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 25.05.01

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

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Table 2-1 Third Party Software Tools

Product	Licensing Description
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3
Third-party Notices

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MIT	matplotlib-venn	Machine Learning, Data Processing, and Software Utilities	Licensed under the MIT License. For a copy of the license, see The MIT License .

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4
Third-party Licenses

This topic describes information about the third-party licenses.

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Files: numpy/_core/include/numpy/libdivide/*

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

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Files: scipy/spatial/qhull/*

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Files: scipy/special/cephes/*

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Cephes Math Library Release 2.8: June, 2000

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Name: Faddeeva

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Name: ampgo
Files: benchmarks/benchmarks/go_benchmark_functions/*.py
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Files: scipy/optimize/_highs/*

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Files: scipy/stats/biasedurn/*

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Name: UNU.RAN

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Name: NumPy

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

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Name: array-api-compat

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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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Description: bundled in OpenBLAS

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Files: scipy.libs/libgfortran*.so
Description: dynamically linked to files compiled with gcc
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Description: dynamically linked to files compiled with gcc
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<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

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Name: libquadmath
Files: scipy/.dylibs/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_win32.txt

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Name: OpenBLAS

Files: scipy.libs\libopenblas*.dll

Description: bundled as a dynamically linked library

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

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Files: scipy.libs\libopenblas*.dll

Description: bundled in OpenBLAS

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

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Version 3.1, 31 March 2009

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pycparser -- A C parser in Python

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4.2.1 seaborn

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

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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

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

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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

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4.2.2 scipy

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

Name: scipy

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

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compile_test/sf_ellint_3_incl_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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e_float_concept_check.cpp:// Copyright John Maddock 2011.

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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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jacobi_near_1.ipp:// Copyright John Maddock 2012.

laguerre2.ipp:// (C) Copyright John Maddock 2006-7.

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

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

log1p_expm1_data.ipp:// (C) Copyright John Maddock 2006-7.

log1p_expm1_test.cpp:// Copyright John Maddock 2005.

log1p_expm1_test.cpp:// Copyright Paul A. Bristow 2010

log1p_expm1_test.hpp:// Copyright John Maddock 2005.

log1p_expm1_test.hpp:// Copyright Paul A. Bristow 2010

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

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

multiprc_concept_check_1.cpp:// Copyright John Maddock 2013.

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ncbeta.ipp:// Copyright John Maddock 2008.

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nct.ipp:// Copyright John Maddock 2008.

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

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owens_t.ipp:// Copyright John Maddock 2012.

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special_functions_test.cpp: BOOST_TEST_MESSAGE("(C) Copyright Hubert Holin 2003-2005.");

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table_type.hpp:// Copyright John Maddock 2012.

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

test_bessel_j.cpp:// (C) Copyright John Maddock 2007.

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test_bessel_k.cpp:// Copyright Paul A. Bristow 2007

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

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

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test_extreme_value.cpp:// Copyright John Maddock 2006.

test_factorials.cpp:// Copyright John Maddock 2006.

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test_instances/Jamfile.v2:# Copyright ohn Maddock 2012

test_instances/real_concept_test_instances_5.cpp:// Copyright John Maddock 2011.

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test_instances/pch.hpp:// Copyright John Maddock 2012.

test_instances/ldouble_test_instances_2.cpp:// Copyright John Maddock 2011.

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

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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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unuran-1.8.1/INSTALL

unuran-1.8.1/Makefile.am

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unuran-1.8.1/NEWS

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unuran-1.8.1/acinclude.m4

unuran-1.8.1/aclocal.m4

unuran-1.8.1/autoconf/config.guess

unuran-1.8.1/autoconf/config.sub

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unuran-1.8.1/autoconf/ltmain.sh

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unuran-1.8.1/autogen.sh

unuran-1.8.1/configure

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unuran-1.8.1/tests/t_dstd.c

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unuran-1.8.1/tests/t_empk.c

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unuran-1.8.1/tests/t_gibbs.c

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unuran-1.8.1/tests/t_pinv

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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

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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*

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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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Name: OpenBLAS

Files: numpy/.dylibs/libscipy_openblas*.so

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Files: numpy/.dylibs/libquadmath*.so

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python-dateutil

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

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Files: numpy/.dylibs/libopenblas*.so

Description: bundled in OpenBLAS

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

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Name: ID

Files: scipy/linalg/src/id_dist/*

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

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

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

The Python code and wrapper are copyrighted 2004 by David M. Cooke
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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'.

License for the Python wrapper
==========

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Name: LAPJVsp

Files: scipy/sparse/csgraph/_matching.pyx

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C.B. Barber
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Name: ampgo

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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

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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
package to draw graphs in HTML.

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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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Files: extra-dll\libopenb*.dll

Description: bundled in OpenBLAS

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

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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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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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4.2.8 scikit-learn

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

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

./scipy/stats/biasedurn/license.txt

---------- 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

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

./tools/wheels/LICENSE_linux.txt

This binary distribution of SciPy also bundles the following software:

Name: OpenBLAS

Files: scipy.libs/libopenblas*.so

Description: bundled as a dynamically linked library

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Name: LAPACK

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Description: bundled in OpenBLAS

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

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Files: scipy.libs/libgfortran*.so
Description: dynamically linked to files compiled with gcc
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Description: dynamically linked to files compiled with gcc
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Chris Colbert began the Kiwi project in December 2013 in an effort to

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Name python-dateutil

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********NUMPY dependencies START********

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This binary distribution of NumPy also bundles the following software:

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Name OpenBLAS

Files: extra-dll\libopenb*.dll

Description: bundled as a dynamically linked library

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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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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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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

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atl90.dll
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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
msvcr90.dll
Microsoft.VC90.CRT.manifest
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Version 3.1, 31 March 2009

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

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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
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may be found in the (unused) file Gist/host.c.

--------- --

********MATPLOTLIB dependencies END********

4.3.2 pyjnius

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4.3.3 shap

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shap 0.46.0 has dependencies on following libraries:

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numba

numpy

packaging

pandas

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---

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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: numpy.core.ma

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

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[PR #96]: https://github.com/tqdm/tqdm/pull/96

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Name: fast_matrix_market

Files: scipy/io/_fast_matrix_market/*

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Name: pystreambuf

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

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Name: fast_float

Files: scipy/io/_fast_matrix_market/fast_matrix_market/dependencies/fast_float/*

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Name: ryu

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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

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'.

License for the Python wrapper
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Name: LAPJVsp

Files: scipy/sparse/csgraph/_matching.pyx

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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

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Name: HiGHS

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Name: UNU.RAN

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Name: array-api-compat

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Name: Tempita

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Name: mdspan

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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

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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
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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

License: MIT License

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

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

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

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Biasedurn, bundled dependency of scipy, (3-Clause BSD) [scipy/stats/biasedurn/*]

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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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Name: PCG64

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PCG Random Number Generation for C.

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

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

Constants used in the rk_double implementation by Isaku Wada.

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The ziggurat methods were derived from Julia.

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compile_test/sf_ellint_1_incl_test.cpp:// Copyright John Maddock 2006.

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

compile_test/main.cpp:// Copyright John Maddock 2009.

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

compile_test/sf_airy_incl_test.cpp:// Copyright John Maddock 2012.

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

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

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

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

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

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

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

e_float_concept_check.cpp:// Copyright John Maddock 2011.

ellint_e2_data.ipp:// Copyright (c) 2006 John Maddock

ellint_e_data.ipp:// Copyright (c) 2006 John Maddock

ellint_f_data.ipp:// Copyright (c) 2006 John Maddock

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

ellint_pi2_data.ipp:// Copyright (c) 2006 John Maddock

ellint_pi3_data.ipp:// Copyright (c) 2006 John Maddock

ellint_pi3_large_data.ipp:// Copyright (c) 2006 John Maddock

ellint_rc_data.ipp:// Copyright (c) 2006 John Maddock

ellint_rd_data.ipp:// Copyright (c) 2006 John Maddock

ellint_rf_data.ipp:// Copyright (c) 2006 John Maddock

ellint_rj_data.ipp:// Copyright (c) 2006 John Maddock

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.

erf_small_data.ipp:// (C) Copyright John Maddock 2006.

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

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

expint_1_data.ipp:// Copyright John Maddock 2008.

expint_data.ipp:// Copyright John Maddock 2008.

expint_small_data.ipp:// Copyright John Maddock 2008.

expinti_data.ipp:// Copyright John Maddock 2008.

expinti_data_double.ipp:// Copyright John Maddock 2008.

expinti_data_long.ipp:// Copyright John Maddock 2008.

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

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

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

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

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

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

hypergeometric_dist_data2.ipp:// Copyright John Maddock 2008

hypergeometric_test_data.ipp:// Copyright Gautam Sewani 2008

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

ibeta_data.ipp:// (C) Copyright John Maddock 2006.

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

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

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

ibeta_large_data.ipp:// (C) Copyright John Maddock 2006.

ibeta_small_data.ipp:// (C) Copyright John Maddock 2006.

igamma_big_data.ipp:// (C) Copyright John Maddock 2006.

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

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

igamma_med_data.ipp:// (C) Copyright John Maddock 2006.

igamma_small_data.ipp:// (C) Copyright John Maddock 2006.

jacobi_elliptic.ipp:// Copyright John Maddock 2012.

jacobi_elliptic_small.ipp:// Copyright John Maddock 2012.

jacobi_large_phi.ipp:// Copyright John Maddock 2012.

jacobi_near_1.ipp:// Copyright John Maddock 2012.

laguerre2.ipp:// (C) Copyright John Maddock 2006-7.

laguerre3.ipp:// (C) Copyright John Maddock 2006-7.

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

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

log1p_expm1_data.ipp:// (C) Copyright John Maddock 2006-7.

log1p_expm1_test.cpp:// Copyright John Maddock 2005.

log1p_expm1_test.cpp:// Copyright Paul A. Bristow 2010

log1p_expm1_test.hpp:// Copyright John Maddock 2005.

log1p_expm1_test.hpp:// Copyright Paul A. Bristow 2010

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

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

multiprc_concept_check_1.cpp:// Copyright John Maddock 2013.

multiprc_concept_check_2.cpp:// Copyright John Maddock 2013.

multiprc_concept_check_3.cpp:// Copyright John Maddock 2013.

multiprc_concept_check_4.cpp:// Copyright John Maddock 2013.

ncbeta.ipp:// Copyright John Maddock 2008.

ncbeta_big.ipp:// Copyright John Maddock 2008.

nccs.ipp:// Copyright John Maddock 2008.

nccs_big.ipp:// Copyright John Maddock 2008.

nct.ipp:// Copyright John Maddock 2008.

nct_asym.ipp:// Copyright John Maddock 2012.

nct_small_delta.ipp:// Copyright John Maddock 2012.

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

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

ntl_concept_check.cpp:// Copyright Paul A. Bristow 2009, 2011

owens_t.ipp:// Copyright John Maddock 2012.

owens_t_T7.hpp:// Copyright (C) Benjamin Sobotta 2012

owens_t_large_data.ipp:// Copyright John Maddock 2012.

pch.hpp:// Copyright John Maddock 2008.

pch_light.hpp:// Copyright John Maddock 2008.

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

pow_test.cpp:// (C) Copyright Bruno Lalande 2008.

powm1_sqrtp1m1_test.cpp:// (C) Copyright John Maddock 2006.

powm1_sqrtp1m1_test.hpp:// Copyright John Maddock 2006.

s_.ipp:// Copyright (c) 2006 Johan Rade

s_.ipp:// Copyright (c) 2012 Paul A. Bristow

sinc_test.hpp:// (C) Copyright Hubert Holin 2003.

sinhc_test.hpp:// (C) Copyright Hubert Holin 2003.

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

special_functions_test.cpp: BOOST_TEST_MESSAGE("(C) Copyright Hubert Holin 2003-2005.");

sph_bessel_data.ipp:// Copyright (c) 2007 John Maddock

sph_neumann_data.ipp:// Copyright (c) 2007 John Maddock

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

std_real_concept_check.cpp:// Copyright John Maddock 2006.

table_type.hpp:// Copyright John Maddock 2012.

test_airy.cpp:// Copyright John Maddock 2012

test_archive.cpp:// Copyright (c) 2006 Johan Rade

test_archive.cpp:// Copyright (c) 2011 Paul A. Bristow - filename changes for boost-trunk.

test_basic_nonfinite.cpp:// Copyright (c) 2006 Johan Rade

test_basic_nonfinite.cpp:// Copyright (c) 2011 Paul A. Bristow comments

test_basic_nonfinite.cpp:// Copyright (c) 2011 John Maddock

test_bernoulli.cpp:// Copyright John Maddock 2006.

test_bernoulli.cpp:// Copyright Paul A. Bristow 2007, 2012.

test_bessel_airy_zeros.cpp:// Copyright John Maddock 2013

test_bessel_airy_zeros.cpp:// Copyright Christopher Kormanyos 2013.

test_bessel_airy_zeros.cpp:// Copyright Paul A. Bristow 2013.

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

test_bessel_i.cpp:// (C) Copyright John Maddock 2007.

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

test_bessel_j.cpp:// (C) Copyright John Maddock 2007.

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

test_bessel_k.cpp:// Copyright John Maddock 2006, 2007

test_bessel_k.cpp:// Copyright Paul A. Bristow 2007

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

test_bessel_y.cpp:// (C) Copyright John Maddock 2007.

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

test_beta.cpp:// Copyright John Maddock 2006.

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

test_beta.hpp:// Copyright John Maddock 2006.

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

test_beta_dist.cpp:// Copyright John Maddock 2006.

test_beta_dist.cpp:// Copyright Paul A. Bristow 2007, 2009, 2010, 2012.

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

test_binomial.cpp:// Copyright John Maddock 2006.

test_binomial.cpp:// Copyright Paul A. Bristow 2007.

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

test_binomial_coeff.hpp:// Copyright John Maddock 2006.

test_binomial_coeff.hpp:// Copyright Paul A. Bristow 2007, 2009

test_carlson.cpp:// Copyright 2006 John Maddock

test_carlson.cpp:// Copyright Paul A. Bristow 2007.

test_carlson.hpp:// Copyright John Maddock 2006.

test_carlson.hpp:// Copyright Paul A. Bristow 2007, 2009

test_cauchy.cpp:// Copyright John Maddock 2006, 2007.

test_cauchy.cpp:// Copyright Paul A. Bristow 2007

test_cbrt.cpp:// Copyright John Maddock 2006.

test_cbrt.cpp:// Copyright Paul A. Bristow 2010

test_cbrt.hpp:// Copyright John Maddock 2006.

test_cbrt.hpp:// Copyright Paul A. Bristow 2007, 2009

test_chi_squared.cpp:// Copyright Paul A. Bristow 2006.

test_chi_squared.cpp:// Copyright John Maddock 2007.

test_classify.cpp:// Copyright John Maddock 2006.

test_classify.cpp:// Copyright Paul A. Bristow 2007

test_common_factor_gmpxx.cpp:// (C) Copyright John Maddock 2010.

test_constant_generate.cpp:// Copyright John Maddock 2010.

test_constants.cpp:// Copyright Paul Bristow 2007, 2011.

test_constants.cpp:// Copyright John Maddock 2006, 2011.

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

test_digamma.hpp:// Copyright John Maddock 2006.

test_digamma.hpp:// Copyright Paul A. Bristow 2007, 2009

test_dist_overloads.cpp:// Copyright John Maddock 2006.

test_dist_overloads.cpp:// Copyright Paul A. Bristow 2007.

test_ellint_1.cpp:// Copyright Xiaogang Zhang 2006

test_ellint_1.cpp:// Copyright John Maddock 2006, 2007

test_ellint_1.cpp:// Copyright Paul A. Bristow 2007

test_ellint_1.hpp:// Copyright John Maddock 2006.

test_ellint_1.hpp:// Copyright Paul A. Bristow 2007, 2009

test_ellint_2.cpp:// Copyright Xiaogang Zhang 2006

test_ellint_2.cpp:// Copyright John Maddock 2006, 2007

test_ellint_2.cpp:// Copyright Paul A. Bristow 2007

test_ellint_2.hpp:// Copyright John Maddock 2006.

test_ellint_2.hpp:// Copyright Paul A. Bristow 2007, 2009

test_ellint_3.cpp:// Copyright Xiaogang Zhang 2006

test_ellint_3.cpp:// Copyright John Maddock 2006, 2007

test_ellint_3.cpp:// Copyright Paul A. Bristow 2007

test_ellint_3.hpp:// Copyright John Maddock 2006.

test_ellint_3.hpp:// Copyright Paul A. Bristow 2007, 2009

test_erf.cpp:// Copyright John Maddock 2006.

test_erf.cpp:// Copyright Paul A. Bristow 2007

test_erf.hpp:// Copyright John Maddock 2006.

test_erf.hpp:// Copyright Paul A. Bristow 2007, 2009

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

test_error_handling.cpp:// Copyright Paul A. Bristow 2006-7.

test_error_handling.cpp:// Copyright John Maddock 2006-7.

test_expint.cpp:// (C) Copyright John Maddock 2007.

test_expint.hpp:// Copyright John Maddock 2006.

test_expint.hpp:// Copyright Paul A. Bristow 2007, 2009

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

test_exponential_dist.cpp:// Copyright John Maddock 2006.

test_exponential_dist.cpp:// Copyright Paul A. Bristow 2007.

test_extreme_value.cpp:// Copyright John Maddock 2006.

test_factorials.cpp:// Copyright John Maddock 2006.

test_find_location.cpp:// Copyright John Maddock 2007.

test_find_location.cpp:// Copyright Paul A. Bristow 2007.

test_find_scale.cpp:// Copyright John Maddock 2007.

test_find_scale.cpp:// Copyright Paul A. Bristow 2007.

test_fisher_f.cpp:// Copyright Paul A. Bristow 2006.

test_fisher_f.cpp:// Copyright John Maddock 2007.

test_fisher_f.cpp: // Distcalc version 1.2 Copyright 2002 H Lohninger, TU Wein

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

test_gamma.hpp:// Copyright John Maddock 2006.

test_gamma.hpp:// Copyright Paul A. Bristow 2007, 2009

test_gamma_data.ipp:// (C) Copyright John Maddock 2006.

test_gamma_dist.cpp:// Copyright John Maddock 2006.

test_gamma_dist.cpp:// Copyright Paul A. Bristow 2007, 2010.

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

test_geometric.cpp:// Copyright Paul A. Bristow 2010.

test_geometric.cpp:// Copyright John Maddock 2010.

test_hankel.cpp:// Copyright John Maddock 2012

test_hermite.cpp:// Copyright John Maddock 2006, 2007

test_hermite.cpp:// Copyright Paul A. Bristow 2007

test_hermite.hpp:// Copyright John Maddock 2006.

test_hermite.hpp:// Copyright Paul A. Bristow 2007, 2009

test_hypergeometric_dist.cpp:// Copyright John Maddock 2008

test_hypergeometric_dist.cpp:// Copyright Paul A. Bristow

test_hypergeometric_dist.cpp:// Copyright Gautam Sewani

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

test_ibeta.hpp:// Copyright John Maddock 2006.

test_ibeta.hpp:// Copyright Paul A. Bristow 2007, 2009

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

test_ibeta_inv.hpp:// Copyright John Maddock 2006.

test_ibeta_inv.hpp:// Copyright Paul A. Bristow 2007, 2009

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

test_ibeta_inv_ab.hpp:// Copyright John Maddock 2006.

test_ibeta_inv_ab.hpp:// Copyright Paul A. Bristow 2007, 2009

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

test_igamma.hpp:// Copyright John Maddock 2006.

test_igamma.hpp:// Copyright Paul A. Bristow 2007, 2009

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

test_igamma_inv.hpp:// Copyright John Maddock 2006.

test_igamma_inv.hpp:// Copyright Paul A. Bristow 2007, 2009

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

test_igamma_inva.hpp:// Copyright John Maddock 2006.

test_igamma_inva.hpp:// Copyright Paul A. Bristow 2007, 2009

test_instances/double_test_instances_4.cpp:// Copyright John Maddock 2011.

test_instances/ldouble_test_instances_4.cpp:// Copyright John Maddock 2011.

test_instances/float_test_instances_8.cpp:// Copyright John Maddock 2011.

test_instances/double_test_instances_9.cpp:// Copyright John Maddock 2011.

test_instances/Jamfile.v2:# Copyright ohn Maddock 2012

test_instances/real_concept_test_instances_5.cpp:// Copyright John Maddock 2011.

test_instances/ldouble_test_instances_6.cpp:// Copyright John Maddock 2011.

test_instances/real_concept_test_instances_4.cpp:// Copyright John Maddock 2011.

test_instances/double_test_instances_7.cpp:// Copyright John Maddock 2011.

test_instances/real_concept_test_instances_2.cpp:// Copyright John Maddock 2011.

test_instances/double_test_instances_5.cpp:// Copyright John Maddock 2011.

test_instances/ldouble_test_instances_9.cpp:// Copyright John Maddock 2011.

test_instances/real_concept_test_instances_1.cpp:// Copyright John Maddock 2011.

test_instances/float_test_instances_6.cpp:// Copyright John Maddock 2011.

test_instances/real_concept_test_instances_6.cpp:// Copyright John Maddock 2011.

test_instances/ldouble_test_instances_7.cpp:// Copyright John Maddock 2011.

test_instances/real_concept_test_instances_7.cpp:// Copyright John Maddock 2011.

test_instances/float_test_instances_3.cpp:// Copyright John Maddock 2011.

test_instances/double_test_instances_6.cpp:// Copyright John Maddock 2011.

test_instances/real_concept_test_instances_9.cpp:// Copyright John Maddock 2011.

test_instances/double_test_instances_2.cpp:// Copyright John Maddock 2011.

test_instances/pch.hpp:// Copyright John Maddock 2012.

test_instances/ldouble_test_instances_2.cpp:// Copyright John Maddock 2011.

test_instances/long_double_test_instances_1.cpp:// Copyright John Maddock 2011.

test_instances/float_test_instances_7.cpp:// Copyright John Maddock 2011.

test_instances/test_instances.hpp:// Copyright John Maddock 2011.

test_instances/double_test_instances_10.cpp:// Copyright John Maddock 2011.

test_instances/double_test_instances_3.cpp:// Copyright John Maddock 2011.

test_instances/ldouble_test_instances_3.cpp:// Copyright John Maddock 2011.

test_instances/real_concept_test_instances_10.cpp:// Copyright John Maddock 2011.

test_instances/float_test_instances_5.cpp:// Copyright John Maddock 2011.

test_instances/real_concept_test_instances_8.cpp:// Copyright John Maddock 2011.

test_instances/ldouble_test_instances_8.cpp:// Copyright John Maddock 2011.

test_instances/double_test_instances_1.cpp:// Copyright John Maddock 2011.

test_instances/float_test_instances_10.cpp:// Copyright John Maddock 2011.

test_instances/ldouble_test_instances_10.cpp:// Copyright John Maddock 2011.

test_instances/float_test_instances_9.cpp:// Copyright John Maddock 2011.

test_instances/float_test_instances_4.cpp:// Copyright John Maddock 2011.

test_instances/real_concept_test_instances_3.cpp:// Copyright John Maddock 2011.

test_instances/float_test_instances_2.cpp:// Copyright John Maddock 2011.

test_instances/float_test_instances_1.cpp:// Copyright John Maddock 2011.

test_instances/double_test_instances_8.cpp:// Copyright John Maddock 2011.

test_instances/ldouble_test_instances_5.cpp:// Copyright John Maddock 2011.

test_instantiate1.cpp:// Copyright John Maddock 2006.

test_instantiate2.cpp:// Copyright John Maddock 2006.

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

test_inverse_chi_squared.cpp:// Copyright Paul A. Bristow 2010.

test_inverse_chi_squared.cpp:// Copyright John Maddock 2010.

test_inverse_chi_squared_distribution.cpp:// Copyright Paul A. Bristow 2010.

test_inverse_chi_squared_distribution.cpp:// Copyright John Maddock 2010.

test_inverse_gamma_distribution.cpp:// Copyright Paul A. Bristow 2010.

test_inverse_gamma_distribution.cpp:// Copyright John Maddock 2010.

test_inverse_gaussian.cpp:// Copyright Paul A. Bristow 2010.

test_inverse_gaussian.cpp:// Copyright John Maddock 2010.

test_jacobi.cpp:// Copyright John Maddock 2012

test_jacobi.hpp:// Copyright John Maddock 2006.

test_jacobi.hpp:// Copyright Paul A. Bristow 2007, 2009

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

test_laguerre.hpp:// Copyright John Maddock 2006.

test_laguerre.hpp:// Copyright Paul A. Bristow 2007, 2009

test_laplace.cpp:// Copyright Thijs van den Berg, 2008.

test_laplace.cpp:// Copyright John Maddock 2008.

test_laplace.cpp:// Copyright Paul A. Bristow 2008, 2009.

test_ldouble_simple.cpp:// Copyright John Maddock 2013.

test_legacy_nonfinite.cpp:// Copyright (c) 2006 Johan Rade

test_legacy_nonfinite.cpp:// Copyright (c) 2011 Paul A. Bristow comments

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

test_legendre.hpp:// Copyright John Maddock 2006.

test_legendre.hpp:// Copyright Paul A. Bristow 2007, 2009

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

test_lexical_cast.cpp:// Copyright (c) 2006 Johan Rade

test_lexical_cast.cpp:// Copyright (c) 2011 Paul A. Bristow incorporated Boost.Math

test_logistic_dist.cpp:// Copyright 2008 Gautam Sewani

test_lognormal.cpp:// Copyright John Maddock 2006.

test_lognormal.cpp:// Copyright Paul A. Bristow 2007

test_long_double_support.cpp:// Copyright John Maddock 2009

test_math_fwd.cpp:// Copyright John Maddock 2010.

test_math_fwd.cpp:// Copyright Paul A. Bristow 2010.

test_minima.cpp:// Copyright John Maddock 2006.

test_minima.cpp:// Copyright Paul A. Bristow 2007.

test_nc_beta.cpp:// Copyright John Maddock 2008.

test_nc_chi_squared.cpp:// Copyright John Maddock 2008.

test_nc_f.cpp:// Copyright John Maddock 2008.

test_nc_t.cpp:// Copyright John Maddock 2008, 2012.

test_nc_t.cpp:// Copyright Paul A. Bristow 2012.

test_ncbeta_hooks.hpp:// (C) Copyright John Maddock 2008.

test_nccs_hooks.hpp:// (C) Copyright John Maddock 2008.

test_negative_binomial.cpp:// Copyright Paul A. Bristow 2007.

test_negative_binomial.cpp:// Copyright John Maddock 2006.

test_next.cpp:// (C) Copyright John Maddock 2008.

test_nonfinite_io.cpp:// Copyright 2011 Paul A. Bristow

test_nonfinite_trap.cpp:// Copyright (c) 2006 Johan Rade

test_nonfinite_trap.cpp:// Copyright (c) 2011 Paul A. Bristow To incorporate into Boost.Math

test_normal.cpp:// Copyright Paul A. Bristow 2010.

test_normal.cpp:// Copyright John Maddock 2007.

test_out_of_range.hpp:// Copyright John Maddock 2012.

test_owens_t.cpp:// Copyright Paul A. Bristow 2012.

test_owens_t.cpp:// Copyright Benjamin Sobotta 2012.

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

test_pareto.cpp:// Copyright John Maddock 2006.

test_poisson.cpp:// Copyright Paul A. Bristow 2007.

test_poisson.cpp:// Copyright John Maddock 2006.

test_policy.cpp:// Copyright John Maddock 2007.

test_policy_2.cpp:// Copyright John Maddock 2007.

test_policy_3.cpp:// Copyright John Maddock 2007.

test_policy_4.cpp:// Copyright John Maddock 2007.

test_policy_5.cpp:// Copyright John Maddock 2007.

test_policy_6.cpp:// Copyright John Maddock 2007.

test_policy_7.cpp:// Copyright John Maddock 2007.

test_policy_8.cpp:// Copyright John Maddock 2007.

test_policy_sf.cpp:// (C) Copyright John Maddock 2007.

test_print_info_on_type.cpp:// Copyright John Maddock 2010.

test_rational_instances/test_rational_ldouble2.cpp:// (C) Copyright John Maddock 2006-7.

test_rational_instances/test_rational_float2.cpp:// (C) Copyright John Maddock 2006-7.

test_rational_instances/test_rational_double2.cpp:// (C) Copyright John Maddock 2006-7.

test_rational_instances/test_rational_double3.cpp:// (C) Copyright John Maddock 2006-7.

test_rational_instances/test_rational_ldouble1.cpp:// (C) Copyright John Maddock 2006-7.

test_rational_instances/test_rational_float4.cpp:// (C) Copyright John Maddock 2006-7.

test_rational_instances/test_rational_double5.cpp:// (C) Copyright John Maddock 2006-7.

test_rational_instances/test_rational_double4.cpp:// (C) Copyright John Maddock 2006-7.

test_rational_instances/test_rational_real_concept1.cpp:// (C) Copyright John Maddock 2006-7.

test_rational_instances/test_rational_real_concept3.cpp:// (C) Copyright John Maddock 2006-7.

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

test_rational_instances/test_rational_ldouble3.cpp:// (C) Copyright John Maddock 2006-7.

test_rational_instances/test_rational_float3.cpp:// (C) Copyright John Maddock 2006-7.

test_rational_instances/test_rational_real_concept5.cpp:// (C) Copyright John Maddock 2006-7.

test_rational_instances/test_rational_ldouble5.cpp:// (C) Copyright John Maddock 2006-7.

test_rational_instances/test_rational_ldouble4.cpp:// (C) Copyright John Maddock 2006-7.

test_rational_instances/test_rational_double1.cpp:// (C) Copyright John Maddock 2006-7.

test_rational_instances/test_rational_real_concept4.cpp:// (C) Copyright John Maddock 2006-7.

test_rational_instances/test_rational_real_concept2.cpp:// (C) Copyright John Maddock 2006-7.

test_rational_instances/test_rational_float1.cpp:// (C) Copyright John Maddock 2006-7.

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

test_rayleigh.cpp:// Copyright John Maddock 2006.

test_real_concept.cpp:// Copyright John Maddock 2010

test_real_concept_neg_bin.cpp:// Copyright Paul A. Bristow 2010.

test_real_concept_neg_bin.cpp:// Copyright John Maddock 2010.

test_remez.cpp:// Copyright John Maddock 2006

test_remez.cpp:// Copyright Paul A. Bristow 2007

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

test_round.cpp:// (C) Copyright John Maddock 2007.

test_sign.cpp:#define BOOST_TEST_MAIN// Copyright John Maddock 2008

test_sign.cpp:// (C) Copyright Paul A. Bristow 2011 (added tests for changesign)

test_signed_zero.cpp:// Copyright 2006 Johan Rade

test_signed_zero.cpp:// Copyright 2011 Paul A. Bristow To incorporate into Boost.Math

test_signed_zero.cpp:// Copyright 2012 Paul A. Bristow with new tests.

test_skew_normal.cpp:// Copyright Paul A. Bristow 2012.

test_skew_normal.cpp:// Copyright John Maddock 2012.

test_skew_normal.cpp:// Copyright Benjamin Sobotta 2012

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

test_students_t.cpp:// Copyright Paul A. Bristow 2006.

test_students_t.cpp:// Copyright John Maddock 2006.

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

test_tgamma_ratio.hpp:// Copyright John Maddock 2006.

test_tgamma_ratio.hpp:// Copyright Paul A. Bristow 2007, 2009

test_toms748_solve.cpp:// (C) Copyright John Maddock 2006.

test_tr1.c:/* (C) Copyright John Maddock 2008.

test_tr1.cpp:// (C) Copyright John Maddock 2008.

test_triangular.cpp:// Copyright Paul Bristow 2006, 2007.

test_triangular.cpp:// Copyright John Maddock 2006, 2007.

test_uniform.cpp:// Copyright Paul Bristow 2007.

test_uniform.cpp:// Copyright John Maddock 2006.

test_weibull.cpp:// Copyright John Maddock 2006, 2012.

test_weibull.cpp:// Copyright Paul A. Bristow 2007, 2012.

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

test_zeta.hpp:// Copyright John Maddock 2006.

test_zeta.hpp:// Copyright Paul A. Bristow 2007, 2009

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

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

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

tgamma_delta_ratio_int2.ipp:// (C) Copyright John Maddock 2006-7.

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

zeta_1_below_data.ipp:// Copyright John Maddock 2008.

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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

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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

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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/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

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unuran-1.8.1/doc/figures/discrete_inversion.eps

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unuran-1.8.1/doc/src/README

unuran-1.8.1/doc/src/arvag.dh

unuran-1.8.1/doc/src/error_debug.dh

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unuran-1.8.1/doc/src/index.dh

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unuran-1.8.1/doc/src/make_texi.pl

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unuran-1.8.1/doc/src/methods_cont.texi

unuran-1.8.1/doc/src/methods_cvec.texi

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unuran-1.8.1/doc/src/methods_discr.texi

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unuran-1.8.1/doc/src/methods_mcmc.texi

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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

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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

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unuran-1.8.1/src/methods/deprecated_tdrgw.h

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unuran-1.8.1/src/methods/deprecated_vmt_struct.h

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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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4.3.8 matplotlib-venn

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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: pcg64

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PCG Random Number Generation for C.

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

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kiwisolver

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Chris Colbert began the Kiwi project in December 2013 in an effort to

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The Nucleic Development Team is the set of all contributors to the Nucleic

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The core team that coordinates development on GitHub can be found here:

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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

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*/

/*

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

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**

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*/

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

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/*

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**

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*/

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_tkmini.h

/* Small excerpts from the Tcl / Tk 8.6 headers

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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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Dependency: contourpy

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