

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-----[11] -----

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-----[12] -----

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-----[13] -----

Jackson JSON processor

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The following artifacts are EPL.

* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

* javax.servlet:javax.servlet-api

* javax.annotation:javax.annotation-api

* javax.transaction:javax.transaction-api

* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons

org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-el-api

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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logback-classic 1.4.14

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ch.qos.logback:logback-core:jar

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Numba 0.60.0

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jquery.graphviz.svg (<https://github.com/mountainstorm/jquery.graphviz.svg/>)

The DAG roadmap rendering code in docs/dagmap/ uses Javascript from this package to draw graphs in HTML.

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Numba source code that references URLs starting with:

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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, 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 | 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 | |

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CPython unicode (<https://github.com/python/cpython>)

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<https://github.com/python/cpython/>

and contains in the path "Objects/unicodeobject.c" relates to use/inclusion of CPython source code which has the following license along with the standard CPython license:

Unicode implementation based on original code by Fredrik Lundh, modified by Marc-Andre Lemburg <mal@lemburg.com>.

Major speed upgrades to the method implementations at the Reykjavik NeedForSpeed sprint, by Fredrik Lundh and Andrew Dalke.

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Files: .libs/libopenb.so

Description: bundled in OpenBLAS

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tempita

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dragon4

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Name: Splitmix64

Written in 2015 by Sebastiano Vigna (vigna@acm.org)

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Name: SFC64

Adapted from a C++ implementation of Chris Doty-Humphrey's SFC PRNG.

<https://gist.github.com/imneme/f1f7821f07cf76504a97f6537c818083>

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Name: PCG64

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PCG Random Number Generation for C.

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name: MT19937

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The rk_random and rk_seed functions algorithms and the original design of the Mersenne Twister RNG:

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Original algorithm for the implementation of `rk_interval` function from Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised by Magnus Jonsson.

Constants used in the `rk_double` implementation by Isaku Wada.

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Name: Julia

The ziggurat methods were derived from Julia.

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core/src/common/dlpack

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Name: core/src/common/npv_cpuinfo_parser.h

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Name: core/src/npymath/npymath_complex.c.src

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x86-simd-sort

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core/src/umath/svml

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Name: scip-mathjax

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Name: Random kit

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The rk_random and rk_seed functions algorithms and the original design of the Mersenne Twister RNG:

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Original algorithm for the implementation of `rk_interval` function from Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised by Magnus Jonsson.

Constants used in the `rk_double` implementation by Isaku Wada.

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Files: .libs/libgfortran.so

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Anthropic API 0.28.1

Anthropic

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tempita

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dragon4

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Adapted from a C++ implementation of Chris Doty-Humphrey's SFC PRNG.

<https://gist.github.com/imneme/f1f7821f07cf76504a97f6537c818083>

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Original algorithm for the implementation of rk_interval function from Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised by Magnus Jonsson.

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David H. Munro wrote Yorick and Gist. Berkeley Yacc (byacc) generated the Yorick parser. The routines in Math are from LAPACK and FFTPACK; MathC contains C translations by David H. Munro. The algorithms for Yorick's random number generator and several special functions in Yorick/include were taken from Numerical Recipes by Press, et. al., although the Yorick implementations are unrelated to those in Numerical Recipes. A small amount of code in Gist was adapted from the X11R4 release, copyright M.I.T. -- the complete copyright notice may be found in the (unused) file Gist/host.c.

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port/cpl_float.cpp

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frmts/hdf4/hdf-eos/*

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frmts/pcraster/libcsf

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ogr/ogrsf_frmts/dxf/intronurbs.cpp

This code is derived from the code associated with the book "An Introduction to NURBS" by David F. Rogers. More information on the book and the code is available at:

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alg/thinplatespline.cpp

IEEE754 log() code derived from:

@(#)e_log.c 1.3 95/01/18

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frmts/mrf/* (apply when MRF driver included in build)

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cmake/modules/3.\* (backported CMake find modules)

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CMake - Cross Platform Makefile Generator

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ogr/ogrsf\_frmts/flatgeobuf

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lapack-lite

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tempita

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dragon4

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\* implementation, obtained from <http://www.ryanjuckett.com>,

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* modifications specific to printing floats in numpy.
*
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SFC64

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Adapted from a C++ implementation of Chris Doty-Humphrey's SFC PRNG.

<https://gist.github.com/imneme/f1f7821f07cf76504a97f6537c818083>

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PCG64

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PCG Random Number Generation for C.

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MT19937

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The `rk_random` and `rk_seed` functions algorithms and the original design of the Mersenne Twister RNG:

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Original algorithm for the implementation of `rk_interval` function from Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised by Magnus Jonsson.

Constants used in the `rk_double` implementation by Isaku Wada.

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Julia

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The ziggurat methods were derived from Julia.

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Peter Lomdahl, Brad Holian, Shujia Zhou, Niels Jensen, and Tim Germann at Los Alamos National Laboratory were the first users. Patrick Tullmann at the University of Utah suggested the idea of automatic documentation generation. John Schmidt and Kurtis Bleeker at the University of Utah tested out the early versions. Chris Johnson supported SWIG's development at the University of Utah. John Buckman, Larry Virden, and Tom Schwaller provided valuable input on the first releases and improving the portability of SWIG. David Fletcher and Gary Holt have provided a great deal of input on improving SWIG's Perl5 implementation. Kevin Butler contributed the first Windows NT

port.

Early bug reports and patches:

Adam Hupp, Arthur Smyles, Brad Clements, Brett Williams, Buck Hodges,  
Burkhard Kloss, Chia-Liang Kao, Craig Files, Dennis Marsa, Dieter Baron,  
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Scott Michel, Shaun Lowry, Steve Galser, Tarn Weisner Burton,  
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---

Name: OpenBLAS

Files: extra-dll\libopenb\*.dll

Description: bundled as a dynamically linked library

Availability: <https://github.com/xianyi/OpenBLAS/>

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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        | 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  
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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

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

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------(separator)-----

== NAME OF DEPENDENCY 16

GDAL

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port/cpl\_float.cpp

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frmts/pcraster/libcsf

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ogr/ogrsf\_frmts/dxf/intronurbs.cpp

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alg/thinplatespline.cpp

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IEEE754 log() code derived from:

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frmts/pdf/pdfdataset.cpp (method PDFiumRenderPageBitmap())

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frmts/mrf/\* (apply when MRF driver included in build)

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cmake/modules/3.* (backported CMake find modules)

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ogr/ogrsf_frmts/flatgeobuf

FlatGeobuf

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dragon4

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Name: MT19937

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Files: /numpy/blob/numpy/random/src/distributions/*

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Name: SFC64

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Adapted from a C++ implementation of Chris Doty-Humphrey's SFC PRNG.

<https://gist.github.com/imneme/f1f7821f07cf76504a97f6537c818083>

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Name: PCG64

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PCG Random Number Generation for C.

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The `rk_random` and `rk_seed` functions algorithms and the original design of the Mersenne Twister RNG:

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Original algorithm for the implementation of `rk_interval` function from Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised by Magnus Jonsson.

Constants used in the `rk_double` implementation by Isaku Wada.

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Name: Julia

The ziggurat methods were derived from Julia.

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Name: Random

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Components

Many parts of this module have been derived from original sources, often the algorithm's designer. Component licenses are located with the component code.

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python-dateutil

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(CA). These were automatically extracted from Mozilla's root certificates

file (certdata.txt). This file can be found in the mozilla source tree:

<https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt>

It contains the certificates in PEM format and therefore

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Just configure this file as the SSLCACertificateFile.#

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Protocol Buffers (protobuf-java) 3.25.4

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ASM-analysis 9.4

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slf4j-api 2.0.7

Simple Logging Facade for Java (slf4j-api)

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SciPy 1.12.0

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Name: pybind11

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Name: HiGHS

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Name: Biasedurn

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----- Forwarded message -----

From: Agner Fog <agner@agner.org>

Date: Wed, Jul 22, 2020 at 8:54 PM

Subject: Re: Add BiasedUrn to SciPy?

To: Matt Haberland <mhaberla@calpoly.edu>

Cc: Warren Weckesser <warren.weckesser@gmail.com>

Dear Matt The C++ code for these distributions without binding to the R project are available here:

<https://www.agner.org/random/stocc.zip>

You have my permission to use it in SciPy under the new BSD license.

Best regards,

Agner Fog

On 22/07/2020 17.05, Matt Haberland wrote:

Hi Agner, I'm a maintainer of the Python scientific computing library SciPy, and I'm working on improving the capabilities of our statistics subpackage scipy.stats. We'd like to add both Fisher's and Wallenius' noncentral

hypergeometric distributions, but these look quite challenging to implement.
We found your BiasedUrn package, and we'd love to wrap it, but we can't include GPL-3 licensed code under our BSD-new license. Would you consider re-licensing BiasedUrn under a more permissive license, such as BSD-new or MIT, so we can include it in SciPy?
Thank you for considering it!

Matt

--

Matt Haberland
Assistant Professor
BioResource and Agricultural Engineering
08A-3K, Cal Poly

Name: UNU.RAN

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to use the UNU.RAN code excluding the uniform random number generator in src/uniform/mrg31k3p.c (copyright by Renee Touzin)

under the BSD licence. The following files have been removed from the original library:

unuran-1.8.1/COPYING
unuran-1.8.1/INSTALL
unuran-1.8.1/Makefile.am
unuran-1.8.1/Makefile.in
unuran-1.8.1/NEWS
unuran-1.8.1/UPGRADE
unuran-1.8.1/acinclude.m4
unuran-1.8.1/aclocal.m4
unuran-1.8.1/autoconf/config.guess
unuran-1.8.1/autoconf/config.sub
unuran-1.8.1/autoconf/depcomp
unuran-1.8.1/autoconf/install-sh
unuran-1.8.1/autoconf/ltmain.sh

unuran-1.8.1/autoconf/mdate-sh
unuran-1.8.1/autoconf/missing
unuran-1.8.1/autogen.sh
unuran-1.8.1/configure
unuran-1.8.1/doc/Makefile.am
unuran-1.8.1/doc/Makefile.in
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unuran-1.8.1/tests/test_StdDistr.m
 unuran-1.8.1/tests/test_functionparser.c
 unuran-1.8.1/tests/test_functionparser.m
 unuran-1.8.1/tests/testcounter.c
 unuran-1.8.1/tests/testdistributions/Makefile.am
 unuran-1.8.1/tests/testdistributions/Makefile.in
 unuran-1.8.1/tests/testdistributions/c_sawtooth_contpdf.c
 unuran-1.8.1/tests/testdistributions/c_sawtooth_discpdf.c
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 unuran-1.8.1/tests/testdistributions/vc_special_correlations_constantrho.c
 unuran-1.8.1/tests/testdistributions/vc_w_marginals.c
 unuran-1.8.1/tests/testdistributions/vc_wo_logpdf.c
 unuran-1.8.1/tests/testroutines.c
 unuran-1.8.1/tests/testunuran.h
 unuran-1.8.1/src/distr/deprecated_distr.c
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 unuran-1.8.1/src/methods/deprecated_methods.c
 unuran-1.8.1/src/methods/deprecated_methods.h
 unuran-1.8.1/src/methods/deprecated_tdr gw.h
 unuran-1.8.1/src/methods/deprecated_vmt.c
 unuran-1.8.1/src/methods/deprecated_vmt.h
 unuran-1.8.1/src/methods/deprecated_vmt_struct.h
 unuran-1.8.1/src/parser/stringparser_lists.ch.in

UNU.RAN relies on a modified version of the library Cephes, see ./src/specfunc/
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Adapted from a C++ implementation of Chris Doty-Humphrey's SFC PRNG.

<https://gist.github.com/imneme/f1f7821f07cf76504a97f6537c818083>

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Original algorithm for the implementation of rk_interval function from Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised by Magnus Jonsson.

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 unuran-1.8.1/tests/testunuran.h
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 unuran-1.8.1/src/methods/deprecated_vmt_struct.h
 unuran-1.8.1/src/parser/stringparser_lists.ch.in
 UNU.RAN relies on a modified version of the library Cephes, see ./src/src/specfunct/
 cephes_source.h

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scikit-learn 1.2.1

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===== Package: scipy =====

Name: scipy

Source code URL: <https://github.com/scipy/scipy>

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 numpydoc (Other) [https://github.com/numpy/numpydoc]
 numpy (BSD 3-Clause "New" or "Revised" License) [https://github.com/numpy/numpy]
 dragon4, embedded dependency of numpy (MIT) [numpy/core/src/multiarray/dragon4.c]
 Faddeeva, embedded dependency of scipy (MIT) [scipy/special/Faddeeva.*]
 lapack-lite, embedded dependency of numpy (BSD-3-Clause) [numpy/linalg/lapack_lite/*]
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 HiGHS, embedded dependency of scipy (MIT) [scipy/optimize/_highs/*]
 ampgo, embedded dependency of scipy (MIT) [benchmarks/benchmarks/go_benchmark_functions/*.py]
 uarray, embedded dependency of scipy (3-Clause BSD) [scipy/_lib/uarray/*]
 pypocketfft, embedded dependency of scipy (3-Clause BSD) [scipy/fft/_pocketfft/[pocketfft.h, pypocketfft.cxx]]
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 Cephes, embedded dependency of scipy (3-clause BSD) [scipy/special/cephes/*]
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 Qhull, embedded dependency of scipy (Qhull license (BSD-like)) [scipy/spatial/qhull/*]
 libdivide, embedded dependency of numpy (Zlib) [numpy/core/include/numpy/libdivide/*]
 SuperLU, embedded dependency of scipy (3-clause BSD) [scipy/sparse/linalg/dsolve/SuperLU/*]
 LAPJVsp, embedded dependency of scipy (3-clause BSD) [scipy/sparse/csgraph/_matching.pyx]
 L-BFGS-B, embedded dependency of scipy (BSD license) [scipy/optimize/lbfgsb/*]
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 Numpydoc, embedded dependency of scipy (2-clause BSD) [doc/sphinxext/numpydoc/*]
 ARPACK, embedded dependency of scipy (3-clause BSD) [scipy/sparse/linalg/eigen/arpack/ARPACK/*]

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Name: Faddeeva

Files: scipy/special/Faddeeva.*

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Name: qd

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Name: uarray

Files: `scipy/_lib/uarray/*`

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Name: ampgo

Files: `benchmarks/benchmarks/go_benchmark_functions/*.py`

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Functions for testing global optimizers, forked from the AMPGO project,

<https://code.google.com/archive/p/ampgo>

Name: pybind11

Files: no source files are included, however pybind11 binary artifacts are included with every binary build of SciPy.

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*

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* R. H. Byrd, P. Lu and J. Nocedal. A Limited Memory Algorithm for Bound Constrained Optimization, (1995), SIAM Journal on Scientific and Statistical Computing, 16, 5, pp. 1190-1208.

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* J.L. Morales and J. Nocedal. L-BFGS-B: Remark on Algorithm 778: L-BFGS-B, FORTRAN routines for large scale bound constrained optimization (2011), ACM Transactions on Mathematical Software, 38, 1.

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Adapted from a C++ implementation of Chris Doty-Humphrey's SFC PRNG.

<https://gist.github.com/imneme/f1f7821f07cf76504a97f6537c818083>

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Original algorithm for the implementation of `rk_interval` function from Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised by Magnus Jonsson.

Constants used in the `rk_double` implementation by Isaku Wada.

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pyproj

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pyproj 3.6.1

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AUTHOR

David H. Munro wrote Yorick and Gist. Berkeley Yacc (byacc) generated the Yorick parser. The routines in Math are from LAPACK and FFTPACK; MathC contains C translations by David H. Munro. The algorithms for Yorick's random number generator and several special functions in Yorick/include were taken from Numerical Recipes by Press, et. al., although the Yorick implementations are unrelated to those in Numerical Recipes. A small amount of code in Gist was adapted from the X11R4 release, copyright M.I.T. -- the complete copyright notice may be found in the (unused) file Gist/host.c.

agg24-svn

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ttutil.cpp

/*

* Modified for use within matplotlib

* 5 July 2007

* Michael Droettboom

*/

/* Very simple interface to the ppr TT routines */

/* (c) Frank Siebert 1996 */

+++++

ppdrv.h

/*

* Modified for use within matplotlib

* 5 July 2007

* Michael Droettboom

*/

/*

** ~ppr/src/include/ppdrv.h

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*/

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/*

* Modified for use within matplotlib

* 5 July 2007

* Michael Droettboom

*/

```
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**
** TrueType font support. These functions allow PPR to generate
** PostScript fonts from Microsoft compatible TrueType font files.
**
** Last revised 19 December 1995.
*/

+++++

pprdrv_tt2.cpp
-----

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* Modified for use within matplotlib
* 5 July 2007
* Michael Droettboom
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**
** TrueType font support. These functions allow PPR to generate
** PostScript fonts from Microsoft compatible TrueType font files.
**
** The functions in this file do most of the work to convert a
** TrueType font to a type 3 PostScript font.
**
** Most of the material in this file is derived from a program called
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** "comp.sources.postscript". The author did not provide a copyright
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**
** Last revised 11 July 1995.
*/

+++++

truetype.h
-----

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 * Michael Droettboom
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** ~ppr/src/include/typetype.h
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**
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*/
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_tkmini.h
-----

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Adapted from a C++ implementation of Chris Doty-Humphrey's SFC PRNG.

<https://gist.github.com/imneme/f1f7821f07cf76504a97f6537c818083>

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Original algorithm for the implementation of rk_interval function from Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised by Magnus Jonsson.

Constants used in the rk_double implementation by Isaku Wada.

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NumPy 1.26.0

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tempita

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dragon4

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Adapted from a C++ implementation of Chris Doty-Humphrey's SFC PRNG.

<https://gist.github.com/imneme/f1f7821f07cf76504a97f6537c818083>

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Original algorithm for the implementation of `rk_interval` function from Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised by Magnus Jonsson.

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port/cpl_float.cpp

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frmts/hdf4/hdf-eos/*

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frmts/pcraster/libcsf

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ogr/ogrsf_frmts/dxf/intronurbs.cpp

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alg/thinplatespline.cpp

IEEE754 log() code derived from:

@(#)e_log.c 1.3 95/01/18

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alg/libqhull

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C.B. Barber

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and

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frmts/pdf/pdffdataset.cpp (method PDFiumRenderPageBitmap())

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frmts/mrf/* (apply when MRF driver included in build)

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cmake/modules/3.\* (backported CMake find modules)

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CMake - Cross Platform Makefile Generator

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ogr/ogrsf\_frmts/flatgeobuf

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FlatGeobuf

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Assignee: Esri.

Assignors/Inventors: Maurer, Thomas (Redlands, CA); Gao, Peng (Redlands, CA); Becker, Peter (Redlands, CA).

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\* Source code: <https://github.com/eliben/pycparser>

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cff

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Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities

(CA). These were automatically extracted from Mozilla's root certificates

file (certdata.txt). This file can be found in the mozilla source tree:

<https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt>

It contains the certificates in PEM format and therefore

can be directly used with curl / libcurl / php\_curl, or with

an Apache+mod\_ssl webserver for SSL client authentication.

Just configure this file as the SSLCACertificateFile.#

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@(#) \$RCSfile: certdata.txt,v \$ \$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

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Python was created in the early 1990s by Guido van Rossum at Stichting  
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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  
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| 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) |
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| 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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The ziggurat methods were derived from Julia.

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The rk\_random and rk\_seed functions algorithms and the original design of the Mersenne Twister RNG:

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Original algorithm for the implementation of `rk_interval` function from Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised by Magnus Jonsson.

Constants used in the `rk_double` implementation by Isaku Wada.

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PCG Random Number Generation for C.

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Adapted from a C++ implementation of Chris Doty-Humphrey's SFC PRNG.

<https://gist.github.com/imneme/f1f7821f07cf76504a97f6537c818083>

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scipy

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Name: Faddeeva

Files: scipy/special/Faddeeva.\*

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Name: uarray

Files: scipy/\_lib/uarray/\*

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For details, see scipy/\_lib/uarray/LICENSE

Name: ampgo

Files: benchmarks/benchmarks/go\_benchmark\_functions/\*.py

License: MIT

Functions for testing global optimizers, forked from the AMPGO project,

<https://code.google.com/archive/p/ampgo>

Name: pybind11

Files: no source files are included, however pybind11 binary artifacts are included with every binary build of SciPy.

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== biasedurn

----- Forwarded message -----

From: Agner Fog <agner@agner.org>

Date: Wed, Jul 22, 2020 at 8:54 PM

Subject: Re: Add BiasedUrn to SciPy?

To: Matt Haberland <mhaberland@calpoly.edu>

Cc: Warren Weckesser <warren.weckesser@gmail.com>

Dear Matt The C++ code for these distributions without binding to the R project are available here:

<https://www.agner.org/random/stocc.zip>

You have my permission to use it in SciPy under the new BSD license.

Best regards,

Agner Fog

On 22/07/2020 17.05, Matt Haberland wrote:

Hi Agner, I'm a maintainer of the Python scientific computing library SciPy, and I'm working on improving the capabilities of our statistics subpackage scipy.stats. We'd like to add both Fisher's and Wallenius' noncentral hypergeometric distributions, but these look quite challenging to implement. We found your BiasedUrn package, and we'd love to wrap it, but we can't include GPL-3 licensed code under our BSD-new license. Would you consider re-licensing BiasedUrn under a more permissive license, such as BSD-new or MIT, so we can include it in SciPy?

Thank you for considering it!

Matt

--

Matt Haberland

Assistant Professor

BioResource and Agricultural Engineering

08A-3K, Cal Poly

==uru.ran

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unuran-1.8.1/doc/unuran.pdf  
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unuran-1.8.1/doc/unuran\_win32\_libname.texi  
unuran-1.8.1/doc/version.texi  
unuran-1.8.1/doc/version\_win32.texi  
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unuran-1.8.1/examples/example2.c  
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unuran-1.8.1/scripts/Makefile.in  
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unuran-1.8.1/scripts/make\_urng\_header.pl  
unuran-1.8.1/scripts/merge\_h.pl  
unuran-1.8.1/scripts/read\_PDF.pl  
unuran-1.8.1/scripts/remove\_comments.pl

unuran-1.8.1/scripts/run\_valgrind.sh  
unuran-1.8.1/scripts/win32/Makefile.win32  
unuran-1.8.1/scripts/win32/build.sh  
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unuran-1.8.1/scripts/win32/example2.c  
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 unuran-1.8.1/src/methods/deprecated\_vmt.h  
 unuran-1.8.1/src/methods/deprecated\_vmt\_struct.h  
 unuran-1.8.1/src/parser/stringparser\_lists.ch.in

UNU.RAN relies on a modified version of the library Cephes, see ./src/src/specfunc/  
 cephes\_source.h

Details from /src/src/specfunct/cephes\_source.h

=====

This file was considerably changed for UNU.RAN.

As a consequence it has been renamed from "mconf.h" to  
"cephes\_source.h" to avoid confusion.

We were only interested in the files:

gamma.c

igamma.c

incbet.c

ndtr.c

ndtri.c

to use these files we needed the auxiliary files:

isnan.c

mtherr.c

polevl.c

The aim was to enhance portability for ANSI C without expert  
knowledge of the floating point unit.

The main changes are

numeric constants (in cephes - const.c) are replaced

by macros defined in this file (source\_mconf.h).

We changed these constants using the constants provided by  
ANSI C in the math.h file.

We changed also the definitions of MAXGAM (in incbet.c) and of  
MAXSTIR (in gamma.c).

Everything concerning NANS and INFINITY was moved into isnan.c.

(Also the defines to turn it off or on.)

We have only tested this version with NAN and INFINITY turned  
off, but we have not changed anything concerning that  
question. So turning this support on should (could) work.

March 26th, 2001, Josef Leydold and Wolfgang Hoermann.

/\*-----\*/

/\* mconf.h

\*



---

```

* Common include file for math routines
*
*
*
* SYNOPSIS:
*
*
* #include "mconf.h"
*
*
*
* DESCRIPTION:
*
*
* This file contains definitions for error codes that are
* passed to the common error handling routine mtherr()
* (which see).
*
* The file also includes a conditional assembly definition
* for the type of computer arithmetic (IEEE, DEC, Motorola
* IEEE, or UNKnown).
*
* For Digital Equipment PDP-11 and VAX computers, certain
* IBM systems, and others that use numbers with a 56-bit
* significand, the symbol DEC should be defined. In this
* mode, most floating point constants are given as arrays
* of octal integers to eliminate decimal to binary conversion
* errors that might be introduced by the compiler.
*
* For little-endian computers, such as IBM PC, that follow the
* IEEE Standard for Binary Floating Point Arithmetic (ANSI/IEEE
* Std 754-1985), the symbol IBMPC should be defined. These
* numbers have 53-bit significands. In this mode, constants
* are provided as arrays of hexadecimal 16 bit integers.
*
* Big-endian IEEE format is denoted MIEEE. On some RISC

```

- \* systems such as Sun SPARC, double precision constants
- \* must be stored on 8-byte address boundaries. Since integer
- \* arrays may be aligned differently, the MIEEE configuration
- \* may fail on such machines.
- \*
- \* To accommodate other types of computer arithmetic, all
- \* constants are also provided in a normal decimal radix
- \* which one can hope are correctly converted to a suitable
- \* format by the available C language compiler. To invoke
- \* this mode, define the symbol UNK.
- \*
- \* An important difference among these modes is a predefined
- \* set of machine arithmetic constants for each. The numbers
- \* MACHEP (the machine roundoff error), MAXNUM (largest number
- \* represented), and several other parameters are preset by
- \* the configuration symbol. Check the file const.c to
- \* ensure that these values are correct for your computer.
- \*
- \* Configurations NANS, INFINITIES, MINUSZERO, and DENORMAL
- \* may fail on many systems. Verify that they are supposed
- \* to work on your computer.
- \*/

Cephes Math Library Release 2.3: June, 1995

Copyright 1984, 1987, 1989, 1995 by Stephen L. Moshier

==numpy/logfactorial

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Y. Shkolnisky, and M. Tygert.  
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Name: L-BFGS-B

This is a Python wrapper (using F2PY) written by David M. Cooke  
<cookedm@physics.mcmaster.ca> and released as version 0.9 on April 9, 2004.

The wrapper was slightly modified by Joonas Paalasmaa for the 3.0 version in March 2012.

License of L-BFGS-B (Fortran code)

=====

The version included here (in lbfgsb.f) is 3.0 (released April 25, 2011). It was written by Ciyou Zhu, Richard Byrd, and Jorge Nocedal <nocedal@ece.nwu.edu>. It carries the following condition for use:

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#### References

\* R. H. Byrd, P. Lu and J. Nocedal. A Limited Memory Algorithm for Bound Constrained Optimization, (1995), SIAM Journal on Scientific and Statistical Computing, 16, 5, pp. 1190-1208.

\* C. Zhu, R. H. Byrd and J. Nocedal. L-BFGS-B: Algorithm 778: L-BFGS-B, FORTRAN routines for large scale bound constrained optimization (1997),

ACM Transactions on Mathematical Software, 23, 4, pp. 550 - 560.

\* J.L. Morales and J. Nocedal. L-BFGS-B: Remark on Algorithm 778: L-BFGS-B,  
FORTRAN routines for large scale bound constrained optimization (2011),  
ACM Transactions on Mathematical Software, 38, 1.

\*\*\*\*\*

The Python wrapper

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This code uses F2PY (<http://cens.ioc.ee/projects/f2py2e/>) to generate  
the wrapper around the Fortran code.

The Python code and wrapper are copyrighted 2004 by David M. Cooke  
<cookedm@physics.mcmaster.ca>.

License for the Python wrapper

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Name: uarray

Files: `scipy/_lib/uarray/*`

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Name: LAPACK

Files: .libs/libopenb.so

Description: bundled in OpenBLAS

Availability: <https://github.com/xianyi/OpenBLAS/>

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Name: OpenBLAS

Files: .libs/libopenb.so

Description: bundled as a dynamically linked library

Availability: <https://github.com/xianyi/OpenBLAS/>

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Name: Random kit

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Original algorithm for the implementation of `rk_interval` function from Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised by Magnus Jonsson.



Constants used in the `rk_double` implementation by Isaku Wada.

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## libpysal 4.9.2

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file (certdata.txt). This file can be found in the mozilla source tree:

<https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt>

It contains the certificates in PEM format and therefore

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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 Year Owner GPL-  
from 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     |
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| 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     |
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2.5.1 2.5 2007 PSF yes  
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2.6 2.5 2008 PSF yes  
2.6.1 2.6 2008 PSF yes  
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Original algorithm for the implementation of `rk_interval` function from Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised by Magnus Jonsson.

Constants used in the `rk_double` implementation by Isaku Wada.

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== pcg64 (embedded)

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PCG Random Number Generation for C.

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Adapted from a C++ implementation of Chris Doty-Humphrey's SFC PRNG.

<https://gist.github.com/imneme/f1f7821f07cf76504a97f6537c818083>

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Name: ampgo

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Functions for testing global optimizers, forked from the AMPGO project,

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== biasedurn

----- Forwarded message -----

From: Agner Fog <agner@agner.org>

Date: Wed, Jul 22, 2020 at 8:54 PM

Subject: Re: Add BiasedUrn to SciPy?

To: Matt Haberland <mhaberla@calpoly.edu>

Cc: Warren Weckesser <warren.weckesser@gmail.com>

Dear Matt The C++ code for these distributions without binding to the R project are available here:

<https://www.agner.org/random/stocc.zip>

You have my permission to use it in SciPy under the new BSD license.

Best regards,

Agner Fog

On 22/07/2020 17.05, Matt Haberland wrote:

Hi Agner, I'm a maintainer of the Python scientific computing library SciPy, and I'm working on improving the capabilities of our statistics subpackage scipy.stats. We'd like to add both Fisher's and Wallenius' noncentral hypergeometric distributions, but these look quite challenging to implement. We found your BiasedUrn package, and we'd love to wrap it, but we can't include GPL-3 licensed code under our BSD-new license. Would you consider re-licensing BiasedUrn under a more permissive license, such as BSD-new or MIT, so we can include it in SciPy?

Thank you for considering it!

Matt

--

Matt Haberland

Assistant Professor

BioResource and Agricultural Engineering

08A-3K, Cal Poly

==uru.ran

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unuran-1.8.1/doc/src/ref\_example\_cont\_str.texi  
unuran-1.8.1/doc/src/ref\_example\_dext.texi  
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unuran-1.8.1/scripts/win32/example2.c  
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 unuran-1.8.1/src/methods/deprecated\_vmt.c  
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 unuran-1.8.1/src/methods/deprecated\_vmt\_struct.h  
 unuran-1.8.1/src/parser/stringparser\_lists.ch.in  
  
 UNU.RAN relies on a modified version of the library Cephes, see ./src/specfunc/cephes\_source.h

UNU.RAN relies on a modified version of the library Cephes, see ./src/src/specfunct/cephes\_source.h

Details from ./src/src/specfunct/cephes\_source.h

=====

This file was considerably changed for UNU.RAN.

As a consequence it has been renamed from "mconf.h" to "cephes\_source.h" to avoid confusion.

We were only interested in the files:

gamma.c

igamma.c

incbet.c

ndtr.c

ndtri.c

to use these files we needed the auxiliary files:

isnan.c

mtherr.c

polevl.c

The aim was to enhance portability for ANSI C without expert knowledge of the floating point unit.

The main changes are

numeric constants (in cephes - const.c) are replaced

by macros defined in this file (source\_mconf.h).

We changed these constants using the constants provided by ANSI C in the math.h file.

We changed also the definitions of MAXGAM (in incbet.c) and of MAXSTIR (in gamma.c).

Everything concerning NANS and INFINITY was moved into isnan.c.

(Also the defines to turn it off or on.)

We have only tested this version with NAN and INFINITY turned off, but we have not changed anything concerning that question. So turning this support on should (could) work.

March 26th, 2001, Josef Leydold and Wolfgang Hoermann.

/\*-----\*/



```

/* mconf.h
*
* Common include file for math routines
*
*
*
* SYNOPSIS:
*
* #include "mconf.h"
*
*
* DESCRIPTION:
*
* This file contains definitions for error codes that are
* passed to the common error handling routine mtherr()
* (which see).
*
* The file also includes a conditional assembly definition
* for the type of computer arithmetic (IEEE, DEC, Motorola
* IEEE, or UNKnown).
*
* For Digital Equipment PDP-11 and VAX computers, certain
* IBM systems, and others that use numbers with a 56-bit
* significand, the symbol DEC should be defined. In this
* mode, most floating point constants are given as arrays
* of octal integers to eliminate decimal to binary conversion
* errors that might be introduced by the compiler.
*
* For little-endian computers, such as IBM PC, that follow the
* IEEE Standard for Binary Floating Point Arithmetic (ANSI/IEEE
* Std 754-1985), the symbol IBMPC should be defined. These
* numbers have 53-bit significands. In this mode, constants
* are provided as arrays of hexadecimal 16 bit integers.

```

\*  
\* Big-endian IEEE format is denoted MIEEE. On some RISC  
\* systems such as Sun SPARC, double precision constants  
\* must be stored on 8-byte address boundaries. Since integer  
\* arrays may be aligned differently, the MIEEE configuration  
\* may fail on such machines.  
\*  
\* To accommodate other types of computer arithmetic, all  
\* constants are also provided in a normal decimal radix  
\* which one can hope are correctly converted to a suitable  
\* format by the available C language compiler. To invoke  
\* this mode, define the symbol UNK.  
\*  
\* An important difference among these modes is a predefined  
\* set of machine arithmetic constants for each. The numbers  
\* MACHEP (the machine roundoff error), MAXNUM (largest number  
\* represented), and several other parameters are preset by  
\* the configuration symbol. Check the file const.c to  
\* ensure that these values are correct for your computer.  
\*  
\* Configurations NANS, INFINITIES, MINUSZERO, and DENORMAL  
\* may fail on many systems. Verify that they are supposed  
\* to work on your computer.  
\*/

Cephes Math Library Release 2.3: June, 1995

Copyright 1984, 1987, 1989, 1995 by Stephen L. Moshier

==numpy/logfactorial

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Name: Decorator

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Y. Shkolnisky, and M. Tygert.  
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Name: L-BFGS-B

This is a Python wrapper (using F2PY) written by David M. Cooke  
<cookedm@physics.mcmaster.ca> and released as version 0.9 on April 9, 2004.  
The wrapper was slightly modified by Joonas Paalasmaa for the 3.0 version  
in March 2012.

License of L-BFGS-B (Fortran code)

=====

The version included here (in lbfgsb.f) is 3.0 (released April 25, 2011). It was written by Ciyou Zhu, Richard Byrd, and Jorge Nocedal <nocedal@ece.nwu.edu>. It carries the following condition for use:

\*\*\*\*\*

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#### References

\* R. H. Byrd, P. Lu and J. Nocedal. A Limited Memory Algorithm for Bound Constrained Optimization, (1995), SIAM Journal on Scientific and

Statistical Computing, 16, 5, pp. 1190-1208.

\* C. Zhu, R. H. Byrd and J. Nocedal. L-BFGS-B: Algorithm 778: L-BFGS-B, FORTRAN routines for large scale bound constrained optimization (1997), ACM Transactions on Mathematical Software, 23, 4, pp. 550 - 560.

\* J.L. Morales and J. Nocedal. L-BFGS-B: Remark on Algorithm 778: L-BFGS-B, FORTRAN routines for large scale bound constrained optimization (2011), ACM Transactions on Mathematical Software, 38, 1.

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The Python wrapper

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This code uses F2PY (<http://cens.ioc.ee/projects/f2py2e/>) to generate the wrapper around the Fortran code.

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Files: scipy/\_lib/uarray/\*

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Name: LAPACK

Files: .libs/libopenb.so

Description: bundled in OpenBLAS

Availability: <https://github.com/xianyi/OpenBLAS/>

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Name: OpenBLAS

Files: .libs/libopenb.so

Description: bundled as a dynamically linked library

Availability: <https://github.com/xianyi/OpenBLAS/>

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The rk\_random and rk\_seed functions algorithms and the original design of the Mersenne Twister RNG:

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Original algorithm for the implementation of `rk_interval` function from Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised by Magnus Jonsson.

Constants used in the `rk_double` implementation by Isaku Wada.

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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         | 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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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

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

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The ziggurat methods were derived from Julia.

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== mt19937 (embedded)

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The rk\_random and rk\_seed functions algorithms and the original design of the Mersenne Twister RNG:

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Original algorithm for the implementation of `rk_interval` function from Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised by Magnus Jonsson.

Constants used in the `rk_double` implementation by Isaku Wada.

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== pcg64 (embedded)

## The MIT License

PCG Random Number Generation for C.

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Adapted from a C++ implementation of Chris Doty-Humphrey's SFC PRNG.

<https://gist.github.com/imneme/f1f7821f07cf76504a97f6537c818083>

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== splitmix64 (embedded)

Written in 2015 by Sebastiano Vigna (vigna@acm.org)

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== biasedurn

----- Forwarded message -----

From: Agner Fog <agner@agner.org>

Date: Wed, Jul 22, 2020 at 8:54 PM

Subject: Re: Add BiasedUrn to SciPy?

To: Matt Haberland <mhaberland@calpoly.edu>

Cc: Warren Weckesser <warren.weckesser@gmail.com>

Dear Matt The C++ code for these distributions without binding to the R project  
are available here:

<https://www.agner.org/random/stocc.zip>

You have my permission to use it in SciPy under the new BSD license.

Best regards,

Agner Fog

On 22/07/2020 17.05, Matt Haberland wrote:

Hi Agner, I'm a maintainer of the Python scientific computing library SciPy,  
and I'm working on improving the capabilities of our statistics subpackage  
scipy.stats. We'd like to add both Fisher's and Wallenius' noncentral  
hypergeometric distributions, but these look quite challenging to implement.  
We found your BiasedUrn package, and we'd love to wrap it, but we can't  
include GPL-3 licensed code under our BSD-new license. Would you consider  
re-licensing BiasedUrn under a more permissive license, such as BSD-new or  
MIT, so we can include it in SciPy?

Thank you for considering it!

Matt

--

Matt Haberland

Assistant Professor

BioResource and Agricultural Engineering

08A-3K, Cal Poly

==uru.ran

Permission was granted on 23 March 2021 by Josef Leydold (josef.leydold@wu.ac.at) and  
Wolfgang Hoermann (hormannw@bound.edu.tr)

to use the UNU.RAN code excluding the uniform random number generator in src/uniform/  
mrg31k3p.c (copyright by Renee Touzin)

under the BSD licence. The following files have been removed from the original library:

unuran-1.8.1/COPYING

unuran-1.8.1/INSTALL

unuran-1.8.1/Makefile.am

unuran-1.8.1/Makefile.in

unuran-1.8.1/NEWS  
unuran-1.8.1/UPGRADE  
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unuran-1.8.1/src/distr/deprecated\_distr.h  
unuran-1.8.1/src/methods/deprecated\_methods.c  
unuran-1.8.1/src/methods/deprecated\_methods.h  
unuran-1.8.1/src/methods/deprecated\_tdrwg.h  
unuran-1.8.1/src/methods/deprecated\_vmt.c



unuran-1.8.1/src/methods/deprecated\_vmt.h

unuran-1.8.1/src/methods/deprecated\_vmt\_struct.h

unuran-1.8.1/src/parser/stringparser\_lists.ch.in

UNU.RAN relies on a modified version of the library Cephес, see ./src/src/specfunct/cephes\_source.h

Details from /src/src/specfunct/cephes\_source.h

=====

This file was considerably changed for UNU.RAN.

As a consequence it has been renamed from "mconf.h" to "cephes\_source.h" to avoid confusion.

We were only interested in the files:

gamma.c

igamma.c

incbet.c

ndtr.c

ndtri.c

to use these files we needed the auxiliary files:

isnan.c

mtherr.c

polevl.c

The aim was to enhance portability for ANSI C without expert knowledge of the floating point unit.

The main changes are

numeric constants (in cephес - const.c) are replaced

by macros defined in this file (source\_mconf.h).

We changed these constants using the constants provided by ANSI C in the math.h file.

We changed also the definitions of MAXGAM (in incbet.c) and of MAXSTIR (in gamma.c).

Everything concerning NANS and INFINITY was moved into isnan.c.

(Also the defines to turn it off or on.)

We have only tested this version with NAN and INFINITY turned off, but we have not changed anything concerning that

question. So turning this support on should (could) work.

March 26th, 2001, Josef Leydold and Wolfgang Hoermann.

```
/*-----*/
```

```
/* mconf.h
```

```
*
```

```
* Common include file for math routines
```

```
*
```

```
*
```

```
*
```

```
* SYNOPSIS:
```

```
*
```

```
* #include "mconf.h"
```

```
*
```

```
*
```

```
*
```

```
* DESCRIPTION:
```

```
*
```

```
* This file contains definitions for error codes that are
```

```
* passed to the common error handling routine mtherr()
```

```
* (which see).
```

```
*
```

```
* The file also includes a conditional assembly definition
```

```
* for the type of computer arithmetic (IEEE, DEC, Motorola
```

```
* IEEE, or UNKnown).
```

```
*
```

```
* For Digital Equipment PDP-11 and VAX computers, certain
```

```
* IBM systems, and others that use numbers with a 56-bit
```

```
* significand, the symbol DEC should be defined. In this
```

```
* mode, most floating point constants are given as arrays
```

```
* of octal integers to eliminate decimal to binary conversion
```

```
* errors that might be introduced by the compiler.
```

```
*
```

```
* For little-endian computers, such as IBM PC, that follow the
```

\* IEEE Standard for Binary Floating Point Arithmetic (ANSI/IEEE  
 \* Std 754-1985), the symbol IBMPC should be defined. These  
 \* numbers have 53-bit significands. In this mode, constants  
 \* are provided as arrays of hexadecimal 16 bit integers.  
 \*  
 \* Big-endian IEEE format is denoted MIEEE. On some RISC  
 \* systems such as Sun SPARC, double precision constants  
 \* must be stored on 8-byte address boundaries. Since integer  
 \* arrays may be aligned differently, the MIEEE configuration  
 \* may fail on such machines.  
 \*  
 \* To accommodate other types of computer arithmetic, all  
 \* constants are also provided in a normal decimal radix  
 \* which one can hope are correctly converted to a suitable  
 \* format by the available C language compiler. To invoke  
 \* this mode, define the symbol UNK.  
 \*  
 \* An important difference among these modes is a predefined  
 \* set of machine arithmetic constants for each. The numbers  
 \* MACHEP (the machine roundoff error), MAXNUM (largest number  
 \* represented), and several other parameters are preset by  
 \* the configuration symbol. Check the file const.c to  
 \* ensure that these values are correct for your computer.  
 \*  
 \* Configurations NANS, INFINITIES, MINUSZERO, and DENORMAL  
 \* may fail on many systems. Verify that they are supposed  
 \* to work on your computer.  
 \*/

Cephes Math Library Release 2.3: June, 1995

Copyright 1984, 1987, 1989, 1995 by Stephen L. Moshier

Name: Decorator

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-----  
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Name: L-BFGS-B

This is a Python wrapper (using F2PY) written by David M. Cooke <cookedm@physics.mcmaster.ca> and released as version 0.9 on April 9, 2004. The wrapper was slightly modified by Joonas Paalasmaa for the 3.0 version in March 2012.

License of L-BFGS-B (Fortran code)

=====

The version included here (in lbfgsb.f) is 3.0 (released April 25, 2011). It was written by Ciyou Zhu, Richard Byrd, and Jorge Nocedal <nocedal@ece.nwu.edu>. It

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- \* R. H. Byrd, P. Lu and J. Nocedal. A Limited Memory Algorithm for Bound Constrained Optimization, (1995), SIAM Journal on Scientific and Statistical Computing, 16, 5, pp. 1190-1208.
- \* C. Zhu, R. H. Byrd and J. Nocedal. L-BFGS-B: Algorithm 778: L-BFGS-B, FORTRAN routines for large scale bound constrained optimization (1997), ACM Transactions on Mathematical Software, 23, 4, pp. 550 - 560.
- \* J.L. Morales and J. Nocedal. L-BFGS-B: Remark on Algorithm 778: L-BFGS-B, FORTRAN routines for large scale bound constrained optimization (2011), ACM Transactions on Mathematical Software, 38, 1.

\*\*\*\*

#### The Python wrapper

=====

This code uses F2PY (<http://cens.ioc.ee/projects/f2py2e/>) to generate the wrapper around the Fortran code.

The Python code and wrapper are copyrighted 2004 by David M. Cooke <cookedm@physics.mcmaster.ca>.

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Name: Qhull

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C.B. Barber

Arlington, MA

and

The National Science and Technology Research Center for

Computation and Visualization of Geometric Structures

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Name: pypocketfft

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Name: uarray

Files: scipy/\_lib/uarray/\*

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Name: LAPACK

Files: .libs/libopenb.so

Description: bundled in OpenBLAS

Availability: <https://github.com/xianyi/OpenBLAS/>

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Name: OpenBLAS

Files: .libs/libopenb.so

Description: bundled as a dynamically linked library

Availability: <https://github.com/xianyi/OpenBLAS/>

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Name: Random kit

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The rk\_random and rk\_seed functions algorithms and the original design of  
the Mersenne Twister RNG:

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Original algorithm for the implementation of `rk_interval` function from Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised by Magnus Jonsson.

Constants used in the `rk_double` implementation by Isaku Wada.

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## Sparse Generalized Linear Models (spgglm) 1.1.0

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certifi

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This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

This is a bundle of X.509 certificates of public Certificate Authorities

(CA). These were automatically extracted from Mozilla's root certificates

file (certdata.txt). This file can be found in the mozilla source tree:

<https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt>

It contains the certificates in PEM format and therefore

can be directly used with curl / libcurl / php\_curl, or with

an Apache+mod\_ssl webserver for SSL client authentication.

Just configure this file as the SSLCACertificateFile.#

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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         | 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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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

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The ziggurat methods were derived from Julia.

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Original algorithm for the implementation of `rk_interval` function from Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised by Magnus Jonsson.

Constants used in the `rk_double` implementation by Isaku Wada.

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PCG Random Number Generation for C.

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Adapted from a C++ implementation of Chris Doty-Humphrey's SFC PRNG.

<https://gist.github.com/imneme/f1f7821f07cf76504a97f6537c818083>

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Name: Faddeeva

Files: scipy/special/Faddeeva.\*

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Files: `scipy/_lib/uarray/*`

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Name: `ampgo`

Files: `benchmarks/benchmarks/go_benchmark_functions/*.py`

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Functions for testing global optimizers, forked from the AMPGO project,  
<https://code.google.com/archive/p/ampgo>

Name: `pybind11`

Files: no source files are included, however `pybind11` binary artifacts are included with every binary build of SciPy.

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== biasedurn

----- Forwarded message -----

From: Agner Fog <agner@agner.org>

Date: Wed, Jul 22, 2020 at 8:54 PM

Subject: Re: Add BiasedUrn to SciPy?

To: Matt Haberland <mhaberland@calpoly.edu>

Cc: Warren Weckesser <warren.weckesser@gmail.com>

Dear Matt The C++ code for these distributions without binding to the R project  
are available here:

<https://www.agner.org/random/stocc.zip>

You have my permission to use it in SciPy under the new BSD license.

Best regards,

Agner Fog

On 22/07/2020 17.05, Matt Haberland wrote:

Hi Agner, I'm a maintainer of the Python scientific computing library SciPy,  
and I'm working on improving the capabilities of our statistics subpackage  
scipy.stats. We'd like to add both Fisher's and Wallenius' noncentral  
hypergeometric distributions, but these look quite challenging to implement.  
We found your BiasedUrn package, and we'd love to wrap it, but we can't  
include GPL-3 licensed code under our BSD-new license. Would you consider  
re-licensing BiasedUrn under a more permissive license, such as BSD-new or  
MIT, so we can include it in SciPy?

Thank you for considering it!

Matt

--

Matt Haberland

Assistant Professor

BioResource and Agricultural Engineering

08A-3K, Cal Poly

==uru.ran

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mrg31k3p.c (copyright by Renee Touzin)

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unuran-1.8.1/INSTALL

unuran-1.8.1/Makefile.am

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unuran-1.8.1/NEWS  
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unuran-1.8.1/autoconf/config.guess  
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unuran-1.8.1/autoconf/depcomp  
unuran-1.8.1/autoconf/install-sh  
unuran-1.8.1/autoconf/ltmain.sh  
unuran-1.8.1/autoconf/mdate-sh  
unuran-1.8.1/autoconf/missing  
unuran-1.8.1/autogen.sh  
unuran-1.8.1/configure  
unuran-1.8.1/doc/Makefile.am  
unuran-1.8.1/doc/Makefile.in  
unuran-1.8.1/doc/figures/Makefile.am  
unuran-1.8.1/doc/figures/Makefile.in  
unuran-1.8.1/doc/figures/discrete\_inversion.eps  
unuran-1.8.1/doc/figures/discrete\_inversion.pdf  
unuran-1.8.1/doc/figures/discrete\_inversion.png  
unuran-1.8.1/doc/figures/discrete\_inversion.txt  
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unuran-1.8.1/doc/figures/inversion.png  
unuran-1.8.1/doc/figures/inversion.txt  
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unuran-1.8.1/doc/figures/rejection\_from\_constant\_hat.pdf  
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unuran-1.8.1/doc/src/examples.dh  
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unuran-1.8.1/doc/src/methods\_discr.texi  
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unuran-1.8.1/doc/src/ref\_example0\_str.texi  
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unuran-1.8.1/doc/version.texi  
unuran-1.8.1/doc/version\_win32.texi  
unuran-1.8.1/examples/Makefile.am  
unuran-1.8.1/examples/Makefile.in  
unuran-1.8.1/examples/example0.c

unuran-1.8.1/examples/example0\_str.c  
unuran-1.8.1/examples/example1.c  
unuran-1.8.1/examples/example1\_str.c  
unuran-1.8.1/examples/example2.c  
unuran-1.8.1/examples/example2\_str.c  
unuran-1.8.1/examples/example3.c  
unuran-1.8.1/examples/example3\_str.c  
unuran-1.8.1/examples/example\_FuncStr.c  
unuran-1.8.1/examples/example\_anti.c  
unuran-1.8.1/examples/example\_anti\_str.c  
unuran-1.8.1/examples/example\_cext.c  
unuran-1.8.1/examples/example\_cont.c  
unuran-1.8.1/examples/example\_cont\_str.c  
unuran-1.8.1/examples/example\_cpp.cpp  
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unuran-1.8.1/examples/example\_discr.c  
unuran-1.8.1/examples/example\_discr\_str.c  
unuran-1.8.1/examples/example\_emp.c  
unuran-1.8.1/examples/example\_emp\_str.c  
unuran-1.8.1/examples/example\_errorhandler.c  
unuran-1.8.1/examples/example\_gsl.c  
unuran-1.8.1/examples/example\_mcorr.c  
unuran-1.8.1/examples/example\_mixt.c  
unuran-1.8.1/examples/example\_mixt\_inv.c  
unuran-1.8.1/examples/example\_prng.c  
unuran-1.8.1/examples/example\_prng\_str.c  
unuran-1.8.1/examples/example\_rngstreams.c  
unuran-1.8.1/examples/example\_vemp.c  
unuran-1.8.1/experiments/Makefile.am  
unuran-1.8.1/experiments/Makefile.in  
unuran-1.8.1/experiments/make\_timing\_table.c  
unuran-1.8.1/experiments/timings\_chap\_10.conf  
unuran-1.8.1/experiments/timings\_chap\_8.conf  
unuran-1.8.1/scripts/Makefile.am



unuran-1.8.1/scripts/Makefile.in  
unuran-1.8.1/scripts/compute\_machine\_constants.c  
unuran-1.8.1/scripts/make\_urng\_header.pl  
unuran-1.8.1/scripts/merge\_h.pl  
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unuran-1.8.1/scripts/remove\_comments.pl  
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unuran-1.8.1/scripts/win32/build.sh  
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unuran-1.8.1/scripts/win32/example2.c  
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unuran-1.8.1/src/README  
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unuran-1.8.1/src/distr/Makefile.in  
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unuran-1.8.1/tests/test\_StdDistr.m  
unuran-1.8.1/tests/test\_functionparser.c  
unuran-1.8.1/tests/test\_functionparser.m  
unuran-1.8.1/tests/testcounter.c  
unuran-1.8.1/tests/testdistributions/Makefile.am  
unuran-1.8.1/tests/testdistributions/Makefile.in  
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unuran-1.8.1/tests/testdistributions/c\_sawtooth\_discpdf.c  
unuran-1.8.1/tests/testdistributions/c\_w\_pdf\_from\_logpdf.c  
unuran-1.8.1/tests/testdistributions/c\_with\_multiple\_of\_pdf.c  
unuran-1.8.1/tests/testdistributions/c\_wo\_logpdf.c  
unuran-1.8.1/tests/testdistributions/testdistributions.h  
unuran-1.8.1/tests/testdistributions/vc\_cauchy\_RoU\_ball.c  
unuran-1.8.1/tests/testdistributions/vc\_special\_correlations\_ar1.c  
unuran-1.8.1/tests/testdistributions/vc\_special\_correlations\_constantrho.c  
unuran-1.8.1/tests/testdistributions/vc\_w\_marginals.c  
unuran-1.8.1/tests/testdistributions/vc\_wo\_logpdf.c  
unuran-1.8.1/tests/testroutines.c  
unuran-1.8.1/tests/testunuran.h  
unuran-1.8.1/src/distr/deprecated\_distr.c  
unuran-1.8.1/src/distr/deprecated\_distr.h  
unuran-1.8.1/src/methods/deprecated\_methods.c  
unuran-1.8.1/src/methods/deprecated\_methods.h  
unuran-1.8.1/src/methods/deprecated\_tdrwg.h  
unuran-1.8.1/src/methods/deprecated\_vmt.c

unuran-1.8.1/src/methods/deprecated\_vmt.h

unuran-1.8.1/src/methods/deprecated\_vmt\_struct.h

unuran-1.8.1/src/parser/stringparser\_lists.ch.in

UNU.RAN relies on a modified version of the library Cephес, see ./src/src/specfunct/cephes\_source.h

Details from /src/src/specfunct/cephes\_source.h

=====

This file was considerably changed for UNU.RAN.

As a consequence it has been renamed from "mconf.h" to "cephes\_source.h" to avoid confusion.

We were only interested in the files:

gamma.c

igamma.c

incbet.c

ndtr.c

ndtri.c

to use these files we needed the auxiliary files:

isnan.c

mtherr.c

polevl.c

The aim was to enhance portability for ANSI C without expert knowledge of the floating point unit.

The main changes are

numeric constants (in cephес - const.c) are replaced

by macros defined in this file (source\_mconf.h).

We changed these constants using the constants provided by ANSI C in the math.h file.

We changed also the definitions of MAXGAM (in incbet.c) and of MAXSTIR (in gamma.c).

Everything concerning NANS and INFINITY was moved into isnan.c.

(Also the defines to turn it off or on.)

We have only tested this version with NAN and INFINITY turned off, but we have not changed anything concerning that

question. So turning this support on should (could) work.

March 26th, 2001, Josef Leydold and Wolfgang Hoermann.

```
/*-----*/
```

```
/* mconf.h
```

```
*
```

```
* Common include file for math routines
```

```
*
```

```
*
```

```
*
```

```
* SYNOPSIS:
```

```
*
```

```
* #include "mconf.h"
```

```
*
```

```
*
```

```
*
```

```
* DESCRIPTION:
```

```
*
```

```
* This file contains definitions for error codes that are
```

```
* passed to the common error handling routine mtherr()
```

```
* (which see).
```

```
*
```

```
* The file also includes a conditional assembly definition
```

```
* for the type of computer arithmetic (IEEE, DEC, Motorola
```

```
* IEEE, or UNKnown).
```

```
*
```

```
* For Digital Equipment PDP-11 and VAX computers, certain
```

```
* IBM systems, and others that use numbers with a 56-bit
```

```
* significand, the symbol DEC should be defined. In this
```

```
* mode, most floating point constants are given as arrays
```

```
* of octal integers to eliminate decimal to binary conversion
```

```
* errors that might be introduced by the compiler.
```

```
*
```

```
* For little-endian computers, such as IBM PC, that follow the
```



```

* IEEE Standard for Binary Floating Point Arithmetic (ANSI/IEEE
* Std 754-1985), the symbol IBMPC should be defined. These
* numbers have 53-bit significands. In this mode, constants
* are provided as arrays of hexadecimal 16 bit integers.
*
* Big-endian IEEE format is denoted MIEEE. On some RISC
* systems such as Sun SPARC, double precision constants
* must be stored on 8-byte address boundaries. Since integer
* arrays may be aligned differently, the MIEEE configuration
* may fail on such machines.
*
* To accommodate other types of computer arithmetic, all
* constants are also provided in a normal decimal radix
* which one can hope are correctly converted to a suitable
* format by the available C language compiler. To invoke
* this mode, define the symbol UNK.
*
* An important difference among these modes is a predefined
* set of machine arithmetic constants for each. The numbers
* MACHEP (the machine roundoff error), MAXNUM (largest number
* represented), and several other parameters are preset by
* the configuration symbol. Check the file const.c to
* ensure that these values are correct for your computer.
*
* Configurations NANS, INFINITIES, MINUSZERO, and DENORMAL
* may fail on many systems. Verify that they are supposed
* to work on your computer.
*/

```

Cephes Math Library Release 2.3: June, 1995

Copyright 1984, 1987, 1989, 1995 by Stephen L. Moshier

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Name: Decorator

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Name: ID

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Y. Shkolnisky, and M. Tygert.

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Name: L-BFGS-B

This is a Python wrapper (using F2PY) written by David M. Cooke <cookedm@physics.mcmaster.ca> and released as version 0.9 on April 9, 2004. The wrapper was slightly modified by Joonas Paalasmaa for the 3.0 version in March 2012.

License of L-BFGS-B (Fortran code)

=====

The version included here (in lbfgsb.f) is 3.0 (released April 25, 2011). It was written by Ciyou Zhu, Richard Byrd, and Jorge Nocedal <nocedal@ece.nwu.edu>. It

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#### References

- \* R. H. Byrd, P. Lu and J. Nocedal. A Limited Memory Algorithm for Bound Constrained Optimization, (1995), SIAM Journal on Scientific and Statistical Computing, 16, 5, pp. 1190-1208.
- \* C. Zhu, R. H. Byrd and J. Nocedal. L-BFGS-B: Algorithm 778: L-BFGS-B, FORTRAN routines for large scale bound constrained optimization (1997), ACM Transactions on Mathematical Software, 23, 4, pp. 550 - 560.
- \* J.L. Morales and J. Nocedal. L-BFGS-B: Remark on Algorithm 778: L-BFGS-B, FORTRAN routines for large scale bound constrained optimization (2011), ACM Transactions on Mathematical Software, 38, 1.

\*\*\*\*

#### The Python wrapper

=====

This code uses F2PY (<http://cens.ioc.ee/projects/f2py2e/>) to generate the wrapper around the Fortran code.

The Python code and wrapper are copyrighted 2004 by David M. Cooke <cookedm@physics.mcmaster.ca>.

#### License for the Python wrapper

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Name: ARPACK

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Pertains to ARPACK and P\_ARPACK

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C.B. Barber

Arlington, MA

and

The National Science and Technology Research Center for

Computation and Visualization of Geometric Structures

(The Geometry Center)

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Name: uarray

Files: scipy/\_lib/uarray/\*

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Name: LAPACK

Files: .libs/libopenb.so

Description: bundled in OpenBLAS

Availability: <https://github.com/xianyi/OpenBLAS/>

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Name: OpenBLAS

Files: .libs/libopenb.so

Description: bundled as a dynamically linked library

Availability: <https://github.com/xianyi/OpenBLAS/>

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Name: Random kit

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The rk\_random and rk\_seed functions algorithms and the original design of  
the Mersenne Twister RNG:

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Original algorithm for the implementation of `rk_interval` function from Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised by Magnus Jonsson.

Constants used in the `rk_double` implementation by Isaku Wada.

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## spatial regression (spreg) 1.4.2

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It contains the certificates in PEM format and therefore

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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 Year Owner GPL-  
from 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  
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python-dateutil

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The rk\_random and rk\_seed functions algorithms and the original design of the Mersenne Twister RNG:

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Original algorithm for the implementation of rk\_interval function from Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised by Magnus Jonsson.

Constants used in the rk\_double implementation by Isaku Wada.

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== pcg64 (embedded)

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PCG Random Number Generation for C.

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Adapted from a C++ implementation of Chris Doty-Humphrey's SFC PRNG.

<https://gist.github.com/imneme/f1f7821f07cf76504a97f6537c818083>

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== splitmix64 (embedded)

Written in 2015 by Sebastiano Vigna (vigna@acm.org)

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Files: `benchmarks/benchmarks/go_benchmark_functions/*.py`

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Files: `scipy/_lib/boost_math/*`

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Name: Biasedurn

Files: `scipy/stats/biasedurn/*`

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Name: NumPy

Files: scipy/stats/\_rcont/[logfactorial.h,logfactorial.c]

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==HiGHS

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== biasedurn

----- Forwarded message -----

From: Agner Fog <agner@agner.org>

Date: Wed, Jul 22, 2020 at 8:54 PM

Subject: Re: Add BiasedUrn to SciPy?

To: Matt Haberland <mhaberland@calpoly.edu>

Cc: Warren Weckesser <warren.weckesser@gmail.com>

Dear Matt The C++ code for these distributions without binding to the R project are available here:

<https://www.agner.org/random/stocc.zip>

You have my permission to use it in SciPy under the new BSD license.

Best regards,



Agner Fog

On 22/07/2020 17.05, Matt Haberland wrote:

Hi Agner, I'm a maintainer of the Python scientific computing library SciPy, and I'm working on improving the capabilities of our statistics subpackage scipy.stats. We'd like to add both Fisher's and Wallenius' noncentral hypergeometric distributions, but these look quite challenging to implement. We found your BiasedUrn package, and we'd love to wrap it, but we can't include GPL-3 licensed code under our BSD-new license. Would you consider re-licensing BiasedUrn under a more permissive license, such as BSD-new or MIT, so we can include it in SciPy?

Thank you for considering it!

Matt

--

Matt Haberland

Assistant Professor

BioResource and Agricultural Engineering

08A-3K, Cal Poly

==uru.ran

Permission was granted on 23 March 2021 by Josef Leydold (josef.leydold@wu.ac.at) and Wolfgang Hoermann (hormannw@bound.edu.tr)

to use the UNU.RAN code excluding the uniform random number generator in src/uniform/mrg31k3p.c (copyright by Renee Touzin)

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unuran-1.8.1/Makefile.am

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unuran-1.8.1/acinclude.m4

unuran-1.8.1/aclocal.m4

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 unuran-1.8.1/tests/test\_functionparser.c  
 unuran-1.8.1/tests/test\_functionparser.m  
 unuran-1.8.1/tests/testcounter.c  
 unuran-1.8.1/tests/testdistributions/Makefile.am  
 unuran-1.8.1/tests/testdistributions/Makefile.in  
 unuran-1.8.1/tests/testdistributions/c\_sawtooth\_contpdf.c  
 unuran-1.8.1/tests/testdistributions/c\_sawtooth\_discpdf.c  
 unuran-1.8.1/tests/testdistributions/c\_w\_pdf\_from\_logpdf.c  
 unuran-1.8.1/tests/testdistributions/c\_with\_multiple\_of\_pdf.c  
 unuran-1.8.1/tests/testdistributions/c\_wo\_logpdf.c  
 unuran-1.8.1/tests/testdistributions/testdistributions.h  
 unuran-1.8.1/tests/testdistributions/vc\_cauchy\_RoU\_ball.c  
 unuran-1.8.1/tests/testdistributions/vc\_special\_correlations\_ar1.c  
 unuran-1.8.1/tests/testdistributions/vc\_special\_correlations\_constantrho.c  
 unuran-1.8.1/tests/testdistributions/vc\_w\_marginals.c  
 unuran-1.8.1/tests/testdistributions/vc\_wo\_logpdf.c  
 unuran-1.8.1/tests/testroutines.c  
 unuran-1.8.1/tests/testunuran.h  
 unuran-1.8.1/src/distr/deprecated\_distr.c  
 unuran-1.8.1/src/distr/deprecated\_distr.h  
 unuran-1.8.1/src/methods/deprecated\_methods.c  
 unuran-1.8.1/src/methods/deprecated\_methods.h  
 unuran-1.8.1/src/methods/deprecated\_tdrwg.h  
 unuran-1.8.1/src/methods/deprecated\_vmt.c  
 unuran-1.8.1/src/methods/deprecated\_vmt.h  
 unuran-1.8.1/src/methods/deprecated\_vmt\_struct.h  
 unuran-1.8.1/src/parser/stringparser\_lists.ch.in  
  
 UNU.RAN relies on a modified version of the library Cephes, see ./src/src/specfuncnt/  
 cephes\_source.h

Details from /src/src/specfunct/cephes\_source.h

=====

This file was considerably changed for UNU.RAN.

As a consequence it has been renamed from "mconf.h" to  
"cephes\_source.h" to avoid confusion.

We were only interested in the files:

gamma.c

igamma.c

incbet.c

ndtr.c

ndtri.c

to use these files we needed the auxiliary files:

isnan.c

mtherr.c

polevl.c

The aim was to enhance portability for ANSI C without expert  
knowledge of the floating point unit.

The main changes are

numeric constants (in cephes - const.c) are replaced

by macros defined in this file (source\_mconf.h).

We changed these constants using the constants provided by  
ANSI C in the math.h file.

We changed also the definitions of MAXGAM (in incbet.c) and of  
MAXSTIR (in gamma.c).

Everything concerning NANS and INFINITY was moved into isnan.c.

(Also the defines to turn it off or on.)

We have only tested this version with NAN and INFINITY turned  
off, but we have not changed anything concerning that  
question. So turning this support on should (could) work.

March 26th, 2001, Josef Leydold and Wolfgang Hoermann.

/\*-----\*/

/\* mconf.h

\*

---

```

* Common include file for math routines
*
*
*
* SYNOPSIS:
*
*
* #include "mconf.h"
*
*
*
* DESCRIPTION:
*
* This file contains definitions for error codes that are
* passed to the common error handling routine mtherr()
* (which see).
*
* The file also includes a conditional assembly definition
* for the type of computer arithmetic (IEEE, DEC, Motorola
* IEEE, or UNKnown).
*
* For Digital Equipment PDP-11 and VAX computers, certain
* IBM systems, and others that use numbers with a 56-bit
* significand, the symbol DEC should be defined. In this
* mode, most floating point constants are given as arrays
* of octal integers to eliminate decimal to binary conversion
* errors that might be introduced by the compiler.
*
* For little-endian computers, such as IBM PC, that follow the
* IEEE Standard for Binary Floating Point Arithmetic (ANSI/IEEE
* Std 754-1985), the symbol IBMPC should be defined. These
* numbers have 53-bit significands. In this mode, constants
* are provided as arrays of hexadecimal 16 bit integers.
*
* Big-endian IEEE format is denoted MIEEE. On some RISC

```

```

* systems such as Sun SPARC, double precision constants
* must be stored on 8-byte address boundaries. Since integer
* arrays may be aligned differently, the MIEEE configuration
* may fail on such machines.
*
* To accommodate other types of computer arithmetic, all
* constants are also provided in a normal decimal radix
* which one can hope are correctly converted to a suitable
* format by the available C language compiler. To invoke
* this mode, define the symbol UNK.
*
* An important difference among these modes is a predefined
* set of machine arithmetic constants for each. The numbers
* MACHEP (the machine roundoff error), MAXNUM (largest number
* represented), and several other parameters are preset by
* the configuration symbol. Check the file const.c to
* ensure that these values are correct for your computer.
*
* Configurations NANS, INFINITIES, MINUSZERO, and DENORMAL
* may fail on many systems. Verify that they are supposed
* to work on your computer.
*/

```

Cephes Math Library Release 2.3: June, 1995

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Name: Decorator

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Name: L-BFGS-B

This is a Python wrapper (using F2PY) written by David M. Cooke  
<cookedm@physics.mcmaster.ca> and released as version 0.9 on April 9, 2004.  
The wrapper was slightly modified by Joonas Paalasmaa for the 3.0 version  
in March 2012.

License of L-BFGS-B (Fortran code)

=====

The version included here (in lbfgsb.f) is 3.0 (released April 25, 2011). It was written by Ciyou Zhu, Richard Byrd, and Jorge Nocedal <nocedal@ece.nwu.edu>. It carries the following condition for use:

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## References

- \* R. H. Byrd, P. Lu and J. Nocedal. A Limited Memory Algorithm for Bound Constrained Optimization, (1995), SIAM Journal on Scientific and Statistical Computing, 16, 5, pp. 1190-1208.
- \* C. Zhu, R. H. Byrd and J. Nocedal. L-BFGS-B: Algorithm 778: L-BFGS-B, FORTRAN routines for large scale bound constrained optimization (1997), ACM Transactions on Mathematical Software, 23, 4, pp. 550 - 560.
- \* J.L. Morales and J. Nocedal. L-BFGS-B: Remark on Algorithm 778: L-BFGS-B, FORTRAN routines for large scale bound constrained optimization (2011), ACM Transactions on Mathematical Software, 38, 1.

\*\*\*\*\*

## The Python wrapper

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This code uses F2PY (<http://cens.ioc.ee/projects/f2py2e/>) to generate the wrapper around the Fortran code.

The Python code and wrapper are copyrighted 2004 by David M. Cooke <cookedm@physics.mcmaster.ca>.

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Name: Qhull

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C.B. Barber

Arlington, MA

and

The National Science and Technology Research Center for

Computation and Visualization of Geometric Structures

(The Geometry Center)

University of Minnesota

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Name: uarray

Files: scipy/\_lib/uarray/\*

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Name: LAPACK

Files: .libs/libopenb.so

Description: bundled in OpenBLAS

Availability: <https://github.com/xianyi/OpenBLAS/>

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Files: .libs/libopenb.so

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Availability: <https://github.com/xianyi/OpenBLAS/>

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Name: Random kit

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The rk\_random and rk\_seed functions algorithms and the original design of  
the Mersenne Twister RNG:

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Original algorithm for the implementation of `rk_interval` function from Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised by Magnus Jonsson.

Constants used in the `rk_double` implementation by Isaku Wada.

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## fiona 1.9.4.post1

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------(separator)-----

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certifi

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This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities

(CA). These were automatically extracted from Mozilla's root certificates

file (certdata.txt). This file can be found in the mozilla source tree:

<https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt>

It contains the certificates in PEM format and therefore

can be directly used with curl / libcurl / php\_curl, or with

an Apache+mod\_ssl webserver for SSL client authentication.

Just configure this file as the SSLCACertificateFile.#

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@(#) \$RCSfile: certdata.txt,v \$ \$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

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port/cpl\_float.cpp

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frmts/hdf4/hdf-eos/\*

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frmts/pcraster/libcsf

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port/cpl\_minizip\*

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ogr/ogrsf\_frmts/dxf/intronurbs.cpp

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alg/thinplatespline.cpp

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IEEE754 log() code derived from:

@(#)e\_log.c 1.3 95/01/18

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alg/libqhull

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frmts/pdf/pdffdataset.cpp (method PDFiumRenderPageBitmap())

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frmts/mrf/\* (apply when MRF driver included in build)

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cmake/modules/3.* (backported CMake find modules)

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ogr/ogrsf_frmts/flatgeobuf

FlatGeobuf

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This software embodiment is an implementation of

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Assignee: Esri.

Assignors/Inventors: Maurer, Thomas (Redlands, CA); Gao, Peng (Redlands, CA); Becker, Peter (Redlands, CA).

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tempita

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dragon4

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* This file contains a modified version of Ryan Juckett's Dragon4

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*

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Name: SPLITMIX64

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NAME: SFC64

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Adapted from a C++ implementation of Chris Doty-Humphrey's SFC PRNG.

<https://gist.github.com/imneme/f1f7821f07cf76504a97f6537c818083>

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Name: PCG64

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PCG Random Number Generation for C.

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Original algorithm for the implementation of `rk_interval` function from Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised by Magnus Jonsson.

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shapely 2.0.3

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tempita

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dragon4

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Written in 2015 by Sebastiano Vigna (vigna@acm.org)

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Name: SFC64

Adapted from a C++ implementation of Chris Doty-Humphrey's SFC PRNG.

<https://gist.github.com/imneme/f1f7821f07cf76504a97f6537c818083>

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Name: PCG64

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PCG Random Number Generation for C.

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name: MT19937

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The rk_random and rk_seed functions algorithms and the original design of

the Mersenne Twister RNG:

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Original algorithm for the implementation of rk_interval function from
Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised by
Magnus Jonsson.

Constants used in the rk_double implementation by Isaku Wada.

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Name: Julia

The ziggurat methods were derived from Julia.

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Components

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Name: numpy.ma

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_utils/_pep440

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core/src/common/dlpack

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Name: core/src/npymath/npymath_complex.c.src

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typing-extensions

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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 <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, 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 <https://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 Year Owner GPL-
from 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

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