Oracle® Financial Services Crime and Compliance Management Cloud Service

Licensing Information User Manual

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Oracle Financial Services Crime and Compliance Management Cloud Service Licensing Information User Manual, Release 26.05.01

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About This Content

This guide provides information on the Oracle FCCM Cloud Service (FCCM CS).

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Oracle Financial Services Crime and Compliance Management Cloud Service

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

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Table 3-1 Table: Third Party Software Tools

Products	Licensing Description
Oracle Financial Services Crime and Compliance Management Cloud Service includes the following products: • Oracle FCCM Transaction Monitoring Cloud Service • Oracle FCCM Know Your Customer Cloud Service • Oracle FCCM Customer Screening Cloud Service • Oracle FCCM Regulatory Reporting Cloud Service • Oracle FCCM Transaction Filtering Cloud Service • Oracle FCCM Investigation Hub Cloud Service	• Third party software tools used in the application: – Apache 2.0 * Commons Configuration * Commons IO * Commons Lang * cython * Drools * Evidently * Guava * hazelcast-all * helidon-common * helidon-integrations-cdi-datasource-hikaricp * helidon-integrations-cdi-hibernate * helidon-integrations-cdi-jpa * helidon-integrations-cdi-jta-weld * helidon-media-jackson * helidon-microprofile-bean-validation * helidon-microprofile-core * helidon-microprofile-health * helidon-microprofile-metrics * helidon-microprofile-rest-client * helidon-microprofile-tracing * helidon-tracing-opentracing * helidon-webclient * httpclient5 * Jackson Annotations * Jackson Core * Jackson Databind * jackson-dataformat-yaml * jackson-jaxrs-base * jackson-jaxrs-json-provider * jackson-module-jaxb-annotations * jjwt-api * jjwt-impl * Joda Time * JsonPath * liquibase-core * micrometer-core * microprofile-metrics-api * Modin * Natural Language Toolkit (NLTK) * onnxruntime python * Python * regex * requests * SnakeYAML * Spring Framework * spring-boot-autoconfigure

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Table 3-1 (Cont.) Table: Third Party Software Tools

Products	Licensing Description
	* spring-boot-configuration-processor * spring-boot-devtools * spring-boot-maven-plugin * Spring-boot-starter * spring-boot-starter-actuator * spring-boot-starter-cache * spring-boot-starter-data-jdbc * spring-boot-starter-data-jpa * spring-boot-starter-freemarker * spring-boot-starter-jdbc * spring-boot-starter-jetty * spring-boot-starter-log4j2 * spring-boot-starter-mail * spring-boot-starter-parent * spring-boot-starter-security * spring-boot-starter-tomcat * spring-boot-starter-validation * spring-boot-starter-web * springdoc-openapi-starter-webmvc-ui * tomcat-embed-core * tomcat-embed-el * tomcat-embed-jasper * whylogs * xgboost * XML Security for Java – BSD 2-clause or 3-clause * Jinja2 – Eclipse Distribution License * Jakarta Activation API (JAF) – GPL v.2 * python-Levenshtein – MIT * Editdistance * imbalanced-learn * matplotlib * matplotlib-venn * Minisom * PDPbox * pydantic * pyjnius * shap * SQLAlchemy – Multiple Licenses * OCI SDK for Python * python-dateutil * python-oracledb – Python License * matplotlib – UPL * JavaScript Extension Toolkit (JET)

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Products	Licensing Description
Oracle FCCM Studio Cloud Service	• Third party software tools used in the application: – Apache 2.0 * coherence-spring-boot-starter * Commons Configuration * Commons FileUpload * Commons IO * Commons Lang * Guava * Joda Time * liquibase-core * SnakeYAML * springdoc-openapi-ui * XML Security for Java – Eclipse Foundation and GNU Classpath * jersey-media-multipart – Other FOSS License * JSON in Java
Oracle FCCM Automated Scenario Calibration Cloud Service	• Third party software tools used in the application: – Apache 2.0 * requests * cython * xgboost – BSD 2-clause or 3-clause * NumPy * Pandas * py4j * pyod * scikit-learn * scikit-optimize * scipy * seaborn * statsmodels – MIT * Editdistance * imbalanced-learn * matplotlib * matplotlib-venn * Minisom * PDPbox * pyjnius * shap * SQLAlchemy – Multiple Licenses * python-oracledb

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Table 4-1 Open Source Software

Provider	Component	Functionality	Licensing Information
Apache Software Foundation	• coherence-spring-boot-starter • Commons Configuration • Commons FileUpload • Commons IO • Commons Lang • cython • Drools • Evidently • Guava • hazelcast-all • helidon-common • helidon-integrations-cdi-datasource-hikaricp • helidon-integrations-cdi-hibernate • helidon-integrations-cdi-jpa • helidon-integrations-cdi-jta-weld • helidon-media-jackson • helidon-microprofile-bean-validation • helidon-microprofile-core • helidon-microprofile-health • helidon-microprofile-metrics • helidon-microprofile-rest-client • helidon-microprofile-tracing • helidon-tracing-opentracing • helidon-webclient • httpclient5 • Jackson Annotations • Jackson Core • Jackson Databind • jackson-dataformat-yaml • jackson-jaxrs-base • jackson-jaxrs-json-provider • jackson-module-jaxb-annotations	Scripting Platform Platform Persistence Tier & Install	The Apache Software Foundation. This product includes software developed by The Apache Software Foundation (http://www.apache.org/). Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at http://www.apache.org/licenses/LICENSE-2.0. For a copy of the license, see Apache License, Version 2.0.

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Provider	Component	Functionality	Licensing Information
	• jjwt-api • jjwt-impl • Joda Time • JsonPath • liquibase-core • micrometer-core • microprofile-metrics-api • Modin • Natural Language Toolkit (NLTK) • onnxruntime python • Python • regex • requests • SnakeYAML • Spring Framework • spring-boot-autoconfigure • spring-boot-configuration-metadata • spring-boot-configuration-processor • spring-boot-devtools • spring-boot-maven-plugin • Spring-boot-starter • spring-boot-starter-actuator • spring-boot-starter-cache • spring-boot-starter-data-jdbc • spring-boot-starter-data-jpa • spring-boot-starter-freemarker • spring-boot-starter-jdbc • spring-boot-starter-jetty • spring-boot-starter-log4j2 • spring-boot-starter-mail • spring-boot-starter-parent • spring-boot-starter-security		

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Table 4-1 (Cont.) Open Source Software

Provider	Component	Functionality	Licensing Information
	• spring-boot-starter-tomcat • spring-boot-starter-validation • spring-boot-starter-web • springdoc-openapi-starter-webmvc-ui • springdoc-openapi-ui • tomcat-embed-core • tomcat-embed-el • tomcat-embed-jasper • whylogs • xgboost • XML Security for Java		
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Multiple Licenses	• OCI SDK for Python • python-dateutil • python-oracledb		
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UPL	• JavaScript Extension Toolkit (JET)		

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

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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:

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

It contains the certificates in PEM format and therefore

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Just configure this file as the SSLCACertificateFile.#

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

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MT19937

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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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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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Files: scipy/.dylibs/libopenblas*.so

Description: bundled in OpenBLAS

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Name: GCC runtime library
Files: scipy/.dylibs/libgfortran*, scipy/.dylibs/libgcc*
Description: dynamically linked to files compiled with gcc
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---------- Separator ----------

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Name: LAPACK

Files: scipy.libs\libopenblas*.dll

Description: bundled in OpenBLAS

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

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Name: GCC runtime library

Files: scipy.libs\libopenblas*.dll

Description: statically linked to files compiled with gcc

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

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

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

* implementation, obtained from https://www.ryanjuckett.com,

* which has been ported from C++ to C and which has

* modifications specific to printing floats in numpy.

*

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

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dateutil - Extensions to the standard Python datetime module.

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Vendored dependencies

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

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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.,
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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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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-
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

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1.6.1 1.6 2001 CNRI yes (2)

2.1 2.0+1.6.1 2001 PSF no

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2.1.1 2.1+2.0.1 2001 PSF yes

2.1.2 2.1.1 2002 PSF yes

2.1.3 2.1.2 2002 PSF yes

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dragon4

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Name: PCG64

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PCG Random Number Generation for C.

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Name: MT19937

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

Constants used in the rk_double implementation by Isaku Wada.

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Name: Julia

The ziggurat methods were derived from Julia.

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Name: numpy.core.ma

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MT19937

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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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SFC64

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

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

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

License: 3-clause BSD

For details, see the header inside scipy/io/_fast_matrix_market/src/pystreambuf.h

Name: fast_float

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

License: MIT

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Name: ryu

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

License: BSL-1.0

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Name: ID

Files: scipy/linalg/src/id_dist/*

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For details, see scipy/linalg/src/id_dist/doc/doc.tex

Name: L-BFGS-B

Files: scipy/optimize/lbfgsb/*

License: BSD license

For details, see scipy/optimize/lbfgsb/README

Name: LAPJVsp

Files: scipy/sparse/csgraph/_matching.pyx

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Name: ARPACK

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Name: Qhull

Files: scipy/spatial/qhull/*

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Name: Cephes

Files: scipy/special/cephes/*

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Name: Faddeeva

Files: scipy/special/Faddeeva.*

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Name: qd

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

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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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Name: pybind11
Files: no source files are included, however pybind11 binary artifacts are included with every binary build of SciPy.
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Files: scipy/optimize/_highs/*

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Files: scipy/_lib/boost_math/*

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Name: Biasedurn

Files: scipy/stats/biasedurn/*

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Name: UNU.RAN

Files: scipy/_lib/unuran/*

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Name: NumPy

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

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

and scipy/stats/_rcont/logfactorial.c

Name: array-api-compat

Files: scipy/_lib/array-api-compat/*

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Name: Tempita

Files: scipy/_build_utils/tempita/*

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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

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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
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Version 3, 29 June 2007

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Name: libquadmath

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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

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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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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/

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Description: bundled in OpenBLAS

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Name: GCC runtime library

Files: scipy/.dylibs/libgfortran*, scipy/.dylibs/libgcc*

Description: dynamically linked to files compiled with gcc

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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

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

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

./tools/wheels/LICENSE_win32.txt

This binary distribution of SciPy also bundles the following software:

Name: OpenBLAS

Files: scipy.libs\libopenblas*.dll

Description: bundled as a dynamically linked library

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Name: LAPACK

Files: scipy.libs\libopenblas*.dll

Description: bundled in OpenBLAS

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

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Files: scipy.libs\libopenblas*.dll
Description: statically linked to files compiled with gcc
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Name: libquadmath

Files: scipy.libs\libopenblas*.dll

Description: statically 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

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

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null (same as :numpy)

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5. scikit-learn [required: >=1.0.0, installed: 1.6.0]

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5.2 numpy

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5.3 scipy

5.4 threadpoolctl

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scipy

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

Name: scipy

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

License: BSD 3-Clause "New" or "Revised" License

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

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

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test_instantiate1.cpp:// Copyright John Maddock 2006.

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Description: bundled as a dynamically linked library

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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,

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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

License 3-Clause BSD

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

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

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

unuran-1.8.1/COPYING

unuran-1.8.1/INSTALL

unuran-1.8.1/Makefile.am

unuran-1.8.1/Makefile.in

unuran-1.8.1/NEWS

unuran-1.8.1/UPGRADE

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/install-sh

unuran-1.8.1/autoconf/ltmain.sh

unuran-1.8.1/autoconf/mdate-sh

unuran-1.8.1/autoconf/missing

unuran-1.8.1/autogen.sh

unuran-1.8.1/configure

unuran-1.8.1/doc/Makefile.am

unuran-1.8.1/doc/Makefile.in

unuran-1.8.1/doc/figures/Makefile.am

unuran-1.8.1/doc/figures/Makefile.in

unuran-1.8.1/doc/figures/discrete_inversion.eps

unuran-1.8.1/doc/figures/discrete_inversion.pdf

unuran-1.8.1/doc/figures/discrete_inversion.png

unuran-1.8.1/doc/figures/discrete_inversion.txt

unuran-1.8.1/doc/figures/inversion.eps

unuran-1.8.1/doc/figures/inversion.pdf

unuran-1.8.1/doc/figures/inversion.png

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unuran-1.8.1/doc/src/Makefile.am

unuran-1.8.1/doc/src/Makefile.in

unuran-1.8.1/doc/src/README

unuran-1.8.1/doc/src/arvag.dh

unuran-1.8.1/doc/src/error_debug.dh

unuran-1.8.1/doc/src/examples.dh

unuran-1.8.1/doc/src/glossary.dh

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unuran-1.8.1/doc/src/index.dh

unuran-1.8.1/doc/src/installation.dh

unuran-1.8.1/doc/src/intro.dh

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unuran-1.8.1/doc/src/methods_cemp.texi

unuran-1.8.1/doc/src/methods_cont.texi

unuran-1.8.1/doc/src/methods_cvec.texi

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unuran-1.8.1/doc/src/methods_mcmc.texi

unuran-1.8.1/doc/src/misc.dh

unuran-1.8.1/doc/src/ref_example0.texi

unuran-1.8.1/doc/src/ref_example0_str.texi

unuran-1.8.1/doc/src/ref_example1.texi

unuran-1.8.1/doc/src/ref_example1_str.texi

unuran-1.8.1/doc/src/ref_example2.texi

unuran-1.8.1/doc/src/ref_example2_str.texi

unuran-1.8.1/doc/src/ref_example3.texi

unuran-1.8.1/doc/src/ref_example3_str.texi

unuran-1.8.1/doc/src/ref_example_FuncStr.texi

unuran-1.8.1/doc/src/ref_example_anti.texi

unuran-1.8.1/doc/src/ref_example_anti_str.texi

unuran-1.8.1/doc/src/ref_example_cext.texi

unuran-1.8.1/doc/src/ref_example_cont.texi

unuran-1.8.1/doc/src/ref_example_cont_str.texi

unuran-1.8.1/doc/src/ref_example_dext.texi

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unuran-1.8.1/doc/src/ref_example_vemp.texi

unuran-1.8.1/doc/src/ref_example_win32_1.texi

unuran-1.8.1/doc/src/ref_example_win32_2.texi

unuran-1.8.1/doc/src/references.dh

unuran-1.8.1/doc/src/stddist.dh

unuran-1.8.1/doc/src/texinfo.tex

unuran-1.8.1/doc/src/top.dh

unuran-1.8.1/doc/src/unuran_src.texi

unuran-1.8.1/doc/stamp-1

unuran-1.8.1/doc/stamp-vti

unuran-1.8.1/doc/unuran.html

unuran-1.8.1/doc/unuran.info

unuran-1.8.1/doc/unuran.pdf

unuran-1.8.1/doc/unuran.texi

unuran-1.8.1/doc/unuran.txt

unuran-1.8.1/doc/unuran_win32.html

unuran-1.8.1/doc/unuran_win32.info

unuran-1.8.1/doc/unuran_win32.pdf

unuran-1.8.1/doc/unuran_win32.texi

unuran-1.8.1/doc/unuran_win32_libname.texi

unuran-1.8.1/doc/version.texi

unuran-1.8.1/doc/version_win32.texi

unuran-1.8.1/examples/Makefile.am

unuran-1.8.1/examples/Makefile.in

unuran-1.8.1/examples/example0.c

unuran-1.8.1/examples/example0_str.c

unuran-1.8.1/examples/example1.c

unuran-1.8.1/examples/example1_str.c

unuran-1.8.1/examples/example2.c

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unuran-1.8.1/examples/example3.c

unuran-1.8.1/examples/example3_str.c

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unuran-1.8.1/examples/example_FuncStr.c

unuran-1.8.1/examples/example_anti.c

unuran-1.8.1/examples/example_anti_str.c

unuran-1.8.1/examples/example_cext.c

unuran-1.8.1/examples/example_cont.c

unuran-1.8.1/examples/example_cont_str.c

unuran-1.8.1/examples/example_cpp.cpp

unuran-1.8.1/examples/example_dext.c

unuran-1.8.1/examples/example_discr.c

unuran-1.8.1/examples/example_discr_str.c

unuran-1.8.1/examples/example_emp.c

unuran-1.8.1/examples/example_emp_str.c

unuran-1.8.1/examples/example_errorhandler.c

unuran-1.8.1/examples/example_gsl.c

unuran-1.8.1/examples/example_mcorr.c

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unuran-1.8.1/experiments/make_timing_table.c

unuran-1.8.1/experiments/timings_chap_10.conf

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unuran-1.8.1/scripts/Makefile.am

unuran-1.8.1/scripts/Makefile.in

unuran-1.8.1/scripts/compute_machine_constants.c

unuran-1.8.1/scripts/make_urng_header.pl

unuran-1.8.1/scripts/merge_h.pl

unuran-1.8.1/scripts/read_PDF.pl

unuran-1.8.1/scripts/remove_comments.pl

unuran-1.8.1/scripts/run_valgrind.sh

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unuran-1.8.1/scripts/win32/Makefile.win32

unuran-1.8.1/scripts/win32/build.sh

unuran-1.8.1/scripts/win32/example1.c

unuran-1.8.1/scripts/win32/example2.c

unuran-1.8.1/scripts/win32/make_dll_def.pl

unuran-1.8.1/src/Makefile.am

unuran-1.8.1/src/Makefile.in

unuran-1.8.1/src/README

unuran-1.8.1/src/distr/Makefile.am

unuran-1.8.1/src/distr/Makefile.in

unuran-1.8.1/src/distributions/Makefile.am

unuran-1.8.1/src/distributions/Makefile.in

unuran-1.8.1/src/distributions/README

unuran-1.8.1/src/methods/Makefile.am

unuran-1.8.1/src/methods/Makefile.in

unuran-1.8.1/src/parser/Makefile.am

unuran-1.8.1/src/parser/Makefile.in

unuran-1.8.1/src/parser/functparser_doc.dh

unuran-1.8.1/src/parser/make_stringparser.pl

unuran-1.8.1/src/parser/stringparser_doc.dh

unuran-1.8.1/src/specfunct/Makefile.am

unuran-1.8.1/src/specfunct/Makefile.in

unuran-1.8.1/src/tests/Makefile.am

unuran-1.8.1/src/tests/Makefile.in

unuran-1.8.1/src/uniform/Makefile.am

unuran-1.8.1/src/uniform/Makefile.in

unuran-1.8.1/src/uniform/fish.c

unuran-1.8.1/src/uniform/mrg31k3p.c

unuran-1.8.1/src/uniform/mstd.c

unuran-1.8.1/src/uniform/unuran_urng_gsl.h

unuran-1.8.1/src/uniform/unuran_urng_prng.h

unuran-1.8.1/src/uniform/unuran_urng_rngstreams.h

unuran-1.8.1/src/uniform/urng_builtin.c

unuran-1.8.1/src/uniform/urng_builtin.h

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unuran-1.8.1/src/uniform/urng_fvoid.c

unuran-1.8.1/src/uniform/urng_fvoid.h

unuran-1.8.1/src/uniform/urng_gsl.c

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unuran-1.8.1/src/uniform/urng_randomshift.c

unuran-1.8.1/src/uniform/urng_randomshift.h

unuran-1.8.1/src/uniform/urng_rngstreams.c

unuran-1.8.1/src/uniform/urng_rngstreams.h

unuran-1.8.1/src/unuran.h.in

unuran-1.8.1/src/urng/Makefile.am

unuran-1.8.1/src/urng/Makefile.in

unuran-1.8.1/src/utils/Makefile.am

unuran-1.8.1/src/utils/Makefile.in

unuran-1.8.1/tests/Makefile.am

unuran-1.8.1/tests/Makefile.in

unuran-1.8.1/tests/README.conf

unuran-1.8.1/tests/make_test_files.pl

unuran-1.8.1/tests/t_arou.c

unuran-1.8.1/tests/t_arou.conf

unuran-1.8.1/tests/t_ars.c

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unuran-1.8.1/tests/t_auto.c

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unuran-1.8.1/tests/t_cext.c

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unuran-1.8.1/tests/t_cstd.c

unuran-1.8.1/tests/t_cstd.conf

unuran-1.8.1/tests/t_dari.c

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unuran-1.8.1/tests/t_dau.conf

unuran-1.8.1/tests/t_deprecated_tdrgw.c

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unuran-1.8.1/tests/t_dgt.c

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unuran-1.8.1/tests/t_distr.c

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unuran-1.8.1/tests/t_distr_cemp.c

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unuran-1.8.1/tests/t_distr_condi.c

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unuran-1.8.1/tests/t_distr_cont.c

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unuran-1.8.1/tests/t_empk.c

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unuran-1.8.1/tests/t_tdr_gw.c

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unuran-1.8.1/tests/t_tdr_ia.c

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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

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unuran-1.8.1/tests/t_unur_tests.c

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unuran-1.8.1/tests/t_urng.conf

unuran-1.8.1/tests/t_utdr.c

unuran-1.8.1/tests/t_utdr.conf

unuran-1.8.1/tests/t_util_matrix.c

unuran-1.8.1/tests/t_util_matrix.conf

unuran-1.8.1/tests/t_vempk.c

unuran-1.8.1/tests/t_vempk.conf

unuran-1.8.1/tests/t_vnrou.c

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unuran-1.8.1/tests/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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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.

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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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tempita

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

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

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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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The ziggurat methods were derived from Julia.

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A. HISTORY OF THE SOFTWARE

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

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

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

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release Derived Year Owner GPL-
from compatible? (1)

0.9.0 thru 1.2 1991-1995 CWI yes

1.3 thru 1.5.2 1.2 1995-1999 CNRI yes

1.6 1.5.2 2000 CNRI no

2.0 1.6 2000 BeOpen.com no

1.6.1 1.6 2001 CNRI yes (2)

2.1 2.0+1.6.1 2001 PSF no

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2.0.1 2.0+1.6.1 2001 PSF yes

2.1.1 2.1+2.0.1 2001 PSF yes

2.2 2.1.1 2001 PSF yes

2.1.2 2.1.1 2002 PSF yes

2.1.3 2.1.2 2002 PSF yes

2.2.1 2.2 2002 PSF yes

2.2.2 2.2.1 2002 PSF yes

2.2.3 2.2.2 2003 PSF yes

2.3 2.2.2 2002-2003 PSF yes

2.3.1 2.3 2002-2003 PSF yes

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2.3.4 2.3.3 2004 PSF yes

2.3.5 2.3.4 2005 PSF yes

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statsmodels needs "pandas"

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"python-dateutil" needs "six"

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"pandas" needs "pytz"

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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

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form l<= x <= u.

"""

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

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

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License of L-BFGS-B (Fortran code)

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

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* 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,
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ACM Transactions on Mathematical Software, 23, 4, pp. 550 - 560.
* J.L. Morales and J. Nocedal. L-BFGS-B: Remark on Algorithm 778: L-BFGS-B,
FORTRAN routines for large scale bound constrained optimization (2011),
ACM Transactions on Mathematical Software, 38, 1.
"""

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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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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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Name: HiGHS

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Name: Boost

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Name: Tempita

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imbalanced-learn

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

Name: imbalanced-learn

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

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

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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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From: Agner Fog <agner@agner.org>

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

Subject: Re: Add BiasedUrn to SciPy?

To: Matt Haberland <mhaberla@calpoly.edu>

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

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

are available here:

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

Best regards,

Agner Fog

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

Hi Agner, I'm a maintainer of the Python scientific computing library SciPy,

and I'm working on improving the capabilities of our statistics subpackage

scipy.stats. We'd like to add both Fisher's and Wallenius' noncentral

hypergeometric distributions, but these look quite challenging to implement.

We found your BiasedUrn package, and we'd love to wrap it, but we can't

include GPL-3 licensed code under our BSD-new license. Would you consider

re-licensing BiasedUrn under a more permissive license, such as BSD-new or

MIT, so we can include it in SciPy?

Thank you for considering it!

Matt

--

Matt Haberland

Assistant Professor

BioResource and Agricultural Engineering

08A-3K, Cal Poly

Name: UNU.RAN

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unuran-1.8.1/doc/stamp-1

unuran-1.8.1/doc/stamp-vti

unuran-1.8.1/doc/unuran.html

unuran-1.8.1/doc/unuran.info

unuran-1.8.1/doc/unuran.pdf

unuran-1.8.1/doc/unuran.texi

unuran-1.8.1/doc/unuran.txt

unuran-1.8.1/doc/unuran_win32.html

unuran-1.8.1/doc/unuran_win32.info

unuran-1.8.1/doc/unuran_win32.pdf

unuran-1.8.1/doc/unuran_win32.texi

unuran-1.8.1/doc/unuran_win32_libname.texi

unuran-1.8.1/doc/version.texi

unuran-1.8.1/doc/version_win32.texi

unuran-1.8.1/examples/Makefile.am

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unuran-1.8.1/examples/Makefile.in

unuran-1.8.1/examples/example0.c

unuran-1.8.1/examples/example0_str.c

unuran-1.8.1/examples/example1.c

unuran-1.8.1/examples/example1_str.c

unuran-1.8.1/examples/example2.c

unuran-1.8.1/examples/example2_str.c

unuran-1.8.1/examples/example3.c

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unuran-1.8.1/examples/example_FuncStr.c

unuran-1.8.1/examples/example_anti.c

unuran-1.8.1/examples/example_anti_str.c

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unuran-1.8.1/tests/t_deprecated_vmt.c

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unuran-1.8.1/tests/t_stringparser.c

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unuran-1.8.1/tests/t_tabl.c

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unuran-1.8.1/tests/t_tdr.c

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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

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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

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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: mt19937

Files: numpy/src/mt19937/*

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MT19937

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The rk_random and rk_seed functions algorithms and the original design of
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Original algorithm for the implementation of rk_interval function from
Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised by
Magnus Jonsson.

Constants used in the rk_double implementation by Isaku Wada.

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PCG Random Number Generation for C.

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

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

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python-dateutil

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dateutil - Extensions to the standard Python datetime module.

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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

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

License: 3-clause BSD

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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

License: MSVC

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\VC\redist\x86\Microsoft.VC90.ATL\

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

msvcr90.dll

Microsoft.VC90.CRT.manifest

\VC\redist\ia64\Microsoft.VC90.CRT\

msvcm90.dll

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msvcp90.dll

msvcr90.dll

Microsoft.VC90.CRT.manifest

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tempita

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dragon4

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

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

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

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

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

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Name: HiGHS

Files: scipy/optimize/_highs/*

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Name: Boost

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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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numba

numpy

packaging

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Name: numpy.core.ma

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Name: SPLITMIX64

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

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Name: SFC64

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

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

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Name: PCG64

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PCG Random Number Generation for C.

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Name: MT19937

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

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

Constants used in the rk_double implementation by Isaku Wada.

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Name: Julia

The ziggurat methods were derived from Julia.

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Components

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Name: fast_matrix_market

Files: scipy/io/_fast_matrix_market/*

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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.

"""

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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,
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ACM Transactions on Mathematical Software, 23, 4, pp. 550 - 560.
* J.L. Morales and J. Nocedal. L-BFGS-B: Remark on Algorithm 778: L-BFGS-B,
FORTRAN routines for large scale bound constrained optimization (2011),
ACM Transactions on Mathematical Software, 38, 1.
"""

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

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Example usage

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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: ampgo

Files: benchmarks/benchmarks/go_benchmark_functions/*.py

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

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

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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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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

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

---

agg24-svn

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ttutil.cpp

/*

* Modified for use within matplotlib

* 5 July 2007

* Michael Droettboom

*/

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

/* (c) Frank Siegert 1996 */

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

pprdrv.h

/*

* Modified for use within matplotlib

* 5 July 2007

* Michael Droettboom

*/

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```
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**
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*/

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

pprdrv_tt.cpp

------------

/*
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* 5 July 2007
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**
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*/

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

pprdrv_tt2.cpp

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* 5 July 2007
* Michael Droettboom
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/*
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**

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*/

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truetype.h

/*

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*/

/*

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

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** This include file is shared by the source files

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

**

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*/

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

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

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MT19937

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

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

Constants used in the rk_double implementation by Isaku Wada.

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SPLITMIX64

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Dependency: contourpy

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