Oracle® Cloud

Licensing Information User Manual for Oracle Autonomous AI Database Serverless



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Preface

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

Audience

This document is intended for Oracle Cloud users who want to manage and monitor Oracle Autonomous AI Database.

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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 AI 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 AI Database with Oracle Database 21c, then many concepts and features of this service are further documented here:

Oracle Database 21c

For additional information, see these Oracle resources:

- Welcome to Oracle Cloud Infrastructure
- *Oracle Cloud Infrastructure Object Storage*
- Get Started Using Autonomous JSON Database
- GoldenGate Real-Time Data Replication in Cloud
- *Using Oracle GoldenGate Cloud Service*
- *Getting Started with Oracle Analytics Cloud*

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- *User's Guide for Oracle Analytics Desktop*

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		---------- 	
		odpi/include/dpi.h
		---------- 	
		
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		//---
		
		//---
		// dpi.h
		// Include file for users of the ODPI-C library.
		//---
		
		---------- 	
		odpi/src/dpiImpl.h
		---------- 	
		//---
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		//----------
		// dpiImpl.h
		// Include file for implementation of ODPI-C library. The definitions in this
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		// dpi.h are intended to be used publicly.
		//----------
		
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		odpi/src/dpiErrorMessages.h
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		// dpiErrorMessages.h
		// Definition of error messages used in ODPI-C.
		//----------

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

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

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==========

jackson-dataformat-yaml 2.15.2

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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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maven-resolver-provider 3.9.9

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[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

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[INFO] | | | \- org.apache.maven.resolver:maven-resolver-named-locks:jar

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[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

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wagon-provider-api

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Mina SSHD-common 2.11.0

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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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2. swagger-annotations
3. swagger-jaxrs
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Fourth party dependencies

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Dependency:

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-lang33.12.0

jackson-dataformat-yaml 2.14.2

snakeyaml 2.0

jsr305 3.0.2

error_prone_annotations 2.18.0

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failureaccess 1.0.1

listenablefuture9999.0-empty-to-avoid-con...

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

Licenses: Apache 2.0

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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

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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

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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

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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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protocolbuffers/protobuf

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madler/zlib

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pybind/pybind11

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https://github.com/abseil/abseil-cpp

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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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msgpack/msgpack-python

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lanpa/tensorboardX

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cerberus

Cerberus is a lightweight and extensible data validation library for Python.

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MurmurHash3

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https://github.com/aappleby/smhasher

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gtest-ios-framework

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

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Triton Inference Server & Client, https://github.com/triton-inference-server

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microsoft/mimalloc, https://github.com/microsoft/mimalloc

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curl/curl

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Intel neural-compressor

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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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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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The ziggurat methods were derived from Julia.

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* https://github.com/eclipse-ee4j/jsonp

Third-party Content

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javax.ws.rs-api:2.0.1 (2.0.1)

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* Source:

http://search.maven.org/remotecontent?filepath=javax/ws/rs/jsr311-api/1.1.1/jsr311-api-1.1.1-sources.jar

javax:javaee-web-api:jar:7.0 (7.0)

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JUnit (4.12)

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Fourth Party Dependencies

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The project maintains the following source code repositories:

https://github.com/eclipse-ee4j/injection-api
https://github.com/eclipse-ee4j/injection-spec
https://github.com/eclipse-ee4j/injection-tck

Third-party Content

This project leverages the following third party content.

None

Cryptography

None

----------End of [1] ----------

----------[2] ----------

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Version 1.1

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----------[7] ----------

Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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* org.eclipse.jetty.toolchain:jetty-schemas

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logback-classic 1.4.14

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Logback-Core

ch.qos.logback:logback-core:jar

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org.slf4j:slf4j-api: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)

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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-
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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dragon4

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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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_utils/_pep440

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core/src/common/dlpack

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

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Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised by
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Anthropic API 0.28.1

Anthropic

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pandas 2.1.1

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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.

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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.

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*

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


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* Ryan Juckett's original code was under the Zlib license; he gave numpy

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*/

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libdivide

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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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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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Version 3, 29 June 2007

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geopandas 0.13.0

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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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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

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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

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2.3.4 2.3.3 2004 PSF yes

2.3.5 2.3.4 2005 PSF yes

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2.4.1 2.4 2005 PSF yes

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2.6.2 2.6.1 2009 PSF yes

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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

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/pdfdataset.cpp (method PDFiumRenderPageBitmap())

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FlatGeobuf

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

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Name: SPLITMIX64

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

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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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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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The ziggurat methods were derived from Julia.

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

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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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slf4j-api 2.0.7

Simple Logging Facade for Java (slf4j-api)

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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

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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)

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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

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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.pdf

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unuran-1.8.1/doc/figures/inversion.txt

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unuran-1.8.1/doc/figures/rejection_from_constant_hat.txt

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unuran-1.8.1/doc/figures/rou-cauchy.txt

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unuran-1.8.1/doc/src/Makefile.am

unuran-1.8.1/doc/src/Makefile.in

unuran-1.8.1/doc/src/README

unuran-1.8.1/doc/src/arvag.dh

unuran-1.8.1/doc/src/error_debug.dh

unuran-1.8.1/doc/src/examples.dh

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unuran-1.8.1/doc/src/intro.dh

unuran-1.8.1/doc/src/make_texi.pl

unuran-1.8.1/doc/src/methods.dh

unuran-1.8.1/doc/src/methods_cemp.texi

unuran-1.8.1/doc/src/methods_cont.texi

unuran-1.8.1/doc/src/methods_cvec.texi

unuran-1.8.1/doc/src/methods_cvemp.texi

unuran-1.8.1/doc/src/methods_discr.texi

unuran-1.8.1/doc/src/methods_matr.texi

unuran-1.8.1/doc/src/methods_mcmc.texi

unuran-1.8.1/doc/src/misc.dh

unuran-1.8.1/doc/src/ref_example0.texi

unuran-1.8.1/doc/src/ref_example0_str.texi

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unuran-1.8.1/doc/src/ref_example3.texi

unuran-1.8.1/doc/src/ref_example3_str.texi

unuran-1.8.1/doc/src/ref_example_FuncStr.texi

unuran-1.8.1/doc/src/ref_example_anti.texi

unuran-1.8.1/doc/src/ref_example_anti_str.texi

unuran-1.8.1/doc/src/ref_example_cext.texi

unuran-1.8.1/doc/src/ref_example_cont.texi

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/doc/src/ref_example_discr_str.texi

unuran-1.8.1/doc/src/ref_example_emp.texi

unuran-1.8.1/doc/src/ref_example_emp_str.texi

unuran-1.8.1/doc/src/ref_example_gsl.texi

unuran-1.8.1/doc/src/ref_example_mixt.texi

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unuran-1.8.1/doc/src/ref_example_win32_1.texi

unuran-1.8.1/doc/src/ref_example_win32_2.texi

unuran-1.8.1/doc/src/references.dh

unuran-1.8.1/doc/src/stddist.dh

unuran-1.8.1/doc/src/texinfo.tex

unuran-1.8.1/doc/src/top.dh

unuran-1.8.1/doc/src/unuran_src.texi

unuran-1.8.1/doc/stamp-1

unuran-1.8.1/doc/stamp-vti

unuran-1.8.1/doc/unuran.html

unuran-1.8.1/doc/unuran.info

unuran-1.8.1/doc/unuran.pdf

unuran-1.8.1/doc/unuran.texi

unuran-1.8.1/doc/unuran.txt

unuran-1.8.1/doc/unuran_win32.html

unuran-1.8.1/doc/unuran_win32.info

unuran-1.8.1/doc/unuran_win32.pdf

unuran-1.8.1/doc/unuran_win32.texi

unuran-1.8.1/doc/unuran_win32_libname.texi

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

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unuran-1.8.1/examples/example2.c

unuran-1.8.1/examples/example2_str.c

unuran-1.8.1/examples/example3.c

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unuran-1.8.1/examples/example_cont_str.c

unuran-1.8.1/examples/example_cpp.cpp

unuran-1.8.1/examples/example_dext.c

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

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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

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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

unuran-1.8.1/scripts/read_PDF.pl

unuran-1.8.1/scripts/remove_comments.pl

unuran-1.8.1/scripts/run_valgrind.sh

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unuran-1.8.1/scripts/win32/make_dll_def.pl

unuran-1.8.1/src/Makefile.am

unuran-1.8.1/src/Makefile.in

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unuran-1.8.1/src/distr/Makefile.am

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unuran-1.8.1/src/distributions/Makefile.am

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unuran-1.8.1/src/distributions/README

unuran-1.8.1/src/methods/Makefile.am

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unuran-1.8.1/src/parser/make_stringparser.pl

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unuran-1.8.1/src/uniform/mstd.c

unuran-1.8.1/src/uniform/unuran_urng_gsl.h

unuran-1.8.1/src/uniform/unuran_urng_prng.h

unuran-1.8.1/src/uniform/unuran_urng_rngstreams.h

unuran-1.8.1/src/uniform/urng_builtin.c

unuran-1.8.1/src/uniform/urng_builtin.h

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unuran-1.8.1/src/uniform/urng_randomshift.h

unuran-1.8.1/src/uniform/urng_rngstreams.c

unuran-1.8.1/src/uniform/urng_rngstreams.h

unuran-1.8.1/src/unuran.h.in

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unuran-1.8.1/src/utils/Makefile.am

unuran-1.8.1/src/utils/Makefile.in

unuran-1.8.1/tests/Makefile.am

unuran-1.8.1/tests/Makefile.in

unuran-1.8.1/tests/README.conf

unuran-1.8.1/tests/make_test_files.pl

unuran-1.8.1/tests/t_arou.c

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unuran-1.8.1/tests/t_ars.c

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unuran-1.8.1/tests/t_auto.c

unuran-1.8.1/tests/t_auto.conf

unuran-1.8.1/tests/t_cext.c

unuran-1.8.1/tests/t_cext.conf

unuran-1.8.1/tests/t_cstd.c

unuran-1.8.1/tests/t_cstd.conf

unuran-1.8.1/tests/t_dari.c

unuran-1.8.1/tests/t_dari.conf

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unuran-1.8.1/tests/t_dgt.c

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unuran-1.8.1/tests/t_distr_cont.c

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unuran-1.8.1/tests/t_distr_cvemp.c

unuran-1.8.1/tests/t_distr_cvemp.conf

unuran-1.8.1/tests/t_distr_cxtrans.c

unuran-1.8.1/tests/t_distr_cxtrans.conf

unuran-1.8.1/tests/t_distr_discr.c

unuran-1.8.1/tests/t_distr_discr.conf

unuran-1.8.1/tests/t_distr_matr.c

unuran-1.8.1/tests/t_distr_matr.conf

unuran-1.8.1/tests/t_dsrou.c

unuran-1.8.1/tests/t_dsrou.conf

unuran-1.8.1/tests/t_dss.c

unuran-1.8.1/tests/t_dss.conf

unuran-1.8.1/tests/t_dstd.c

unuran-1.8.1/tests/t_dstd.conf

unuran-1.8.1/tests/t_empk.c

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unuran-1.8.1/tests/t_empl.c

unuran-1.8.1/tests/t_empl.conf

unuran-1.8.1/tests/t_gibbs.c

unuran-1.8.1/tests/t_gibbs.conf

unuran-1.8.1/tests/t_hinv.c

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unuran-1.8.1/tests/t_mixt.c

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unuran-1.8.1/tests/t_mvtdr.c

unuran-1.8.1/tests/t_ninv.c

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unuran-1.8.1/tests/t_norta.c

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unuran-1.8.1/tests/t_nrou.c

unuran-1.8.1/tests/t_nrou.conf

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unuran-1.8.1/tests/t_unur_error.c

unuran-1.8.1/tests/t_unur_error.conf

unuran-1.8.1/tests/t_unur_tests.c

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unuran-1.8.1/tests/t_urng.c

unuran-1.8.1/tests/t_urng.conf

unuran-1.8.1/tests/t_utdr.c

unuran-1.8.1/tests/t_utdr.conf

unuran-1.8.1/tests/t_util_matrix.c

unuran-1.8.1/tests/t_util_matrix.conf

unuran-1.8.1/tests/t_vempk.c

unuran-1.8.1/tests/t_vempk.conf

unuran-1.8.1/tests/t_vnrou.c

unuran-1.8.1/tests/t_vnrou.conf

unuran-1.8.1/tests/t_x_gen.c

unuran-1.8.1/tests/t_x_gen.conf

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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

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_tdrgw.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/specfunct/cephes_source.h

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Name: LAPACK

Files: .libs/libopenb*.so

Description: bundled in OpenBLAS

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

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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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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

unuran-1.8.1/scripts/read_PDF.pl

unuran-1.8.1/scripts/remove_comments.pl

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unuran-1.8.1/scripts/run_valgrind.sh

unuran-1.8.1/scripts/win32/Makefile.win32

unuran-1.8.1/scripts/win32/build.sh

unuran-1.8.1/scripts/win32/example1.c

unuran-1.8.1/scripts/win32/example2.c

unuran-1.8.1/scripts/win32/make_dll_def.pl

unuran-1.8.1/src/Makefile.am

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unuran-1.8.1/src/README

unuran-1.8.1/src/distr/Makefile.am

unuran-1.8.1/src/distr/Makefile.in

unuran-1.8.1/src/distributions/Makefile.am

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unuran-1.8.1/src/parser/functparser_doc.dh

unuran-1.8.1/src/parser/make_stringparser.pl

unuran-1.8.1/src/parser/stringparser_doc.dh

unuran-1.8.1/src/specfunct/Makefile.am

unuran-1.8.1/src/specfunct/Makefile.in

unuran-1.8.1/src/tests/Makefile.am

unuran-1.8.1/src/tests/Makefile.in

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unuran-1.8.1/src/uniform/Makefile.in

unuran-1.8.1/src/uniform/fish.c

unuran-1.8.1/src/uniform/mrg31k3p.c

unuran-1.8.1/src/uniform/mstd.c

unuran-1.8.1/src/uniform/unuran_urng_gsl.h

unuran-1.8.1/src/uniform/unuran_urng_prng.h

unuran-1.8.1/src/uniform/unuran_urng_rngstreams.h

unuran-1.8.1/src/uniform/urng_builtin.c

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unuran-1.8.1/src/uniform/urng_builtin.h

unuran-1.8.1/src/uniform/urng_fvoid.c

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unuran-1.8.1/src/uniform/urng_gsl.h

unuran-1.8.1/src/uniform/urng_gslqrng.c

unuran-1.8.1/src/uniform/urng_gslqrng.h

unuran-1.8.1/src/uniform/urng_prng.c

unuran-1.8.1/src/uniform/urng_prng.h

unuran-1.8.1/src/uniform/urng_randomshift.c

unuran-1.8.1/src/uniform/urng_randomshift.h

unuran-1.8.1/src/uniform/urng_rngstreams.c

unuran-1.8.1/src/uniform/urng_rngstreams.h

unuran-1.8.1/src/unuran.h.in

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unuran-1.8.1/tests/t_distr_condi.conf

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unuran-1.8.1/tests/t_itdr.conf

unuran-1.8.1/tests/t_mcorr.c

unuran-1.8.1/tests/t_mcorr.conf

unuran-1.8.1/tests/t_mixt.c

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unuran-1.8.1/tests/t_tdr_gw.c

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unuran-1.8.1/tests/t_tdr_ps.c

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unuran-1.8.1/tests/test_StdDistr.c

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

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

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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/src/specfunct/cephes_source.h

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scikit-learn 1.2.1

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

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

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========== Dependencies ==========

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* 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.

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ARPACK is a collection of Fortran77 subroutines designed to solve large scale eigenvalue problems.

The package is designed to compute a few eigenvalues and corresponding eigenvectors of a general n by n matrix A. It is most appropriate for large sparse or structured matrices A where structured means that a matrix-vector product w <- Av requires order n rather than the usual order n**2 floating point operations. This software is based upon an algorithmic variant of the Arnoldi process called the Implicitly Restarted Arnoldi Method (IRAM). When the matrix A is symmetric it reduces to a variant of the Lanczos process called the Implicitly Restarted Lanczos Method (IRLM). These variants may be viewed as a synthesis of the Arnoldi/Lanczos process with the Implicitly Shifted QR technique that is suitable for large scale problems. For many standard problems, a matrix factorization is not required. Only the action of the matrix on a vector is needed. ARPACK software is capable of solving large scale symmetric, nonsymmetric, and generalized eigenproblems from significant application areas. The software is designed to compute a few (k) eigenvalues with user specified features such as those of largest real part or largest magnitude. Storage requirements are on the order of n*k locations. No auxiliary storage is required. A set of Schur basis vectors for the desired k-dimensional eigen-space is computed which is numerically orthogonal to working precision. Numerically accurate eigenvectors are available on request.

Important Features:

o Reverse Communication Interface.

o Single and Double Precision Real Arithmetic Versions for Symmetric, Non-symmetric, Standard or Generalized Problems.

o Single and Double Precision Complex Arithmetic Versions for Standard or Generalized Problems.

o Routines for Banded Matrices - Standard or Generalized Problems.

o Routines for The Singular Value Decomposition.

o Example driver routines that may be used as templates to implement numerous Shift-Invert strategies for all problem types, data types and precision.

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Name: LAPACK

Files: extra-dll\libopenb*.dll

Description: bundled in OpenBLAS

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

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tempita

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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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setuptools 70.0.0

setuptools

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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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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.

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agg24-svn

The Anti-Grain Geometry Project
A high quality rendering engine for C++
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Anti-Grain Geometry - Version 2.4
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ttutil.cpp

/*
* Modified for use within matplotlib
* 5 July 2007
* Michael Droettboom
*/

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

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/*

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*/

/*

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

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*/

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/*

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/*
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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
--------------
/*
* Modified for use within matplotlib
* 5 July 2007
* Michael Droettboom
*/

/*
** ~ppr/src/pprdrv/pprdrv_tt2.c
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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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**

** Last revised 11 July 1995.

*/

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truetype.h

/*

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*/

/*

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

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**

** This include file is shared by the source files

** "pprdrv/pprdrv_tt.c" and "pprdrv/pprdrv_tt2.c".

**

** Last modified 19 April 1995.

*/

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_tkmini.h

/* Small excerpts from the Tcl / Tk 8.6 headers

*

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PCG64

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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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Original algorithm for the implementation of rk_interval function from
Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised by
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Constants used in the rk_double implementation by Isaku Wada.

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SPLITMIX64

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dragon4

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

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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.

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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port/cpl_float.cpp

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alg/thinplatespline.cpp

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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Assignee: Esri.

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

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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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Version 2.0

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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

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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)

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

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python-dateutil

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The rk_random and rk_seed functions algorithms and the original design of
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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.*

License: MIT

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Name: qd

Files: scipy/special/cephes/dd_*.[ch]

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Name: pypocketfft

Files: scipy/fft/_pocketfft/[pocketfft.h, pypocketfft.cxx]

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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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Name: HiGHS

Files: scipy/optimize/_highs/*

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Name: Boost

Files: scipy/_lib/boost_math/*

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Name: Biasedurn

Files: scipy/stats/biasedurn/*

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Name: UNU.RAN

Files: scipy/_lib/unuran/*

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Name: NumPy

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

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For details, see header inside scipy/stats/_rcont/logfactorial.h

and scipy/stats/_rcont/logfactorial.c

==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 <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,

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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/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

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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.pdf

unuran-1.8.1/doc/figures/inversion.png

unuran-1.8.1/doc/figures/inversion.txt

unuran-1.8.1/doc/figures/rejection_from_constant_hat.eps

unuran-1.8.1/doc/figures/rejection_from_constant_hat.pdf

unuran-1.8.1/doc/figures/rejection_from_constant_hat.png

unuran-1.8.1/doc/figures/rejection_from_constant_hat.txt

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unuran-1.8.1/doc/figures/rou-cauchy.png

unuran-1.8.1/doc/figures/rou-cauchy.txt

unuran-1.8.1/doc/figures/texpict2img.pl

unuran-1.8.1/doc/src/Makefile.am

unuran-1.8.1/doc/src/Makefile.in

unuran-1.8.1/doc/src/README

unuran-1.8.1/doc/src/arvag.dh

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unuran-1.8.1/doc/src/glossary.dh

unuran-1.8.1/doc/src/index.dh

unuran-1.8.1/doc/src/installation.dh

unuran-1.8.1/doc/src/intro.dh

unuran-1.8.1/doc/src/make_texi.pl

unuran-1.8.1/doc/src/methods.dh

unuran-1.8.1/doc/src/methods_cemp.texi

unuran-1.8.1/doc/src/methods_cont.texi

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unuran-1.8.1/doc/src/methods_cvemp.texi

unuran-1.8.1/doc/src/methods_discr.texi

unuran-1.8.1/doc/src/methods_matr.texi

unuran-1.8.1/doc/src/methods_mcmc.texi

unuran-1.8.1/doc/src/misc.dh

unuran-1.8.1/doc/src/ref_example0.texi

unuran-1.8.1/doc/src/ref_example0_str.texi

unuran-1.8.1/doc/src/ref_example1.texi

unuran-1.8.1/doc/src/ref_example1_str.texi

unuran-1.8.1/doc/src/ref_example2.texi

unuran-1.8.1/doc/src/ref_example2_str.texi

unuran-1.8.1/doc/src/ref_example3.texi

unuran-1.8.1/doc/src/ref_example3_str.texi

unuran-1.8.1/doc/src/ref_example_FuncStr.texi

unuran-1.8.1/doc/src/ref_example_anti.texi

unuran-1.8.1/doc/src/ref_example_anti_str.texi

unuran-1.8.1/doc/src/ref_example_cext.texi

unuran-1.8.1/doc/src/ref_example_cont.texi

unuran-1.8.1/doc/src/ref_example_cont_str.texi

unuran-1.8.1/doc/src/ref_example_dext.texi

unuran-1.8.1/doc/src/ref_example_discr.texi

unuran-1.8.1/doc/src/ref_example_discr_str.texi

unuran-1.8.1/doc/src/ref_example_emp.texi

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unuran-1.8.1/doc/src/ref_example_vemp.texi

unuran-1.8.1/doc/src/ref_example_win32_1.texi

unuran-1.8.1/doc/src/ref_example_win32_2.texi

unuran-1.8.1/doc/src/references.dh

unuran-1.8.1/doc/src/stddist.dh

unuran-1.8.1/doc/src/texinfo.tex

unuran-1.8.1/doc/src/top.dh

unuran-1.8.1/doc/src/unuran_src.texi

unuran-1.8.1/doc/stamp-1

unuran-1.8.1/doc/stamp-vti

unuran-1.8.1/doc/unuran.html

unuran-1.8.1/doc/unuran.info

unuran-1.8.1/doc/unuran.pdf

unuran-1.8.1/doc/unuran.texi

unuran-1.8.1/doc/unuran.txt

unuran-1.8.1/doc/unuran_win32.html

unuran-1.8.1/doc/unuran_win32.info

unuran-1.8.1/doc/unuran_win32.pdf

unuran-1.8.1/doc/unuran_win32.texi

unuran-1.8.1/doc/unuran_win32_libname.texi

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

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unuran-1.8.1/examples/example2_str.c

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unuran-1.8.1/examples/example3_str.c

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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

unuran-1.8.1/examples/example_dext.c

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

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unuran-1.8.1/examples/example_mixt_inv.c

unuran-1.8.1/examples/example_prng.c

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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

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unuran-1.8.1/scripts/read_PDF.pl

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unuran-1.8.1/scripts/run_valgrind.sh

unuran-1.8.1/scripts/win32/Makefile.win32

unuran-1.8.1/scripts/win32/build.sh

unuran-1.8.1/scripts/win32/example1.c

unuran-1.8.1/scripts/win32/example2.c

unuran-1.8.1/scripts/win32/make_dll_def.pl

unuran-1.8.1/src/Makefile.am

unuran-1.8.1/src/Makefile.in

unuran-1.8.1/src/README

unuran-1.8.1/src/distr/Makefile.am

unuran-1.8.1/src/distr/Makefile.in

unuran-1.8.1/src/distributions/Makefile.am

unuran-1.8.1/src/distributions/Makefile.in

unuran-1.8.1/src/distributions/README

unuran-1.8.1/src/methods/Makefile.am

unuran-1.8.1/src/methods/Makefile.in

unuran-1.8.1/src/parser/Makefile.am

unuran-1.8.1/src/parser/Makefile.in

unuran-1.8.1/src/parser/functparser_doc.dh

unuran-1.8.1/src/parser/make_stringparser.pl

unuran-1.8.1/src/parser/stringparser_doc.dh

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unuran-1.8.1/src/specfunct/Makefile.in

unuran-1.8.1/src/tests/Makefile.am

unuran-1.8.1/src/tests/Makefile.in

unuran-1.8.1/src/uniform/Makefile.am

unuran-1.8.1/src/uniform/Makefile.in

unuran-1.8.1/src/uniform/fish.c

unuran-1.8.1/src/uniform/mrg31k3p.c

unuran-1.8.1/src/uniform/mstd.c

unuran-1.8.1/src/uniform/unuran_urng_gsl.h

unuran-1.8.1/src/uniform/unuran_urng_prng.h

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unuran-1.8.1/src/uniform/urng_randomshift.h

unuran-1.8.1/src/uniform/urng_rngstreams.c

unuran-1.8.1/src/uniform/urng_rngstreams.h

unuran-1.8.1/src/unuran.h.in

unuran-1.8.1/src/urng/Makefile.am

unuran-1.8.1/src/urng/Makefile.in

unuran-1.8.1/src/utils/Makefile.am

unuran-1.8.1/src/utils/Makefile.in

unuran-1.8.1/tests/Makefile.am

unuran-1.8.1/tests/Makefile.in

unuran-1.8.1/tests/README.conf

unuran-1.8.1/tests/make_test_files.pl

unuran-1.8.1/tests/t_arou.c

unuran-1.8.1/tests/t_arou.conf

unuran-1.8.1/tests/t_ars.c

unuran-1.8.1/tests/t_ars.conf

unuran-1.8.1/tests/t_auto.c

unuran-1.8.1/tests/t_auto.conf

unuran-1.8.1/tests/t_cext.c

unuran-1.8.1/tests/t_cext.conf

unuran-1.8.1/tests/t_cstd.c

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unuran-1.8.1/tests/t_deprecated_tdrgw.c

unuran-1.8.1/tests/t_deprecated_vmt.c

unuran-1.8.1/tests/t_deprecated_vmt.conf

unuran-1.8.1/tests/t_dext.c

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unuran-1.8.1/tests/t_distr_cemp.c

unuran-1.8.1/tests/t_distr_cemp.conf

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unuran-1.8.1/tests/t_distr_condi.conf

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unuran-1.8.1/tests/t_distr_cvec.c

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unuran-1.8.1/tests/t_dsrou.conf

unuran-1.8.1/tests/t_dss.c

unuran-1.8.1/tests/t_dss.conf

unuran-1.8.1/tests/t_dstd.c

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unuran-1.8.1/tests/t_dstd.conf

unuran-1.8.1/tests/t_empk.c

unuran-1.8.1/tests/t_empk.conf

unuran-1.8.1/tests/t_empl.c

unuran-1.8.1/tests/t_empl.conf

unuran-1.8.1/tests/t_gibbs.c

unuran-1.8.1/tests/t_gibbs.conf

unuran-1.8.1/tests/t_hinv.c

unuran-1.8.1/tests/t_hinv.conf

unuran-1.8.1/tests/t_hist.c

unuran-1.8.1/tests/t_hist.conf

unuran-1.8.1/tests/t_hitro.c

unuran-1.8.1/tests/t_hrb.c

unuran-1.8.1/tests/t_hrb.conf

unuran-1.8.1/tests/t_hrd.c

unuran-1.8.1/tests/t_hrd.conf

unuran-1.8.1/tests/t_hri.c

unuran-1.8.1/tests/t_hri.conf

unuran-1.8.1/tests/t_info.c

unuran-1.8.1/tests/t_info.conf

unuran-1.8.1/tests/t_itdr.c

unuran-1.8.1/tests/t_itdr.conf

unuran-1.8.1/tests/t_mcorr.c

unuran-1.8.1/tests/t_mcorr.conf

unuran-1.8.1/tests/t_mixt.c

unuran-1.8.1/tests/t_mvstd.c

unuran-1.8.1/tests/t_mvstd.conf

unuran-1.8.1/tests/t_mvtdr.c

unuran-1.8.1/tests/t_ninv.c

unuran-1.8.1/tests/t_ninv.conf

unuran-1.8.1/tests/t_norta.c

unuran-1.8.1/tests/t_norta.conf

unuran-1.8.1/tests/t_nrou.c

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unuran-1.8.1/tests/t_pinv.c

unuran-1.8.1/tests/t_srou.c

unuran-1.8.1/tests/t_srou.conf

unuran-1.8.1/tests/t_ssr.c

unuran-1.8.1/tests/t_ssr.conf

unuran-1.8.1/tests/t_stringparser.c

unuran-1.8.1/tests/t_stringparser.conf

unuran-1.8.1/tests/t_tabl.c

unuran-1.8.1/tests/t_tabl.conf

unuran-1.8.1/tests/t_tdr.c

unuran-1.8.1/tests/t_tdr.conf

unuran-1.8.1/tests/t_tdr_gw.c

unuran-1.8.1/tests/t_tdr_gw.conf

unuran-1.8.1/tests/t_tdr_ia.c

unuran-1.8.1/tests/t_tdr_ia.conf

unuran-1.8.1/tests/t_tdr_ps.c

unuran-1.8.1/tests/t_tdr_ps.conf

unuran-1.8.1/tests/t_unif.c

unuran-1.8.1/tests/t_unif.conf

unuran-1.8.1/tests/t_unur_error.c

unuran-1.8.1/tests/t_unur_error.conf

unuran-1.8.1/tests/t_unur_tests.c

unuran-1.8.1/tests/t_unur_tests.conf

unuran-1.8.1/tests/t_urng.c

unuran-1.8.1/tests/t_urng.conf

unuran-1.8.1/tests/t_utdr.c

unuran-1.8.1/tests/t_utdr.conf

unuran-1.8.1/tests/t_util_matrix.c

unuran-1.8.1/tests/t_util_matrix.conf

unuran-1.8.1/tests/t_vempk.c

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unuran-1.8.1/tests/t_vnrou.c

unuran-1.8.1/tests/t_vnrou.conf

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unuran-1.8.1/tests/t_x_gen.conf

unuran-1.8.1/tests/test_StdDistr.c

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

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_tdrgw.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/specfunct/cephes_source.h

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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

*

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```
* 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
```


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* 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: 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),

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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: Qhull

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C.B. Barber
Arlington, MA

and

The National Science and Technology Research Center for
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University of Minnesota

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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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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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Constants used in the rk_double implementation by Isaku Wada.

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libpysal 4.9.2

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certifi

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

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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

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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

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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: L-BFGS-B

Files: scipy/optimize/lbfgsb/*

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Name: LAPJVsp

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Name: Faddeeva

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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 <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,

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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.html

unuran-1.8.1/doc/unuran.info

unuran-1.8.1/doc/unuran.pdf

unuran-1.8.1/doc/unuran.texi

unuran-1.8.1/doc/unuran.txt

unuran-1.8.1/doc/unuran_win32.html

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unuran-1.8.1/doc/unuran_win32.texi

unuran-1.8.1/doc/unuran_win32_libname.texi

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

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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

unuran-1.8.1/examples/example_dext.c

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

unuran-1.8.1/scripts/read_PDF.pl

unuran-1.8.1/scripts/remove_comments.pl

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unuran-1.8.1/scripts/win32/Makefile.win32

unuran-1.8.1/scripts/win32/build.sh

unuran-1.8.1/scripts/win32/example1.c

unuran-1.8.1/scripts/win32/example2.c

unuran-1.8.1/scripts/win32/make_dll_def.pl

unuran-1.8.1/src/Makefile.am

unuran-1.8.1/src/Makefile.in

unuran-1.8.1/src/README

unuran-1.8.1/src/distr/Makefile.am

unuran-1.8.1/src/distr/Makefile.in

unuran-1.8.1/src/distributions/Makefile.am

unuran-1.8.1/src/distributions/Makefile.in

unuran-1.8.1/src/distributions/README

unuran-1.8.1/src/methods/Makefile.am

unuran-1.8.1/src/methods/Makefile.in

unuran-1.8.1/src/parser/Makefile.am

unuran-1.8.1/src/parser/Makefile.in

unuran-1.8.1/src/parser/functparser_doc.dh

unuran-1.8.1/src/parser/make_stringparser.pl

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unuran-1.8.1/src/specfunct/Makefile.am

unuran-1.8.1/src/specfunct/Makefile.in

unuran-1.8.1/src/tests/Makefile.am

unuran-1.8.1/src/tests/Makefile.in

unuran-1.8.1/src/uniform/Makefile.am

unuran-1.8.1/src/uniform/Makefile.in

unuran-1.8.1/src/uniform/fish.c

unuran-1.8.1/src/uniform/mrg31k3p.c

unuran-1.8.1/src/uniform/mstd.c

unuran-1.8.1/src/uniform/unuran_urng_gsl.h

unuran-1.8.1/src/uniform/unuran_urng_prng.h

unuran-1.8.1/src/uniform/unuran_urng_rngstreams.h

unuran-1.8.1/src/uniform/urng_builtin.c

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unuran-1.8.1/tests/t_ars.conf

unuran-1.8.1/tests/t_auto.c

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unuran-1.8.1/tests/t_cext.c

unuran-1.8.1/tests/t_cext.conf

unuran-1.8.1/tests/t_cstd.c

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unuran-1.8.1/tests/t_dari.c

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unuran-1.8.1/tests/t_deprecated_tdrgw.c

unuran-1.8.1/tests/t_deprecated_vmt.c

unuran-1.8.1/tests/t_deprecated_vmt.conf

unuran-1.8.1/tests/t_dext.c

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unuran-1.8.1/tests/t_dgt.c

unuran-1.8.1/tests/t_dgt.conf

unuran-1.8.1/tests/t_distr.c

unuran-1.8.1/tests/t_distr.conf

unuran-1.8.1/tests/t_distr_cemp.c

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unuran-1.8.1/tests/t_distr_condi.conf

unuran-1.8.1/tests/t_distr_cont.c

unuran-1.8.1/tests/t_distr_cont.conf

unuran-1.8.1/tests/t_distr_corder.c

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unuran-1.8.1/tests/t_distr_cvec.c

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unuran-1.8.1/tests/t_distr_discr.c

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unuran-1.8.1/tests/t_distr_matr.c

unuran-1.8.1/tests/t_distr_matr.conf

unuran-1.8.1/tests/t_dsrou.c

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unuran-1.8.1/tests/t_dss.c

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unuran-1.8.1/tests/t_dstd.c

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unuran-1.8.1/tests/t_ssr.c

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

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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.

/*--*/

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```
/* 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.
```


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*

* 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

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"""

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: Qhull

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C.B. Barber
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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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Multiscale Geographically Weighted Regression (mgwr) 2.2.1

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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

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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

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2.4 2.3 2004 PSF yes

2.4.1 2.4 2005 PSF yes

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2.4.3 2.4.2 2006 PSF yes

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2.5.2 2.5.1 2008 PSF yes

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2.6 2.5 2008 PSF yes

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2.6.2 2.6.1 2009 PSF yes

2.6.3 2.6.2 2009 PSF yes

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python-dateutil

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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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== splitmix64 (embedded)

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For details, see header inside scipy/stats/_rcont/logfactorial.h

and scipy/stats/_rcont/logfactorial.c

==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 <mhaberla@calpoly.edu>

Copyright © 2021, 2025, Oracle and/or its affiliates.

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:

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unuran-1.8.1/autoconf/config.guess

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unuran-1.8.1/doc/figures/Makefile.am

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unuran-1.8.1/doc/figures/discrete_inversion.eps

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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_tdrgw.h

unuran-1.8.1/src/methods/deprecated_vmt.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/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

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```
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
```


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* 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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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
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* C. Zhu, R. H. Byrd and J. Nocedal. L-BFGS-B: Algorithm 778: L-BFGS-B,
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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.

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<cookedm@physics.mcmaster.ca>.

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Name: SuperLU

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Name: Qhull

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C.B. Barber
Arlington, MA

and

The National Science and Technology Research Center for
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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

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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

==========

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

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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

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2.4 2.3 2004 PSF yes

2.4.1 2.4 2005 PSF yes

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2.4.3 2.4.2 2006 PSF yes

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2.6.2 2.6.1 2009 PSF yes

2.6.3 2.6.2 2009 PSF yes

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python-dateutil

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

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

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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>

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

Dear Matt The C++ code for these distributions without binding to the R project

are available here:

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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

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unuran-1.8.1/doc/src/ref_example_dext.texi

unuran-1.8.1/doc/src/ref_example_discr.texi

unuran-1.8.1/doc/src/ref_example_discr_str.texi

unuran-1.8.1/doc/src/ref_example_emp.texi

unuran-1.8.1/doc/src/ref_example_emp_str.texi

unuran-1.8.1/doc/src/ref_example_gsl.texi

unuran-1.8.1/doc/src/ref_example_mixt.texi

unuran-1.8.1/doc/src/ref_example_mixt_inv.texi

unuran-1.8.1/doc/src/ref_example_rngstreams.texi

unuran-1.8.1/doc/src/ref_example_vemp.texi

unuran-1.8.1/doc/src/ref_example_win32_1.texi

unuran-1.8.1/doc/src/ref_example_win32_2.texi

unuran-1.8.1/doc/src/references.dh

unuran-1.8.1/doc/src/stddist.dh

unuran-1.8.1/doc/src/texinfo.tex

unuran-1.8.1/doc/src/top.dh

unuran-1.8.1/doc/src/unuran_src.texi

unuran-1.8.1/doc/stamp-1

unuran-1.8.1/doc/stamp-vti

unuran-1.8.1/doc/unuran.html

unuran-1.8.1/doc/unuran.info

unuran-1.8.1/doc/unuran.pdf

unuran-1.8.1/doc/unuran.texi

unuran-1.8.1/doc/unuran.txt

unuran-1.8.1/doc/unuran_win32.html

unuran-1.8.1/doc/unuran_win32.info

unuran-1.8.1/doc/unuran_win32.pdf

unuran-1.8.1/doc/unuran_win32.texi

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/Makefile.in

unuran-1.8.1/examples/example0.c

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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

unuran-1.8.1/examples/example_dext.c

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

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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

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

unuran-1.8.1/scripts/win32/example1.c

unuran-1.8.1/scripts/win32/example2.c

unuran-1.8.1/scripts/win32/make_dll_def.pl

unuran-1.8.1/src/Makefile.am

unuran-1.8.1/src/Makefile.in

unuran-1.8.1/src/README

unuran-1.8.1/src/distr/Makefile.am

unuran-1.8.1/src/distr/Makefile.in

unuran-1.8.1/src/distributions/Makefile.am

unuran-1.8.1/src/distributions/Makefile.in

unuran-1.8.1/src/distributions/README

unuran-1.8.1/src/methods/Makefile.am

unuran-1.8.1/src/methods/Makefile.in

unuran-1.8.1/src/parser/Makefile.am

unuran-1.8.1/src/parser/Makefile.in

unuran-1.8.1/src/parser/functparser_doc.dh

unuran-1.8.1/src/parser/make_stringparser.pl

unuran-1.8.1/src/parser/stringparser_doc.dh

unuran-1.8.1/src/specfunct/Makefile.am

unuran-1.8.1/src/specfunct/Makefile.in

unuran-1.8.1/src/tests/Makefile.am

unuran-1.8.1/src/tests/Makefile.in

unuran-1.8.1/src/uniform/Makefile.am

unuran-1.8.1/src/uniform/Makefile.in

unuran-1.8.1/src/uniform/fish.c

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unuran-1.8.1/src/uniform/mrg31k3p.c

unuran-1.8.1/src/uniform/mstd.c

unuran-1.8.1/src/uniform/unuran_urng_gsl.h

unuran-1.8.1/src/uniform/unuran_urng_prng.h

unuran-1.8.1/src/uniform/unuran_urng_rngstreams.h

unuran-1.8.1/src/uniform/urng_builtin.c

unuran-1.8.1/src/uniform/urng_builtin.h

unuran-1.8.1/src/uniform/urng_fvoid.c

unuran-1.8.1/src/uniform/urng_fvoid.h

unuran-1.8.1/src/uniform/urng_gsl.c

unuran-1.8.1/src/uniform/urng_gsl.h

unuran-1.8.1/src/uniform/urng_gslqrng.c

unuran-1.8.1/src/uniform/urng_gslqrng.h

unuran-1.8.1/src/uniform/urng_prng.c

unuran-1.8.1/src/uniform/urng_prng.h

unuran-1.8.1/src/uniform/urng_randomshift.c

unuran-1.8.1/src/uniform/urng_randomshift.h

unuran-1.8.1/src/uniform/urng_rngstreams.c

unuran-1.8.1/src/uniform/urng_rngstreams.h

unuran-1.8.1/src/unuran.h.in

unuran-1.8.1/src/urng/Makefile.am

unuran-1.8.1/src/urng/Makefile.in

unuran-1.8.1/src/utils/Makefile.am

unuran-1.8.1/src/utils/Makefile.in

unuran-1.8.1/tests/Makefile.am

unuran-1.8.1/tests/Makefile.in

unuran-1.8.1/tests/README.conf

unuran-1.8.1/tests/make_test_files.pl

unuran-1.8.1/tests/t_arou.c

unuran-1.8.1/tests/t_arou.conf

unuran-1.8.1/tests/t_ars.c

unuran-1.8.1/tests/t_ars.conf

unuran-1.8.1/tests/t_auto.c

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unuran-1.8.1/tests/t_cext.c

unuran-1.8.1/tests/t_cext.conf

unuran-1.8.1/tests/t_cstd.c

unuran-1.8.1/tests/t_cstd.conf

unuran-1.8.1/tests/t_dari.c

unuran-1.8.1/tests/t_dari.conf

unuran-1.8.1/tests/t_dau.c

unuran-1.8.1/tests/t_dau.conf

unuran-1.8.1/tests/t_deprecated_tdrgw.c

unuran-1.8.1/tests/t_deprecated_vmt.c

unuran-1.8.1/tests/t_deprecated_vmt.conf

unuran-1.8.1/tests/t_dext.c

unuran-1.8.1/tests/t_dext.conf

unuran-1.8.1/tests/t_dgt.c

unuran-1.8.1/tests/t_dgt.conf

unuran-1.8.1/tests/t_distr.c

unuran-1.8.1/tests/t_distr.conf

unuran-1.8.1/tests/t_distr_cemp.c

unuran-1.8.1/tests/t_distr_cemp.conf

unuran-1.8.1/tests/t_distr_condi.c

unuran-1.8.1/tests/t_distr_condi.conf

unuran-1.8.1/tests/t_distr_cont.c

unuran-1.8.1/tests/t_distr_cont.conf

unuran-1.8.1/tests/t_distr_corder.c

unuran-1.8.1/tests/t_distr_corder.conf

unuran-1.8.1/tests/t_distr_cvec.c

unuran-1.8.1/tests/t_distr_cvec.conf

unuran-1.8.1/tests/t_distr_cvemp.c

unuran-1.8.1/tests/t_distr_cvemp.conf

unuran-1.8.1/tests/t_distr_cxtrans.c

unuran-1.8.1/tests/t_distr_cxtrans.conf

unuran-1.8.1/tests/t_distr_discr.c

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unuran-1.8.1/tests/t_distr_matr.c

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unuran-1.8.1/tests/t_dsrou.c

unuran-1.8.1/tests/t_dsrou.conf

unuran-1.8.1/tests/t_dss.c

unuran-1.8.1/tests/t_dss.conf

unuran-1.8.1/tests/t_dstd.c

unuran-1.8.1/tests/t_dstd.conf

unuran-1.8.1/tests/t_empk.c

unuran-1.8.1/tests/t_empk.conf

unuran-1.8.1/tests/t_empl.c

unuran-1.8.1/tests/t_empl.conf

unuran-1.8.1/tests/t_gibbs.c

unuran-1.8.1/tests/t_gibbs.conf

unuran-1.8.1/tests/t_hinv.c

unuran-1.8.1/tests/t_hinv.conf

unuran-1.8.1/tests/t_hist.c

unuran-1.8.1/tests/t_hist.conf

unuran-1.8.1/tests/t_hitro.c

unuran-1.8.1/tests/t_hrb.c

unuran-1.8.1/tests/t_hrb.conf

unuran-1.8.1/tests/t_hrd.c

unuran-1.8.1/tests/t_hrd.conf

unuran-1.8.1/tests/t_hri.c

unuran-1.8.1/tests/t_hri.conf

unuran-1.8.1/tests/t_info.c

unuran-1.8.1/tests/t_info.conf

unuran-1.8.1/tests/t_itdr.c

unuran-1.8.1/tests/t_itdr.conf

unuran-1.8.1/tests/t_mcorr.c

unuran-1.8.1/tests/t_mcorr.conf

unuran-1.8.1/tests/t_mixt.c

unuran-1.8.1/tests/t_mvstd.c

unuran-1.8.1/tests/t_mvstd.conf

unuran-1.8.1/tests/t_mvtdr.c

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unuran-1.8.1/tests/t_ninv.conf

unuran-1.8.1/tests/t_norta.c

unuran-1.8.1/tests/t_norta.conf

unuran-1.8.1/tests/t_nrou.c

unuran-1.8.1/tests/t_nrou.conf

unuran-1.8.1/tests/t_pinv

unuran-1.8.1/tests/t_pinv.c

unuran-1.8.1/tests/t_srou.c

unuran-1.8.1/tests/t_srou.conf

unuran-1.8.1/tests/t_ssr.c

unuran-1.8.1/tests/t_ssr.conf

unuran-1.8.1/tests/t_stringparser.c

unuran-1.8.1/tests/t_stringparser.conf

unuran-1.8.1/tests/t_tabl.c

unuran-1.8.1/tests/t_tabl.conf

unuran-1.8.1/tests/t_tdr.c

unuran-1.8.1/tests/t_tdr.conf

unuran-1.8.1/tests/t_tdr_gw.c

unuran-1.8.1/tests/t_tdr_gw.conf

unuran-1.8.1/tests/t_tdr_ia.c

unuran-1.8.1/tests/t_tdr_ia.conf

unuran-1.8.1/tests/t_tdr_ps.c

unuran-1.8.1/tests/t_tdr_ps.conf

unuran-1.8.1/tests/t_unif.c

unuran-1.8.1/tests/t_unif.conf

unuran-1.8.1/tests/t_unur_error.c

unuran-1.8.1/tests/t_unur_error.conf

unuran-1.8.1/tests/t_unur_tests.c

unuran-1.8.1/tests/t_unur_tests.conf

unuran-1.8.1/tests/t_urng.c

unuran-1.8.1/tests/t_urng.conf

unuran-1.8.1/tests/t_utdr.c

unuran-1.8.1/tests/t_utdr.conf

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unuran-1.8.1/tests/t_util_matrix.c

unuran-1.8.1/tests/t_util_matrix.conf

unuran-1.8.1/tests/t_vempk.c

unuran-1.8.1/tests/t_vempk.conf

unuran-1.8.1/tests/t_vnrou.c

unuran-1.8.1/tests/t_vnrou.conf

unuran-1.8.1/tests/t_x_gen.c

unuran-1.8.1/tests/t_x_gen.conf

unuran-1.8.1/tests/test_StdDistr.c

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

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_tdrgw.h

unuran-1.8.1/src/methods/deprecated_vmt.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/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

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```
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
```


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* 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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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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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: Qhull

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C.B. Barber
Arlington, MA

and

The National Science and Technology Research Center for
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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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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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click
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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

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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)

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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python-dateutil

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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: SuperLU

Files: scipy/sparse/linalg/dsolve/SuperLU/*

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Name: ARPACK

Files: scipy/sparse/linalg/eigen/arpack/ARPACK/*

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Name: Qhull

Files: scipy/spatial/qhull/*

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Name: Cephes

Files: scipy/special/cephes/*

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Cephes Math Library Release 2.8: June, 2000

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Name: Faddeeva

Files: scipy/special/Faddeeva.*

License: MIT

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Name: qd

Files: scipy/special/cephes/dd_*.[ch]

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Name: pypocketfft

Files: scipy/fft/_pocketfft/[pocketfft.h, pypocketfft.cxx]

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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.

License:

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Name: HiGHS

Files: scipy/optimize/_highs/*

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Name: Boost

Files: scipy/_lib/boost_math/*

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Name: Biasedurn

Files: scipy/stats/biasedurn/*

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Name: UNU.RAN

Files: scipy/_lib/unuran/*

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Name: NumPy

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

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For details, see header inside scipy/stats/_rcont/logfactorial.h

and scipy/stats/_rcont/logfactorial.c

==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 <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,

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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/INSTALL

unuran-1.8.1/Makefile.am

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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

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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.pdf

unuran-1.8.1/doc/figures/inversion.png

unuran-1.8.1/doc/figures/inversion.txt

unuran-1.8.1/doc/figures/rejection_from_constant_hat.eps

unuran-1.8.1/doc/figures/rejection_from_constant_hat.pdf

unuran-1.8.1/doc/figures/rejection_from_constant_hat.png

unuran-1.8.1/doc/figures/rejection_from_constant_hat.txt

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unuran-1.8.1/doc/figures/rou-cauchy.png

unuran-1.8.1/doc/figures/rou-cauchy.txt

unuran-1.8.1/doc/figures/texpict2img.pl

unuran-1.8.1/doc/src/Makefile.am

unuran-1.8.1/doc/src/Makefile.in

unuran-1.8.1/doc/src/README

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unuran-1.8.1/doc/src/index.dh

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unuran-1.8.1/doc/src/intro.dh

unuran-1.8.1/doc/src/make_texi.pl

unuran-1.8.1/doc/src/methods.dh

unuran-1.8.1/doc/src/methods_cemp.texi

unuran-1.8.1/doc/src/methods_cont.texi

unuran-1.8.1/doc/src/methods_cvec.texi

unuran-1.8.1/doc/src/methods_cvemp.texi

unuran-1.8.1/doc/src/methods_discr.texi

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unuran-1.8.1/doc/src/methods_mcmc.texi

unuran-1.8.1/doc/src/misc.dh

unuran-1.8.1/doc/src/ref_example0.texi

unuran-1.8.1/doc/src/ref_example0_str.texi

unuran-1.8.1/doc/src/ref_example1.texi

unuran-1.8.1/doc/src/ref_example1_str.texi

unuran-1.8.1/doc/src/ref_example2.texi

unuran-1.8.1/doc/src/ref_example2_str.texi

unuran-1.8.1/doc/src/ref_example3.texi

unuran-1.8.1/doc/src/ref_example3_str.texi

unuran-1.8.1/doc/src/ref_example_FuncStr.texi

unuran-1.8.1/doc/src/ref_example_anti.texi

unuran-1.8.1/doc/src/ref_example_anti_str.texi

unuran-1.8.1/doc/src/ref_example_cext.texi

unuran-1.8.1/doc/src/ref_example_cont.texi

unuran-1.8.1/doc/src/ref_example_cont_str.texi

unuran-1.8.1/doc/src/ref_example_dext.texi

unuran-1.8.1/doc/src/ref_example_discr.texi

unuran-1.8.1/doc/src/ref_example_discr_str.texi

unuran-1.8.1/doc/src/ref_example_emp.texi

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unuran-1.8.1/doc/src/ref_example_win32_1.texi

unuran-1.8.1/doc/src/ref_example_win32_2.texi

unuran-1.8.1/doc/src/references.dh

unuran-1.8.1/doc/src/stddist.dh

unuran-1.8.1/doc/src/texinfo.tex

unuran-1.8.1/doc/src/top.dh

unuran-1.8.1/doc/src/unuran_src.texi

unuran-1.8.1/doc/stamp-1

unuran-1.8.1/doc/stamp-vti

unuran-1.8.1/doc/unuran.html

unuran-1.8.1/doc/unuran.info

unuran-1.8.1/doc/unuran.pdf

unuran-1.8.1/doc/unuran.texi

unuran-1.8.1/doc/unuran.txt

unuran-1.8.1/doc/unuran_win32.html

unuran-1.8.1/doc/unuran_win32.info

unuran-1.8.1/doc/unuran_win32.pdf

unuran-1.8.1/doc/unuran_win32.texi

unuran-1.8.1/doc/unuran_win32_libname.texi

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

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unuran-1.8.1/examples/example2_str.c

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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

unuran-1.8.1/examples/example_dext.c

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

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unuran-1.8.1/scripts/run_valgrind.sh

unuran-1.8.1/scripts/win32/Makefile.win32

unuran-1.8.1/scripts/win32/build.sh

unuran-1.8.1/scripts/win32/example1.c

unuran-1.8.1/scripts/win32/example2.c

unuran-1.8.1/scripts/win32/make_dll_def.pl

unuran-1.8.1/src/Makefile.am

unuran-1.8.1/src/Makefile.in

unuran-1.8.1/src/README

unuran-1.8.1/src/distr/Makefile.am

unuran-1.8.1/src/distr/Makefile.in

unuran-1.8.1/src/distributions/Makefile.am

unuran-1.8.1/src/distributions/Makefile.in

unuran-1.8.1/src/distributions/README

unuran-1.8.1/src/methods/Makefile.am

unuran-1.8.1/src/methods/Makefile.in

unuran-1.8.1/src/parser/Makefile.am

unuran-1.8.1/src/parser/Makefile.in

unuran-1.8.1/src/parser/functparser_doc.dh

unuran-1.8.1/src/parser/make_stringparser.pl

unuran-1.8.1/src/parser/stringparser_doc.dh

unuran-1.8.1/src/specfunct/Makefile.am

unuran-1.8.1/src/specfunct/Makefile.in

unuran-1.8.1/src/tests/Makefile.am

unuran-1.8.1/src/tests/Makefile.in

unuran-1.8.1/src/uniform/Makefile.am

unuran-1.8.1/src/uniform/Makefile.in

unuran-1.8.1/src/uniform/fish.c

unuran-1.8.1/src/uniform/mrg31k3p.c

unuran-1.8.1/src/uniform/mstd.c

unuran-1.8.1/src/uniform/unuran_urng_gsl.h

unuran-1.8.1/src/uniform/unuran_urng_prng.h

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unuran-1.8.1/src/uniform/urng_gsl.c

unuran-1.8.1/src/uniform/urng_gsl.h

unuran-1.8.1/src/uniform/urng_gslqrng.c

unuran-1.8.1/src/uniform/urng_gslqrng.h

unuran-1.8.1/src/uniform/urng_prng.c

unuran-1.8.1/src/uniform/urng_prng.h

unuran-1.8.1/src/uniform/urng_randomshift.c

unuran-1.8.1/src/uniform/urng_randomshift.h

unuran-1.8.1/src/uniform/urng_rngstreams.c

unuran-1.8.1/src/uniform/urng_rngstreams.h

unuran-1.8.1/src/unuran.h.in

unuran-1.8.1/src/urng/Makefile.am

unuran-1.8.1/src/urng/Makefile.in

unuran-1.8.1/src/utils/Makefile.am

unuran-1.8.1/src/utils/Makefile.in

unuran-1.8.1/tests/Makefile.am

unuran-1.8.1/tests/Makefile.in

unuran-1.8.1/tests/README.conf

unuran-1.8.1/tests/make_test_files.pl

unuran-1.8.1/tests/t_arou.c

unuran-1.8.1/tests/t_arou.conf

unuran-1.8.1/tests/t_ars.c

unuran-1.8.1/tests/t_ars.conf

unuran-1.8.1/tests/t_auto.c

unuran-1.8.1/tests/t_auto.conf

unuran-1.8.1/tests/t_cext.c

unuran-1.8.1/tests/t_cext.conf

unuran-1.8.1/tests/t_cstd.c

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unuran-1.8.1/tests/t_deprecated_tdrgw.c

unuran-1.8.1/tests/t_deprecated_vmt.c

unuran-1.8.1/tests/t_deprecated_vmt.conf

unuran-1.8.1/tests/t_dext.c

unuran-1.8.1/tests/t_dext.conf

unuran-1.8.1/tests/t_dgt.c

unuran-1.8.1/tests/t_dgt.conf

unuran-1.8.1/tests/t_distr.c

unuran-1.8.1/tests/t_distr.conf

unuran-1.8.1/tests/t_distr_cemp.c

unuran-1.8.1/tests/t_distr_cemp.conf

unuran-1.8.1/tests/t_distr_condi.c

unuran-1.8.1/tests/t_distr_condi.conf

unuran-1.8.1/tests/t_distr_cont.c

unuran-1.8.1/tests/t_distr_cont.conf

unuran-1.8.1/tests/t_distr_corder.c

unuran-1.8.1/tests/t_distr_corder.conf

unuran-1.8.1/tests/t_distr_cvec.c

unuran-1.8.1/tests/t_distr_cvec.conf

unuran-1.8.1/tests/t_distr_cvemp.c

unuran-1.8.1/tests/t_distr_cvemp.conf

unuran-1.8.1/tests/t_distr_cxtrans.c

unuran-1.8.1/tests/t_distr_cxtrans.conf

unuran-1.8.1/tests/t_distr_discr.c

unuran-1.8.1/tests/t_distr_discr.conf

unuran-1.8.1/tests/t_distr_matr.c

unuran-1.8.1/tests/t_distr_matr.conf

unuran-1.8.1/tests/t_dsrou.c

unuran-1.8.1/tests/t_dsrou.conf

unuran-1.8.1/tests/t_dss.c

unuran-1.8.1/tests/t_dss.conf

unuran-1.8.1/tests/t_dstd.c

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unuran-1.8.1/tests/t_empk.c

unuran-1.8.1/tests/t_empk.conf

unuran-1.8.1/tests/t_empl.c

unuran-1.8.1/tests/t_empl.conf

unuran-1.8.1/tests/t_gibbs.c

unuran-1.8.1/tests/t_gibbs.conf

unuran-1.8.1/tests/t_hinv.c

unuran-1.8.1/tests/t_hinv.conf

unuran-1.8.1/tests/t_hist.c

unuran-1.8.1/tests/t_hist.conf

unuran-1.8.1/tests/t_hitro.c

unuran-1.8.1/tests/t_hrb.c

unuran-1.8.1/tests/t_hrb.conf

unuran-1.8.1/tests/t_hrd.c

unuran-1.8.1/tests/t_hrd.conf

unuran-1.8.1/tests/t_hri.c

unuran-1.8.1/tests/t_hri.conf

unuran-1.8.1/tests/t_info.c

unuran-1.8.1/tests/t_info.conf

unuran-1.8.1/tests/t_itdr.c

unuran-1.8.1/tests/t_itdr.conf

unuran-1.8.1/tests/t_mcorr.c

unuran-1.8.1/tests/t_mcorr.conf

unuran-1.8.1/tests/t_mixt.c

unuran-1.8.1/tests/t_mvstd.c

unuran-1.8.1/tests/t_mvstd.conf

unuran-1.8.1/tests/t_mvtdr.c

unuran-1.8.1/tests/t_ninv.c

unuran-1.8.1/tests/t_ninv.conf

unuran-1.8.1/tests/t_norta.c

unuran-1.8.1/tests/t_norta.conf

unuran-1.8.1/tests/t_nrou.c

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unuran-1.8.1/tests/t_pinv

unuran-1.8.1/tests/t_pinv.c

unuran-1.8.1/tests/t_srou.c

unuran-1.8.1/tests/t_srou.conf

unuran-1.8.1/tests/t_ssr.c

unuran-1.8.1/tests/t_ssr.conf

unuran-1.8.1/tests/t_stringparser.c

unuran-1.8.1/tests/t_stringparser.conf

unuran-1.8.1/tests/t_tabl.c

unuran-1.8.1/tests/t_tabl.conf

unuran-1.8.1/tests/t_tdr.c

unuran-1.8.1/tests/t_tdr.conf

unuran-1.8.1/tests/t_tdr_gw.c

unuran-1.8.1/tests/t_tdr_gw.conf

unuran-1.8.1/tests/t_tdr_ia.c

unuran-1.8.1/tests/t_tdr_ia.conf

unuran-1.8.1/tests/t_tdr_ps.c

unuran-1.8.1/tests/t_tdr_ps.conf

unuran-1.8.1/tests/t_unif.c

unuran-1.8.1/tests/t_unif.conf

unuran-1.8.1/tests/t_unur_error.c

unuran-1.8.1/tests/t_unur_error.conf

unuran-1.8.1/tests/t_unur_tests.c

unuran-1.8.1/tests/t_unur_tests.conf

unuran-1.8.1/tests/t_urng.c

unuran-1.8.1/tests/t_urng.conf

unuran-1.8.1/tests/t_utdr.c

unuran-1.8.1/tests/t_utdr.conf

unuran-1.8.1/tests/t_util_matrix.c

unuran-1.8.1/tests/t_util_matrix.conf

unuran-1.8.1/tests/t_vempk.c

unuran-1.8.1/tests/t_vempk.conf

unuran-1.8.1/tests/t_vnrou.c

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unuran-1.8.1/tests/t_x_gen.c

unuran-1.8.1/tests/t_x_gen.conf

unuran-1.8.1/tests/test_StdDistr.c

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

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

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unuran-1.8.1/tests/testdistributions/vc_w_marginals.c

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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_tdrgw.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/specfunct/cephes_source.h

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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

*

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```
* 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
```


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* 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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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
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* C. Zhu, R. H. Byrd and J. Nocedal. L-BFGS-B: Algorithm 778: L-BFGS-B,
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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: Qhull

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C.B. Barber
Arlington, MA

and

The National Science and Technology Research Center for
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email: qhull@qhull.org

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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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fiona 1.9.4.post1

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

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

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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:

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It contains the certificates in PEM format and therefore

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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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ogr/ogrsf_frmts/dxf/intronurbs.cpp

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alg/thinplatespline.cpp

IEEE754 log() code derived from:

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

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

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ogr/ogrsf_frmts/flatgeobuf

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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dragon4

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Name: SPLITMIX64

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

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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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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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Components

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Files: .libs/libopenb.so

Description: bundled in OpenBLAS

Availability: https://github.com/xianyi/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

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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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x86-simd-sort

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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 OF DEPENDENCY 2

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.

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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)
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
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****

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