Oracle® FCCM Automated Scenario Calibration Cloud Service

Licensing Information User Manual

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Oracle FCCM Automated Scenario Calibration Cloud Service Licensing Information User Manual, Release 25.03.01

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Preface

This guide provides licensing information for the Oracle Financial Services Crime and Compliance Management Automated Scenario Calibration Cloud Service.

Audience

This document is intended for users of the Oracle FCCM Automated Scenario Calibration Cloud Service.

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1

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2

Oracle Financial Services Crime and Compliance Management Automated Scenario Calibration Cloud Service

The following table lists the Third Party Software Tools used in the application.

Table 2-1 Third Party Software Tools

Product	Licensing Description
Oracle Financial Services Crime and Compliance Management Automated Scenario Calibration Cloud Service includes the following product: • Oracle Financial Services Crime and Compliance Management Automated Scenario Calibration Cloud Service	Third party software tools used in the application: • requests • cython • xgboost • python-oracledb • seaborn • scipy • Pandas • NumPy • statsmodels • py4j • pyod • scikit-learn • scikit-optimize • PDPbox • pyjnius • shap • SQLAlchemy • editdistance • Minisom • imbalanced-learn • matplotlib-venn • matplotlib

3
Third-party Notices

This topic describes about third-party notices used in the application.

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Table 3-1 (Cont.) Open Source Software

Provider	Component(s)	Functionality	Licensing Information
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	Minisom		
	imbalanced-learn		
	matplotlib-venn		
Python Software Foundation	matplotlib	Data Visualization and Plotting Library	Licensed under the Python Software Foundation License (https://opensource.org/license/python-2-0/). For a copy of the license, see Python Software Foundation.

4
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Copyright: Kenneth Reitz

=== Source URL: https://github.com/psf/requests/tree/v2.32.3

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

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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:
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It contains the certificates in PEM format and therefore
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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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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

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

From: Agner Fog <agner@agner.org>

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

Subject: Re: Add BiasedUrn to SciPy?

To: Matt Haberland <mhaberla@calpoly.edu>

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

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

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

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

Best regards,

Agner Fog

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

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

Thank you for considering it!

Matt

--

Matt Haberland

Assistant Professor

BioResource and Agricultural Engineering

08A-3K, Cal Poly

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---------- Separator ----------

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Name: OpenBLAS

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Description: bundled as a dynamically linked library

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Files: scipy/.dylibs/libopenblas*.so

Description: bundled in OpenBLAS

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

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Files: scipy/.dylibs/libgfortran*, scipy/.dylibs/libgcc*
Description: dynamically linked to files compiled with gcc
Availability: https://gcc.gnu.org/git/?p=gcc.git;a=tree;f=libgfortran
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Version 3.1, 31 March 2009

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---------- Separator ----------

./tools/wheels/LICENSE_win32.txt

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4.1.4 python-oracledb

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pycparser -- A C parser in Python

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

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

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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

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as a successor of a language called ABC. Guido remains Python's

principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for

National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)

in Reston, Virginia where he released several versions of the

software.

In May 2000, Guido and the Python core development team moved to

BeOpen.com to form the BeOpen PythonLabs team. In October of the same

year, the PythonLabs team moved to Digital Creations (now Zope

Corporation, see http://www.zope.com). In 2001, the Python Software

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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

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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

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https://github.com/client9/stringencoders

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4.2.2 scipy

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

Name: scipy

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

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

numpy (BSD License) [https://github.com/numpy/numpy]

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HiGHS, bundled dependency of scipy, (MIT) [scipy/optimize/_highs/*]

ID, bundled dependency of scipy, (3-clause BSD) [scipy/linalg/src/id_dist/*]

Julia, bundled dependency of numpy, (MIT) [/numpy/blob/numpy/random/src/distributions/*]

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MT19937, bundled dependency of numpy, (MIT) [/numpy/blob/numpy/random/src/mt19937/*]

Meson, bundled dependency of numpy, (Apache 2.0) [vendored-meson/meson/*]

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compile_test/tools_series_inc_test.cpp:// Copyright John Maddock 2006.

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complex_test.cpp:// (C) Copyright John Maddock 2005.

digamma_data.ipp:// (C) Copyright John Maddock 2006-7.

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erf_data.ipp:// (C) Copyright John Maddock 2006-7.

erf_inv_data.ipp:// (C) Copyright John Maddock 2006-7.

erf_large_data.ipp:// (C) Copyright John Maddock 2006-7.

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expint_1_data.ipp:// Copyright John Maddock 2008.

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functor.hpp:// (C) Copyright John Maddock 2007.

gamma_inv_big_data.ipp:// (C) Copyright John Maddock 2006-7.

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gamma_inv_small_data.ipp:// (C) Copyright John Maddock 2006-7.

handle_test_result.hpp:// (C) Copyright John Maddock 2006-7.

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hypergeometric_dist_data2.ipp:// Copyright John Maddock 2008

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mpreal_concept_check.cpp:// Copyright John Maddock 2007-8.

multiprc_concept_check_1.cpp:// Copyright John Maddock 2013.

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special_functions_test.cpp:// (C) Copyright Hubert Holin 2003.

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test_beta.cpp:// Copyright Paul A. Bristow 2007, 2009

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test_binomial_coeff.cpp:// (C) Copyright John Maddock 2006.

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test_erf_hooks.hpp:// (C) Copyright John Maddock 2006.

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test_rational_instances/test_rational.hpp:// (C) Copyright John Maddock 2006-7.

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Availability: https://gcc.gnu.org/git/?p=gcc.git;a=tree;f=libquadmath

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Written by Francois-Xavier Coudert <fxcoudert@gcc.gnu.org>

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Name: uarray

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Name: Biasedurn

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

From: Agner Fog <agner@agner.org>

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

Subject: Re: Add BiasedUrn to SciPy?

To: Matt Haberland <mhaberla@calpoly.edu>

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

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

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

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

Best regards,

Agner Fog

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

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

Thank you for considering it!

Matt

--

Matt Haberland

Assistant Professor

BioResource and Agricultural Engineering

08A-3K, Cal Poly

Name: UNU.RAN

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

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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

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unuran-1.8.1/autoconf/ltmain.sh

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unuran-1.8.1/autoconf/missing

unuran-1.8.1/autogen.sh

unuran-1.8.1/configure

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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

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

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: libquadmath

Files: numpy.libs/libquadmath*.so

Description: dynamically linked to files compiled with gcc

Availability: https://gcc.gnu.org/git/?p=gcc.git;a=tree;f=libquadmath

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GCC Quad-Precision Math Library

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Written by Francois-Xavier Coudert <fxcoudert@gcc.gnu.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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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: dragon4

Files: numpy/_core/src/multiarray/dragon4.c

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/*

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*

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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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Files: numpy/.dylibs/libscipy_openblas*.so

Description: bundled as a dynamically linked library

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

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Files: numpy/.dylibs/libquadmath*.so

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python-dateutil

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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

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packages/45/b2/6c7545bb7a38754d63048c7696804a0d947328125d81bf12beaa692c3ae3/
numpy-1.19.5-cp36-cp36m-manylinux1_x86_64.whl

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4.2.5 statsmodels

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Name: L-BFGS-B

Files: scipy/optimize/lbfgsb/*

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From the website for the L-BFGS-B code (from at

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"""

L-BFGS-B is a limited-memory quasi-Newton code for bound-constrained

optimization, i.e. for problems where the only constraints are of the

form l<= x <= u.

"""

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

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References
* 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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* J.L. Morales and J. Nocedal. L-BFGS-B: Remark on Algorithm 778: L-BFGS-B,
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"""

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==========

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Example usage
==========

An example of the usage is given at the bottom of the lbfgsb.py file.
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Name: LAPJVsp

Files: scipy/sparse/csgraph/_matching.pyx

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C.B. Barber
Arlington, MA

and

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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,

Coded by Andrea Gavana

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

Name: pybind11

Files: no source files are included, however pybind11 binary artifacts are

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Description: bundled in OpenBLAS

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4.2.6 py4j

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

The DAG roadmap rendering code in docs/dagmap/ uses Javascript from this
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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Release Derived Year Owner GPL-
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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
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Unicode implementation based on original code by Fredrik Lundh,
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dragon4

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

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

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

Constants used in the rk_double implementation by Isaku Wada.

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Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised by
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https://gist.github.com/imneme/f1f7821f07cf76504a97f6537c818083

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Files: scipy/io/_fast_matrix_market/src/pystreambuf.h

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Files: scipy/optimize/lbfgsb/*

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Name: LAPJVsp

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Files: scipy/spatial/qhull/*

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Name: uarray
Files: scipy/_lib/uarray/*

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Name: ampgo

Files: benchmarks/benchmarks/go_benchmark_functions/*.py

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

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

Name: pybind11

Files: no source files are included, however pybind11 binary artifacts are

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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

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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

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notice like this when it starts in an interactive mode:

<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License. Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

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the library. If this is what you want to do, use the GNU Lesser General
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<http://www.gnu.org/philosophy/why-not-lgpl.html>.

Name: libquadmath
Files: scipy.libs/libquadmath*.so
Description: dynamically linked to files compiled with gcc
Availability: https://gcc.gnu.org/git/?p=gcc.git;a=tree;f=libquadmath
License: LGPL-2.1-or-later

GCC Quad-Precision Math Library
Copyright (C) 2010-2019 Free Software Foundation, Inc.
Written by Francois-Xavier Coudert <fxcoudert@gcc.gnu.org>

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---------- Separator ----------

./tools/wheels/LICENSE_osx.txt

This binary distribution of SciPy also bundles the following software:

Name: OpenBLAS

Files: scipy/.dylibs/libopenblas*.so

Description: bundled as a dynamically linked library

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

License: BSD-3-Clause-Attribution

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Description: bundled in OpenBLAS

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

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Name: GCC runtime library
Files: scipy/.dylibs/libgfortran*, scipy/.dylibs/libgcc*
Description: dynamically linked to files compiled with gcc
Availability: https://gcc.gnu.org/git/?p=gcc.git;a=tree;f=libgfortran
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Version 3.1, 31 March 2009

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Description: dynamically linked to files compiled with gcc
Availability: https://gcc.gnu.org/git/?p=gcc.git;a=tree;f=libquadmath
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Description: bundled in OpenBLAS

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5.1 joblib

5.2 numpy

5.3 scipy

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Name: GCC runtime library

Files: extra-dll*.dll

Description: statically linked, in DLL files compiled with gfortran only

Availability: https://gcc.gnu.org/viewcvs/gcc/

License: GPLv3 + runtime exception

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Name: Microsoft Visual C++ Runtime Files

Files: extra-dll\msvcp140.dll

License: MSVC

https://www.visualstudio.com/license-terms/distributable-code-microsoft-visual-studio-2015-rc-microsoft-visual-studio-2015-sdk-rc-includes-utilities-buildserver-files/#visual-c-runtime

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Assembly Cache (GAC):

VC\atlmfc\lib\mfcmifc80.dll
VC\atlmfc\lib\amd64\mfcmifc80.dll

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Name: Microsoft Visual C++ Runtime Files

Files: extra-dll\msvc*90.dll, extra-dll\Microsoft.VC90.CRT.manifest

License: MSVC

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atl90.dll
Microsoft.VC90.ATL.manifest
\VC\redist\ia64\Microsoft.VC90.ATL\
atl90.dll
Microsoft.VC90.ATL.manifest
\VC\redist\amd64\Microsoft.VC90.ATL\
atl90.dll
Microsoft.VC90.ATL.manifest
\VC\redist\x86\Microsoft.VC90.CRT\
msvcm90.dll
msvcp90.dll
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Version 3.1, 31 March 2009

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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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Computer Modern Fonts in PostScript Type 1 and TrueType font formats.

2) BaKoMa-AMS (1.2/19-Jan-95)
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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
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4.3.2 pyjnius

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4.3.3 shap

==========

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numba

numpy

packaging

pandas

scikit-learn

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[casperdcl](https://github.com/casperdcl).

* files: tqdm/_tqdm.py

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Files: scipy/io/_fast_matrix_market/src/pystreambuf.h

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Name: L-BFGS-B

Files: scipy/optimize/lbfgsb/*

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From the website for the L-BFGS-B code (from at

http://www.ece.northwestern.edu/~nocedal/lbfgsb.html):

"""

L-BFGS-B is a limited-memory quasi-Newton code for bound-constrained

optimization, i.e. for problems where the only constraints are of the

form l<= x <= u.

"""

This is a Python wrapper (using F2PY) written by David M. Cooke

<cookedm@physics.mcmaster.ca> and released as version 0.9 on April 9, 2004.

The wrapper was slightly modified by Joonas Paalasmaa for the 3.0 version

in March 2012.

License of L-BFGS-B (Fortran code)

==================================

The version included here (in lbfgsb.f) is 3.0 (released April 25, 2011). It was

written by Ciyou Zhu, Richard Byrd, and Jorge Nocedal <nocedal@ece.nwu.edu>. It

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

The Python wrapper
==================

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the wrapper around the Fortran code.

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Example usage
=============

An example of the usage is given at the bottom of the lbfgsb.py file.
Run it with 'python lbfgsb.py'.

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Name: LAPJVsp

Files: scipy/sparse/csgraph/_matching.pyx

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Name: Tempita

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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

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4.3.5 editdistance

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4.3.7 imbalanced-learn

========== Package: imbalanced-learn ==========

Name: imbalanced-learn

Source code URL: https://github.com/scikit-learn-contrib/imbalanced-learn

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

joblib (BSD 3-Clause "New" or "Revised" License) [https://github.com/joblib/joblib]

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Julia, bundled dependency of numpy, (MIT) [/numpy/blob/numpy/random/src/distributions/*]

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

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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.

Copyright 2014 Melissa O'Neill oneill@pcg-random.org

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Name: MT19937

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

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

Constants used in the rk_double implementation by Isaku Wada.

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Name: Julia

License: MIT

The ziggurat methods were derived from Julia.

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https://github.com/JuliaLang/julia/contributors

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Name: Random

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Components

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Name: svml

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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>

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

Name: UNU.RAN

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unuran-1.8.1/doc/src/top.dh

unuran-1.8.1/doc/src/unuran_src.texi

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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

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unuran-1.8.1/doc/unuran_win32_libname.texi

unuran-1.8.1/doc/version.texi

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unuran-1.8.1/examples/Makefile.am

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unuran-1.8.1/examples/example0.c

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unuran-1.8.1/examples/example3.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

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unuran-1.8.1/tests/testdistributions/testdistributions.h

unuran-1.8.1/tests/testdistributions/vc_cauchy_RoU_ball.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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The ziggurat methods were derived from Julia.

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Original algorithm for the implementation of rk_interval function from

Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised by Magnus Jonsson.

Constants used in the rk_double implementation by Isaku Wada.

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PCG Random Number Generation for C.

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

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

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kiwisolver

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python-dateutil

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

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agg24-svn

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ttutil.cpp

/*

* Modified for use within matplotlib

* 5 July 2007

* Michael Droettboom

*/

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

/* (c) Frank Siegert 1996 */

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/*

* Modified for use within matplotlib

* 5 July 2007

* Michael Droettboom

*/

/*

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**

** TrueType font support. These functions allow PPR to generate

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**

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*/

++++++++++++++

pprdrv_tt2.cpp

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**

** The functions in this file do most of the work to convert a

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**

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**

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*/

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_tkmini.h

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

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

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

Constants used in the rk_double implementation by Isaku Wada.

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