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jakarta.xml.ws:jakarta.xml.ws-api
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org.apache.tomcat.embed tomcat-embed-el

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org.apache.tomcat.util.json.JSONParser.jj is a public domain javacc grammar for JSON written by Robert Fischer. <https://github.com/RobertFischer/json-parser>

For portions of the Tomcat JNI OpenSSL API and the OpenSSL JSSE integration The org.apache.tomcat.jni and the org.apache.tomcat.net.openssl packages are derivative work originating from the Netty project and the finagle-native project developed at Twitter

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The original XML Schemas for Java EE Deployment Descriptors:

- javaee\_5.xsd
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- javaee\_web\_services\_client\_1\_2.xsd
- javaee\_6.xsd - javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd - web-app\_3\_0.xsd
- web-common\_3\_0.xsd - web-fragment\_3\_0.xsd
- javaee\_7.xsd - javaee\_web\_services\_1\_4.xsd

- javaee\_web\_services\_client\_1\_4.xsd
- jsp\_2\_3.xsd - web-app\_3\_1.xsd
- web-common\_3\_1.xsd
- web-fragment\_3\_1.xsd
- javaee\_8.xsd - web-app\_4\_0.xsd
- web-common\_4\_0.xsd
- web-fragment\_4\_0.xsd

may be obtained from:

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4PL org.codehaus.woodstox:stax2-api

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com.fasterxml:classmate

Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

\* Brian Langel

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    "python-dateutil" needs "six"
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  "pandas" needs "tzdata"
    "tzdata" doesn't have any dependencies
gluonts needs "pydantic"
  "pydantic" needs "typing-extensions"
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gluonts needs "toolz"
  "toolz" doesn't have any dependencies
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  "tqdm" doesn't have any 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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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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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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1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
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2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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com.google.protobuf:protobuf-java

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org.checkerframework:checker-qual

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io.perfmark:perfmark-api

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public interface Api
{
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com.google.auto.value:auto-value-annotations

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com.google.api.grpc:proto-google-analytics-data-v1alpha

com.google.api.grpc:proto-google-analytics-data-v1beta

com.google.guava:failureaccess

com.google.guava:listenablefuture

com.google.j2objc:j2objc-annotations

com.google.guava:guava

com.google.android:annotations

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com.google.http-client:google-http-client-gson

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*/  
public interface Api  
{  
void checkVersion1();  
}
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test data from <http://aspell.net/test/orig/batch0.tab>.

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org.apache.httpcomponents:httpcore

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org.threeten:threetenbp

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ch.qos.logback:logback-classic

ch.qos.logback:logback-core

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com.fasterxml.jackson.dataformat:jackson-dataformat-xml

com.fasterxml.jackson.dataformat:jackson-dataformat-yaml

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com.fasterxml.jackson.datatype:jackson-datatype-jsr310

com.fasterxml.jackson.module:jackson-module-parameter-names

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net.minidev:json-smart

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org.apache.logging.log4j:log4j-api

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FOURTH-PARTY DEPENDENCY #21 NAME : org.apache.tomcat.embed:tomcat-embed-el

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- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd - web-app\_3\_0.xsd
- web-common\_3\_0.xsd - web-fragment\_3\_0.xsd
- javaee\_7.xsd - javaee\_web\_services\_1\_4.xsd
- javaee\_web\_services\_client\_1\_4.xsd
- jsp\_2\_3.xsd - web-app\_3\_1.xsd
- web-common\_3\_1.xsd
- web-fragment\_3\_1.xsd
- javaee\_8.xsd - web-app\_4\_0.xsd
- web-common\_4\_0.xsd
- web-fragment\_4\_0.xsd may be obtained from:

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org.springframework:spring-aop

org.springframework:spring-beans

org.springframework:spring-context

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org.checkerframework:checker-compat-qual

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Other developers who have contributed code are:

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## hibernate-core, version 6.1.7 Final

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## hibernate-ehcache, version 4.4.16

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## hibernate-entymanager, version 5.6.14

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niklasvh/html2canvas 1.4.0

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-- text-segmentation  
-- utrie  
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css-line-break

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base64-arraybuffer

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text-segmentation

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utrie

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## HTTP Signatures Java Client, version 1.8

Tomitribe

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```

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for container/openejb-core/src/test/java/org/apache/openejb/  
DependencyVisitor.java:

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## http2-server, version 9.4.53.v20231009

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Third Party Dependency: org.eclipse.jetty.http2:http2-server

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

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

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- \* java.sun.security.ssl

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- \* org.ow2.asm:asm-commons
- \* org.ow2.asm:asm

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- \* org.apache.taglibs:taglibs-standard-spec
- \* org.apache.taglibs:taglibs-standard-impl

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- \* org.apache.tomcat:tomcat-el-api
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- \* org.apache.tomcat:tomcat-api
- \* org.apache.tomcat:tomcat-util-scan
- \* org.apache.tomcat:tomcat-util
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- \* org.apache.tomcat:tomcat-jasper-el
- \* org.apache.tomcat:tomcat-el-api



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\* org.eclipse.jetty.toolchain:jetty-schemas

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org.eclipse.jetty:jetty-util
org.eclipse.jetty:jetty-http
org.eclipse.jetty:jetty-io
org.eclipse.jetty:jetty-server
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Jakarta Activation API (JAF) (jakarta.activation:jakarta.activation-api)

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## ## Source Code

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- \* <https://github.com/eclipse-ee4j/servlet-api>
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org.slf4j:slf4j-api

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//org.conscrypt:conscrypt-openjdk-uber:jar:2.5.2
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3. slf4jApi: 'org.slf4j:slf4j-api

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```
jsonschema 4.5.1 has dependencies on following libraries:
  jsonschema needs "attrs"
    "attrs" doesn't have any dependencies
  jsonschema needs "importlib-resources"
    "importlib-resources" needs "zip"
    "zip" doesn't have any dependencies
  jsonschema needs "pyrsistent"
    "pyrsistent" doesn't have any dependencies
```

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```
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4th party dependencies

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@babel/runtime

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

<https://github.com/babel/babel.git>

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regenerator-runtime

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atob

<https://git.coolaj86.com/coolaj86/atob.js.git>

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btoa

<https://git.coolaj86.com/coolaj86/btoa.js.git>

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fflate

<https://github.com/101arrowz/fflate>

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core-js

<https://github.com/zloirock/core-js>

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css-line-break  
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base64-arraybuffer

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text-segmentation

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3rd party dependencies under src/libs  
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AtobBtoa.js - see "External 3rd party dependencies" above  
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File Saver - Version info NA  
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JPEGEncoder - Version info NA (BSD license)  
<https://github.com/mikechambers/as3corelib>  
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//
// omggif is a JavaScript implementation of a GIF 89a encoder and decoder,

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// including animation and compression. It does not rely on any specific
// underlying system, so should run in the browser, Node, or Plask.
```

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rgbcolor.js -
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 * A class to parse color values
 * @author Stoyan Stefanov
 * {@link http://www.phpied.com/rgb-color-parser-in-javascript/}
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 */
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lie

<https://github.com/calvinmetcalf/lie/releases/tag/v3.3.0>

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immediate

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set-immediate-shim

<https://github.com/sindresorhus/set-immediate-shim>

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readable-stream

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inherits

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core-util-is

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isarray

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process-nexttick-args

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dragon4

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

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

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The ziggurat methods were derived from Julia.

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## Logstash Logback Encoder, version 7.2

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logstash-logback-encoder

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```

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  - \* <https://github.com/JCTools/JCTools>

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  - \* <https://github.com/ning/compress>

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\* <https://github.com/jpountz/lz4-java>

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* https://github.com/takari/maven-wrapper
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* HOMEPAGE:
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* https://github.com/hyperxpro/Brotli4j
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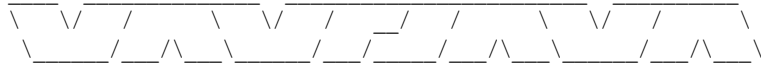
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io.vavr:vavr-match
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jakarta.annotation:jakarta.annotation-api
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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

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

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numba 0.57.0 has dependencies on following libraries:

```
numba needs "importlib-metadata"
```

```
"importlib-metadata" needs "zip"
"zip" doesn't have any dependencies
numba needs "llvmlite"
"llvmlite" doesn't have any dependencies
numba needs "numpy"
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below.
```

---

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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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Changes to original Implementation:

ADD methods:

Optional<IOException> getException()  
to get the exception stored by ICSVWriter, AbstractCSVWriter or CSVWriter

void resetError()  
to reset the exception stored by ICSVWriter, AbstractCSVWriter or CSVWriter

ADD Test-Cases:

getExceptionReturnsException()  
getExceptionReturnsExceptionUsingPrintWriter()  
resetException()  
resetError()

to test the added methods

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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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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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[2] <http://www.ecma-international.org/memento/Ecmabylaws.htm>

[3] <http://www.microsoft.com/openspecifications/en/us/programs/osp/default.aspx>

[4] <http://www.ecma-international.org/publications/files/ECMA-ST/Ecma%20PATENT/Patent%20statements%20ok/ECMA-376%20Edition%20%20Microsoft%20Patent%20Declaration.pdf>

[5] <http://www.ecma-international.org/publications/files/ECMA-ST/Ecma%20PATENT/Patent%20statements%20ok/ECMA-376%20Adobe%20Patent%20Declaration.pdf>

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pako

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readable-stream

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core-util-is

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process-nexttick-args

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safe-buffer

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setimmediate

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## Prophet, version 1.1.4

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license_type: MIT
license_text:
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```

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prophet 1.1.4 has dependencies on following libraries:

```
prophet needs "cmdstanpy"
  "cmdstanpy" needs "numpy"
    "numpy" embedded/bundled libraries are listed at the bottom
  "cmdstanpy" needs "pandas"
    "pandas" needs "numpy"
      "numpy" embedded/bundled libraries are listed at the bottom
    "pandas" needs "python-dateutil"
      "python-dateutil" needs "six"
        "six" doesn't have any dependencies
    "pandas" needs "pytz"
      "pytz" doesn't have any dependencies
    "pandas" needs "tzdata"
      "tzdata" doesn't have any dependencies
  "cmdstanpy" needs "tqdm"
    "tqdm" doesn't have any dependencies
prophet needs "convertdate"
  "convertdate" needs "PyMeeus"
    "PyMeeus" doesn't have any dependencies
```

```

prophet needs "holidays"
  "holidays" needs "python-dateutil"
    "python-dateutil" needs "six"
      "six" doesn't have any dependencies
prophet needs "importlib-resources"
  "importlib-resources" needs "zip"
    "zip" doesn't have any dependencies
prophet needs "LunarCalendar"
  "LunarCalendar" needs "ephem"
    "ephem" doesn't have any dependencies
  "LunarCalendar" needs "python-dateutil"
    "python-dateutil" needs "six"
      "six" doesn't have any dependencies
  "LunarCalendar" needs "pytz"
    "pytz" doesn't have any dependencies
prophet needs "matplotlib"
  "matplotlib" needs "contourpy"
    "contourpy" needs "numpy"
      "numpy" embedded/bundled libraries are listed at the bottom
  "matplotlib" needs "cycler"
    "cycler" doesn't have any dependencies
  "matplotlib" needs "fonttools"
    "fonttools" doesn't have any dependencies
  "matplotlib" needs "importlib-resources"
    "importlib-resources" needs "zip"
      "zip" doesn't have any dependencies
  "matplotlib" needs "kiwisolver"
    "kiwisolver" doesn't have any dependencies
  "matplotlib" needs "numpy"
    "numpy" doesn't have any dependencies
  "matplotlib" needs "packaging"
    "packaging" doesn't have any dependencies
  "matplotlib" needs "Pillow"
    "Pillow" doesn't have any dependencies
  "matplotlib" needs "pyparsing"
    "pyparsing" doesn't have any dependencies
  "matplotlib" needs "python-dateutil"
    "python-dateutil" needs "six"
      "six" doesn't have any dependencies
  "matplotlib" need "Agg" and "ttconv" embedded whose licenses are below.
prophet needs "numpy"
  "numpy" embedded/bundled libraries are listed at the bottom
prophet needs "pandas"
  "pandas" needs "numpy"
    "numpy" embedded/bundled libraries are listed at the bottom
  "pandas" needs "python-dateutil"
    "python-dateutil" needs "six"
      "six" doesn't have any dependencies
  "pandas" needs "pytz"
    "pytz" doesn't have any dependencies
  "pandas" needs "tzdata"
    "tzdata" doesn't have any dependencies
prophet needs "python-dateutil"
  "python-dateutil" needs "six"
    "six" doesn't have any dependencies
prophet needs "tqdm"
  "tqdm" doesn't have any dependencies

```

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For license text, see <numpy/core/src/multiarray/dragon4.c>

Name: libdivide  
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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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---

```
package_name: holidays
license_type: MIT License
license_text:
Copyright (c) 2017-2023 <dr.prodigy.github@gmail.com>
Copyright (c) 2014-2017 <ryanssdev@icloud.com>
```

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```
package_name: importlib-resources
license_type: Apache Software License
license_text:
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license\_type: MIT License  
license\_text:

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package\_name: LunarCalendar  
license\_type: MIT License  
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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

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Chris Colbert began the Kiwi project in December 2013 in an effort to create a blisteringly fast UI constraint solver. Chris is still the project lead.

The Nucleic Development Team is the set of all contributors to the Nucleic project and its subprojects.

The core team that coordinates development on GitHub can be found here: <http://github.com/nucleic>. The current team consists of:

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com.mchange:c3p0  
com.mchange:mchange-commons-java  
org.slf4j-api

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# reactor-core, version 3.5.9

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4th party dependencies:

io.projectreactor:reactor-core:jar:3.5.9:compile

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5. hdr\_histogram - BSD 2-Clause

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5.hdr\_histogram

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## resilience4j-annotations, version 1.7.1



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## ruptures, version 1.1.8

### ENS Paris-Saclay, CNRS

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ruptures 1.1.8 has dependencies on following libraries:

```
ruptures needs "numpy"  
"numpy" doesn't have any dependencies
```

```
ruptures needs "scipy"
    "scipy" needs "numpy"
        "numpy" doesn't have any dependencies, exxcept for embedded software
whose licenses are below
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```

---

```
package_name: scipy
license_type: BSD 3-Clause License
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Name: LAPACK

Files: extra-dll\libopenb\*.dll

Description: bundled in OpenBLAS

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dragon4

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

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

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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Name: Faddeeva

Files: scipy/special/Faddeeva.\*

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Name: ampgo

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

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

Name: pybind11

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

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Name: L-BFGS-B

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

License of L-BFGS-B (Fortran code)

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

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#### References

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

"""

The Python wrapper

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Name: Biasedurn

----- Forwarded message -----  
From: Agner Fog <agner@agner.org>  
Date: Wed, Jul 22, 2020 at 8:54 PM  
Subject: Re: Add BiasedUrn to SciPy?

To: Matt Haberland <mhaberland@calpoly.edu>  
Cc: Warren Weckesser <warren.weckesser@gmail.com>

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

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

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

Best regards,  
Agner Fog

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

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

Thank you for considering it!

Matt

--

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

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Name: UNU.RAN

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unuran-1.8.1/Makefile.am
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unuran-1.8.1/acinclude.m4
unuran-1.8.1/aclocal.m4
unuran-1.8.1/autoconf/config.guess
unuran-1.8.1/autoconf/config.sub
unuran-1.8.1/autoconf/depcomp
unuran-1.8.1/autoconf/install-sh
unuran-1.8.1/autoconf/ltmain.sh
unuran-1.8.1/autoconf/mdate-sh
unuran-1.8.1/autoconf/missing
unuran-1.8.1/autogen.sh
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unuran-1.8.1/doc/figures/Makefile.in  
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unuran-1.8.1/doc/src/ref\_example2\_str.texi  
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unuran-1.8.1/tests/t\_pinv.c  
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unuran-1.8.1/tests/t\_utdr.c

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unuran-1.8.1/tests/t_utdr.conf
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unuran-1.8.1/src/methods/deprecated_vmt.c
unuran-1.8.1/src/methods/deprecated_vmt.h
unuran-1.8.1/src/methods/deprecated_vmt_struct.h
unuran-1.8.1/src/parser/stringparser_lists.ch.in

```

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

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

=====

```

This file was considerably changed for UNU.RAN.
As a consequence it has been renamed from "mconf.h" to
"cephes_source.h" to avoid confusion.

```

We were only interested in the files:

```

gamma.c
igamma.c
incbet.c
ndtr.c
ndtri.c

```

to use these files we needed the auxiliary files:

```

isnan.c
mtherr.c
polevl.c

```

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

The main changes are

- numeric constants (in cephes - const.c) are replaced by macros defined in this file (source\_mconf.h).
- We changed these constants using the constants provided by ANSI C in the math.h file.
- We changed also the definitions of MAXGAM (in incbet.c) and of MAXSTIR (in gamma.c).
- Everything concerning NANS and INFINITY was moved into isnan.c. (Also the defines to turn it off or on.)
- We have only tested this version with NAN and INFINITY turned off, but we have not changed anything concerning that question. So turning this support on should (could) work.

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

```

/*-----*/

/*          mconf.h
 *
 * Common include file for math routines
 *
 *
 * SYNOPSIS:
 *
 * #include "mconf.h"
 *
 *
 * DESCRIPTION:
 *
 * This file contains definitions for error codes that are
 * passed to the common error handling routine mtherr()
 * (which see).
 *
 * The file also includes a conditional assembly definition
 * for the type of computer arithmetic (IEEE, DEC, Motorola
 * IEEE, or UNKnown).
 *
 * For Digital Equipment PDP-11 and VAX computers, certain
 * IBM systems, and others that use numbers with a 56-bit
 * significand, the symbol DEC should be defined. In this
 * mode, most floating point constants are given as arrays
 * of octal integers to eliminate decimal to binary conversion
 * errors that might be introduced by the compiler.
 *
 * For little-endian computers, such as IBM PC, that follow the
 * IEEE Standard for Binary Floating Point Arithmetic (ANSI/IEEE
 * Std 754-1985), the symbol IBMPC should be defined. These
 * numbers have 53-bit significands. In this mode, constants
 * are provided as arrays of hexadecimal 16 bit integers.
 *
 * Big-endian IEEE format is denoted MIEEE. On some RISC
 * systems such as Sun SPARC, double precision constants
 * must be stored on 8-byte address boundaries. Since integer
 * arrays may be aligned differently, the MIEEE configuration
 * may fail on such machines.

```

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

Cephes Math Library Release 2.3: June, 1995  
Copyright 1984, 1987, 1989, 1995 by Stephen L. Moshier

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## scikit-learn, version 1.2.2

scikit-learn developers

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## scikit-learn, version 1.3.0

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scikit-learn

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Name: LAPACK

Files: extra-dll\libopenb\*.dll

Description: bundled in OpenBLAS

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

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tempita

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dragon4

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Name: SPLITMIX64

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Name: SFC64

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

<https://gist.github.com/imneme/flf7821f07cf76504a97f6537c818083>

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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: Random

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Name: nymby.core.ma

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

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

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

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

Best regards,  
Agner Fog

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

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

Matt

--

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

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Name: UNU.RAN  
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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  
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  
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unuran-1.8.1/tests/t\_distr\_cvec.c  
unuran-1.8.1/tests/t\_distr\_cvec.conf  
unuran-1.8.1/tests/t\_distr\_cvemp.c  
unuran-1.8.1/tests/t\_distr\_cvemp.conf  
unuran-1.8.1/tests/t\_distr\_cxtrans.c  
unuran-1.8.1/tests/t\_distr\_cxtrans.conf  
unuran-1.8.1/tests/t\_distr\_discr.c  
unuran-1.8.1/tests/t\_distr\_discr.conf



unuran-1.8.1/tests/t\_distr\_matr.c  
unuran-1.8.1/tests/t\_distr\_matr.conf  
unuran-1.8.1/tests/t\_dsrou.c  
unuran-1.8.1/tests/t\_dsrou.conf  
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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
unuran-1.8.1/tests/t_urng.c
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unuran-1.8.1/tests/t_utdr.c
unuran-1.8.1/tests/t_utdr.conf
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unuran-1.8.1/tests/t_util_matrix.conf
unuran-1.8.1/tests/t_vempk.c
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unuran-1.8.1/tests/t_x_gen.conf
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unuran-1.8.1/tests/test_StdDistr.m
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unuran-1.8.1/tests/test_functionparser.m
unuran-1.8.1/tests/testcounter.c
unuran-1.8.1/tests/testdistributions/Makefile.am
unuran-1.8.1/tests/testdistributions/Makefile.in
unuran-1.8.1/tests/testdistributions/c_sawtooth_contpdf.c
unuran-1.8.1/tests/testdistributions/c_sawtooth_discpdf.c
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unuran-1.8.1/tests/testdistributions/c_wo_logpdf.c
unuran-1.8.1/tests/testdistributions/testdistributions.h
unuran-1.8.1/tests/testdistributions/vc_cauchy_RoU_ball.c
unuran-1.8.1/tests/testdistributions/vc_special_correlations_ar1.c
unuran-1.8.1/tests/testdistributions/vc_special_correlations_constantrho.c
unuran-1.8.1/tests/testdistributions/vc_w_marginals.c
unuran-1.8.1/tests/testdistributions/vc_wo_logpdf.c
unuran-1.8.1/tests/testroutines.c
unuran-1.8.1/tests/testunuran.h
unuran-1.8.1/src/distr/deprecated_distr.c
unuran-1.8.1/src/distr/deprecated_distr.h
unuran-1.8.1/src/methods/deprecated_methods.c
unuran-1.8.1/src/methods/deprecated_methods.h
unuran-1.8.1/src/methods/deprecated_tdrwg.h
unuran-1.8.1/src/methods/deprecated_vmt.c
unuran-1.8.1/src/methods/deprecated_vmt.h
unuran-1.8.1/src/methods/deprecated_vmt_struct.h
unuran-1.8.1/src/parser/stringparser_lists.ch.in

```

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

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Name: OpenBLAS

Files: .libs/libopenb\*.so

Description: bundled as a dynamically linked library

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

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Name: LAPACK

Files: .libs/libopenb\*.so

Description: bundled in OpenBLAS

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

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

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

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

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

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

```

## scipy, version 1.10.1

SciPy developers

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## scikit-learn, version 1.2.2

scikit-learn developers

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# Snowflake JDBC Driver, version 3.13.30

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```
net.snowflake:snowflake-jdbc:jar
```

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/*
```

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```

```
*/
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```
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```

```
commons-codec:commons-codec
```

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Apache Commons Codec
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```
src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java
```

```
contains test data from http://aspell.net/test/orig/batch0.tab.
```

```
Copyright (C) 2002 Kevin Atkinson (kevina@gnu.org)
```

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```
io.netty:netty-common
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```
io.netty:netty-buffer
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```
Netty (io.netty:netty-*)
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```
 Copyright 2012,2021 The Netty Project
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Version 2.1, February 1999

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Fourth party dependencies

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org.springframework.boot:spring-boot-starter-data-redis
org.springframework.boot:spring-boot-starter
org.springframework.boot:spring-boot
org.springframework:spring-context
org.springframework:spring-expression
org.springframework.boot:spring-boot-autoconfigure
org.springframework.boot:spring-boot-starter-logging
ch.qos.logback:logback-classic
ch.qos.logback:logback-core
org.apache.logging.log4j
org.slf4j:jul-to-slf4j
jakarta.annotation:jakarta.annotation-api
org.yaml:snakeyaml
org.springframework.data:spring-data-redis
org.springframework.data:spring-data-keyvalue
org.springframework.data:spring-data-commons
org.springframework:spring-core
org.springframework:pring-beans
org.springframework:spring-tx
org.springframework:spring-beans
org.springframework:spring-oxm
org.springframework:spring-aop
org.springframework:spring-context-support
org.slf4j:slf4j-api
io.lettuce:lettuce-core
io.netty:netty-common
io.netty:netty-handler
io.netty:netty-resolver
io.netty:netty-buffer
io.netty:netty-transport-native-unix-common
io.netty:netty-codec
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org.springframework.boot:spring-boot-starter-data-redis
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org.apache.logging.log4j

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org.slf4j:jul-to-slf4j

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org.springframework.boot spring-boot
org.springframework.boot spring-boot-starter
org.springframework     spring-context
org.springframework     spring-expression
```

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org.springframework.boot:spring-boot-autoconfigure

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org.apache.logging.log4j:log4j-api

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org.slf4j:slf4j-api



org.slf4j:jul-to-slf4j

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com.fasterxml.jackson.datatype:jackson-datatype-jsr310  
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=====  
===== End License Reference [1]  
=====

## spring-boot-starter-parent, version 3.1.0

Pivotal, Inc.

```
=====
=====
Top Level component - org.springframework.boot:spring-boot-gradle-plugin
=====
=====
```

```
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Fourth party dependencies

```
org.springframework.boot:spring-boot-starter-parent:jar:3.1.0
org.springframework.boot:spring-boot-starter-jetty:jar:3.1.0:compile
org.springframework.boot:spring-boot-starter-web:jar:3.1.0:compile
org.springframework.boot:spring-boot-starter-jdbc:jar:3.1.0:compile
org.springframework.boot:spring-boot-starter-actuator:jar:3.1.0:compile
org.springframework.boot:spring-boot-starter-validation:jar:3.1.0:compile
org.springframework.boot:spring-boot-starter-test:jar:3.1.0
org.springframework.boot:spring-boot-starter-data-redis:jar:3.1.0:compile
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```

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4TH PARTY DEPENDENCY #02-org.springframework.boot:spring-boot-test-autoconfigure  
4TH PARTY DEPENDENCY #03-org.springframework:spring-test  
4TH PARTY DEPENDENCY #04-com.jayway.jsonpath:json-path  
4TH PARTY DEPENDENCY #05-jakarta.xml.bind:jakarta.xml.bind-api  
4TH PARTY DEPENDENCY #06-jakarta.activation:jakarta.activation-api  
4TH PARTY DEPENDENCY #07-org.assertj:assertj-core  
4TH PARTY DEPENDENCY #08-org.hamcrest:hamcrest  
4TH PARTY DEPENDENCY #09-org.junit.jupiter:junit-jupiter  
4TH PARTY DEPENDENCY #10-org.junit.jupiter:junit-jupiter-engine  
4TH PARTY DEPENDENCY #11-org.junit.platform:junit-platform-engine  
4TH PARTY DEPENDENCY #12-org.mockito:mockito-core  
4TH PARTY DEPENDENCY #13-org.mockito:mockito-junit-jupiter  
4TH PARTY DEPENDENCY #14-net.bytebuddy:byte-buddy  
4TH PARTY DEPENDENCY #15-net.bytebuddy:byte-buddy-agent  
4TH PARTY DEPENDENCY #16-org.objenesis:objenesis  
4TH PARTY DEPENDENCY #17-org.skyscreamer:jsonassert  
4TH PARTY DEPENDENCY #18-com.vaadin.external.google:android-json  
4TH PARTY DEPENDENCY #19-org.xmlunit:xmlunit-core  
4TH PARTY DEPENDENCY #20-org.springframework:spring-core  
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4TH PARTY DEPENDENCY #22-org.springframework.boot:spring-boot:  
4TH PARTY DEPENDENCY #23-org.springframework:spring-context:  
4TH PARTY DEPENDENCY #24-org.springframework:spring-aop:  
4TH PARTY DEPENDENCY #25-org.springframework:spring-beans:  
4TH PARTY DEPENDENCY #26-org.springframework:spring-expression:  
4TH PARTY DEPENDENCY #27-org.springframework.boot:spring-boot-autoconfigure:  
4TH PARTY DEPENDENCY #28-org.springframework.boot:spring-boot-starter-logging:  
4TH PARTY DEPENDENCY #29-ch.qos.logback:logback-classic:  
4TH PARTY DEPENDENCY #30-ch.qos.logback:logback-core:  
4TH PARTY DEPENDENCY #31-org.apache.logging.log4j:log4j-to-slf4j:  
4TH PARTY DEPENDENCY #32-org.apache.logging.log4j:log4j-api:  
4TH PARTY DEPENDENCY #33-org.slf4j:jul-to-slf4j:  
4TH PARTY DEPENDENCY #34-jakarta.annotation:jakarta.annotation-api  
4TH PARTY DEPENDENCY #35-org.yaml:snakeyaml:  
4TH PARTY DEPENDENCY #36-net.minidev:json-smart:  
4TH PARTY DEPENDENCY #37-net.minidev:accessors-smart:  
4TH PARTY DEPENDENCY #38-org.ow2.asm:asm:  
4TH PARTY DEPENDENCY #39-org.slf4j:slf4j-api:  
4TH PARTY DEPENDENCY #40-org.junit.jupiter:junit-jupiter-api:  
4TH PARTY DEPENDENCY #41-org.opentest4j:opentest4j:  
4TH PARTY DEPENDENCY #42-org.junit.platform:junit-platform-commons:  
4TH PARTY DEPENDENCY #43-org.apiguardian:apiguardian-api:  
4TH PARTY DEPENDENCY #44-org.junit.jupiter:junit-jupiter-params:  
4TH PARTY DEPENDENCY #45-org.springframework:spring-jcl

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4TH PARTY DEPENDENCY #04-com.jayway.jsonpath:json-path

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4TH PARTY DEPENDENCY #14-net.bytebuddy:byte-buddy

4TH PARTY DEPENDENCY #15-net.bytebuddy:byte-buddy-agent

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4TH PARTY DEPENDENCY #42-org.junit.platform:junit-platform-commons:  
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4TH PARTY DEPENDENCY #21-org.springframework.boot:spring-boot-starter
4TH PARTY DEPENDENCY #22-org.springframework.boot:spring-boot:
4TH PARTY DEPENDENCY #27-org.springframework.boot:spring-boot-autoconfigure:
4TH PARTY DEPENDENCY #28-org.springframework.boot:spring-boot-starter-logging:
4TH PARTY DEPENDENCY #01-org.springframework.boot:spring-boot-test
4TH PARTY DEPENDENCY #02-org.springframework.boot:spring-boot-test-autoconfigure
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4TH PARTY DEPENDENCY #24-org.springframework:spring-aop:
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4TH PARTY DEPENDENCY #26-org.springframework:spring-expression:
4TH PARTY DEPENDENCY #45-org.springframework:spring-jcl:
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4TH PARTY DEPENDENCY #29-ch.qos.logback:logback-classic:
4TH PARTY DEPENDENCY #30-ch.qos.logback:logback-core:
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- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd

- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
- web-fragment\_3\_0.xsd
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- javaee\_web\_services\_1\_4.xsd
- javaee\_web\_services\_client\_1\_4.xsd
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- web-common\_3\_1.xsd
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- web-app\_4\_0.xsd
- web-common\_4\_0.xsd
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* [The API repository] (https://github.com/eclipse-ee4j/beanvalidation-api)
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for JSON written by Robert Fischer.  
<https://github.com/RobertFischer/json-parser>

For portions of the Tomcat JNI OpenSSL API and the OpenSSL JSSE integration  
The org.apache.tomcat.jni and the org.apache.tomcat.net.openssl packages  
are derivative work originating from the Netty project and the finagle-native  
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The original XML Schemas for Java EE Deployment Descriptors:

- javaee\_5.xsd
- javaee\_web\_services\_1\_2.xsd
- javaee\_web\_services\_client\_1\_2.xsd
- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
- web-fragment\_3\_0.xsd



- javaee\_7.xsd
- javaee\_web\_services\_1\_4.xsd
- javaee\_web\_services\_client\_1\_4.xsd
- jsp\_2\_3.xsd
- web-app\_3\_1.xsd
- web-common\_3\_1.xsd
- web-fragment\_3\_1.xsd
- javaee\_8.xsd
- web-app\_4\_0.xsd
- web-common\_4\_0.xsd
- web-fragment\_4\_0.xsd

may be obtained from:

<http://www.oracle.com/webfolder/technetwork/jsc/xml/ns/javaee/index.html>

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- \* HOMEPAGE:
- \* <https://github.com/hyperxpro/Brotli4j>

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- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
- web-fragment\_3\_0.xsd
- javaee\_7.xsd
- javaee\_web\_services\_1\_4.xsd
- javaee\_web\_services\_client\_1\_4.xsd
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- web-app\_3\_1.xsd
- web-common\_3\_1.xsd
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org.slf4j:jul-to-slf4j

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- web-commonn\_5\_0.xsd
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Version 2.1, February 1999

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```
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  "absl-py" doesn't have any dependencies
"tensorflow" needs "astunparse"
  "astunparse" needs "six"
    "six" doesn't have any dependencies
  "astunparse" needs "wheel"
    "wheel" doesn't have any dependencies
"tensorflow" needs "flatbuffers"
  "flatbuffers" doesn't have any dependencies
"tensorflow" needs "gast"
  "gast" doesn't have any dependencies
"tensorflow" needs "google-pasta"
  "google-pasta" needs "six"
    "six" doesn't have any dependencies
"tensorflow" needs "grpcio"
  "grpcio" doesn't have any dependencies
"tensorflow" needs "h5py"
  "h5py" needs "numpy"
    "numpy" doesn't have any dependencies
"tensorflow" needs "keras"
  "keras" doesn't have any dependencies
"tensorflow" needs "libclang"
  "libclang" doesn't have any dependencies
"tensorflow" needs "numpy"
  "numpy" doesn't have any dependencies
"tensorflow" needs "opt-einsum"
  "opt-einsum" needs "numpy"
    "numpy" doesn't have any dependencies
"tensorflow" needs "packaging"
  "packaging" doesn't have any dependencies
"tensorflow" needs "protobuf"
  "protobuf" doesn't have any dependencies
"tensorflow" needs "setuptools"
  "setuptools" doesn't have any dependencies
"tensorflow" needs "six"
  "six" doesn't have any dependencies
"tensorflow" needs "tensorboard"
  "tensorboard" needs "absl-py"
    "absl-py" doesn't have any dependencies
  "tensorboard" needs "google-auth"
    "google-auth" needs "cachetools"
      "cachetools" doesn't have any dependencies
    "google-auth" needs "pyasn1-modules"
      "pyasn1-modules" needs "pyasn1"
        "pyasn1" doesn't have any dependencies
    "google-auth" needs "rsa"
      "rsa" needs "pyasn1"
        "pyasn1" doesn't have any dependencies
```

```

"tensorboard" needs "google-auth-oauthlib"
  "google-auth-oauthlib" needs "google-auth"
    "google-auth" needs "cachetools"
      "cachetools" doesn't have any dependencies
    "google-auth" needs "pyasn1-modules"
      "pyasn1-modules" needs "pyasn1"
        "pyasn1" doesn't have any dependencies
      "google-auth" needs "rsa"
        "rsa" needs "pyasn1"
          "pyasn1" doesn't have any dependencies
    "google-auth-oauthlib" needs "requests-oauthlib"
      "requests-oauthlib" needs "oauthlib"
        "oauthlib" doesn't have any dependencies
      "requests-oauthlib" needs "requests"
        "requests" needs "certifi"
          "certifi" doesn't have any dependencies
        "requests" needs "charset-normalizer"
          "charset-normalizer" doesn't have any dependencies
        "requests" needs "idna"
          "idna" doesn't have any dependencies
        "requests" needs "urllib3"
          "urllib3" doesn't have any dependencies
"tensorboard" needs "grpcio"
  "grpcio" doesn't have any dependencies
"tensorboard" needs "Markdown"
  "Markdown" needs "importlib-metadata"
    "importlib-metadata" needs "zipp"
      "zipp" doesn't have any dependencies
"tensorboard" needs "numpy"
  "numpy" doesn't have any dependencies
"tensorboard" needs "protobuf"
  "protobuf" doesn't have any dependencies
"tensorboard" needs "requests"
  "requests" needs "certifi"
    "certifi" doesn't have any dependencies
  "requests" needs "charset-normalizer"
    "charset-normalizer" doesn't have any dependencies
  "requests" needs "idna"
    "idna" doesn't have any dependencies
  "requests" needs "urllib3"
    "urllib3" doesn't have any dependencies
"tensorboard" needs "setuptools"
  "setuptools" doesn't have any dependencies
"tensorboard" needs "tensorboard-data-server"
  "tensorboard-data-server" doesn't have any dependencies
"tensorboard" needs "werkzeug"
  "werkzeug" needs "MarkupSafe"
    "MarkupSafe" doesn't have any dependencies
"tensorboard" needs "wheel"
  "wheel" doesn't have any dependencies
"tensorflow" needs "tensorflow-estimator"
  "tensorflow-estimator" doesn't have any dependencies
"tensorflow" needs "termcolor"
  "termcolor" doesn't have any dependencies
"tensorflow" needs "typing-extensions"
  "typing-extensions" doesn't have any dependencies
"tensorflow" needs "wrapt"
  "wrapt" doesn't have any dependencies

```

"tensorflow" needs "tensorflow-io-gcs-filesystem"  
"tensorflow-io-gcs-filesystem" doesn't have any 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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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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```
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license_type: Mozilla Public License 2.0 (MPL 2.0)
notices_and_license_text:
This package contains a modified version of ca-bundle.crt:

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

Certificate data from Mozilla as of: Thu Nov  3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/
certdata.txt
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCertificateFile.#

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

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package\_name: charset-normalizer  
license\_type: MIT License  
notices\_and\_license\_text:  
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notices\_and\_license\_text:  
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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <https://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

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

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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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## Tensorflow Python, version 2.12.0

### The TensorFlow Authors

```
package_name: tensorflow  
license_type: Apache Software License  
license_text:
```

```
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    Version 2.0, January 2004  
    http://www.apache.org/licenses/
```

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---

tensorflow 2.12.0 has dependencies on following libraries:

```
tensorflow needs "absl-py"  
  "absl-py" doesn't have any dependencies  
tensorflow needs "astunparse"  
  "astunparse" needs "six"  
    "six" doesn't have any dependencies  
  "astunparse" needs "wheel"  
    "wheel" doesn't have any dependencies  
tensorflow needs "flatbuffers"  
  "flatbuffers" doesn't have any dependencies  
tensorflow needs "gast"  
  "gast" doesn't have any dependencies  
tensorflow needs "google-pasta"  
  "google-pasta" needs "six"  
    "six" doesn't have any dependencies  
tensorflow needs "grpcio"  
  "grpcio" doesn't have any dependencies  
tensorflow needs "h5py"  
  "h5py" needs "numpy"  
    "numpy" dependencies are listed at the bottom  
tensorflow needs "jax"  
  "jax" needs "importlib-metadata"  
    "importlib-metadata" needs "zipper"  
      "zipper" doesn't have any dependencies  
  "jax" needs "ml-dtypes"  
    "ml-dtypes" needs "numpy"  
      "numpy" dependencies are listed at the bottom  
  "jax" needs "numpy"  
    "numpy" dependencies are listed at the bottom  
  "jax" needs "opt-einsum"  
    "opt-einsum" needs "numpy"  
      "numpy" dependencies are listed at the bottom  
  "jax" needs "scipy"  
    "scipy" needs "numpy"  
      "numpy" dependencies are listed at the bottom  
tensorflow needs "keras"  
  "keras" doesn't have any dependencies  
tensorflow needs "libclang"  
  "libclang" doesn't have any dependencies  
tensorflow needs "numpy"
```

```

"numpy" dependencies are listed at the bottom
tensorflow needs "opt-einsum"
  "opt-einsum" needs "numpy"
    "numpy" dependencies are listed at the bottom
tensorflow needs "packaging"
  "packaging" doesn't have any dependencies
tensorflow needs "protobuf"
  "protobuf" doesn't have any dependencies
tensorflow needs "setuptools"
  "setuptools" doesn't have any dependencies
tensorflow needs "six"
  "six" doesn't have any dependencies
tensorflow needs "tensorboard"
  "tensorboard" needs "absl-py"
    "absl-py" doesn't have any dependencies
tensorflow needs "google-auth"
  "google-auth" needs "cachetools"
    "cachetools" doesn't have any dependencies
  "google-auth" needs "pyasn1-modules"
    "pyasn1-modules" needs "pyasn1"
      "pyasn1" doesn't have any dependencies
  "google-auth" needs "rsa"
    "rsa" needs "pyasn1"
      "pyasn1" doesn't have any dependencies
  "google-auth" needs "six"
    "six" doesn't have any dependencies
  "google-auth" needs "urllib3"
    "urllib3" doesn't have any dependencies
tensorflow needs "google-auth-oauthlib"
  "google-auth-oauthlib" needs "google-auth"
    "google-auth" needs "cachetools"
      "cachetools" doesn't have any dependencies
    "google-auth" needs "pyasn1-modules"
      "pyasn1-modules" needs "pyasn1"
        "pyasn1" doesn't have any dependencies
    "google-auth" needs "rsa"
      "rsa" needs "pyasn1"
        "pyasn1" doesn't have any dependencies
    "google-auth" needs "six"
      "six" doesn't have any dependencies
    "google-auth" needs "urllib3"
      "urllib3" doesn't have any dependencies
tensorflow needs "requests-oauthlib"
  "requests-oauthlib" needs "oauthlib"
    "oauthlib" doesn't have any dependencies
  "requests-oauthlib" needs "requests"
    "requests" needs "certifi"
      "certifi" doesn't have any dependencies
    "requests" needs "charset-normalizer"
      "charset-normalizer" doesn't have any dependencies
    "requests" needs "idna"
      "idna" doesn't have any dependencies
    "requests" needs "urllib3"
      "urllib3" doesn't have any dependencies
tensorflow needs "grpcio"
  "grpcio" doesn't have any dependencies
tensorflow needs "Markdown"
  "Markdown" needs "importlib-metadata"

```

```
"importlib-metadata" needs "zipp"
  "zipp" doesn't have any dependencies
"tensorboard" needs "numpy"
  "numpy" dependencies are listed at the bottom
"tensorboard" needs "protobuf"
  "protobuf" doesn't have any dependencies
"tensorboard" needs "requests"
  "requests" needs "certifi"
    "certifi" doesn't have any dependencies
  "requests" needs "charset-normalizer"
    "charset-normalizer" doesn't have any dependencies
  "requests" needs "idna"
    "idna" doesn't have any dependencies
  "requests" needs "urllib3"
    "urllib3" doesn't have any dependencies
"tensorboard" needs "setuptools"
  "setuptools" doesn't have any dependencies
"tensorboard" needs "tensorboard-data-server"
  "tensorboard-data-server" doesn't have any dependencies
"tensorboard" needs "Werkzeug"
  "Werkzeug" needs "MarkupSafe"
    "MarkupSafe" doesn't have any dependencies
"tensorboard" needs "wheel"
  "wheel" doesn't have any dependencies
tensorflow needs "tensorflow-estimator"
  "tensorflow-estimator" doesn't have any dependencies
tensorflow needs "tensorflow-io-gcs-filesystem"
  "tensorflow-io-gcs-filesystem" doesn't have any dependencies
tensorflow needs "termcolor"
  "termcolor" doesn't have any dependencies
tensorflow needs "typing-extensions"
  "typing-extensions" doesn't have any dependencies
tensorflow needs "wrapt"
  "wrapt" doesn't have any dependencies
```

---

---

```
package_name: absl-py
license_type: Apache Software License
license_text:
```

```
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Version 2.0, January 2004
http://www.apache.org/licenses/
```

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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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- \* 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.
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Name: `py pocketfft`

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Name: `uarray`

Files: `scipy/_lib/uarray/*`

License: 3-Clause BSD

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

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Name: HiGHS

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Name: Boost

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Name: Biasedurn

----- Forwarded message -----  
From: Agner Fog <agner@agner.org>  
Date: Wed, Jul 22, 2020 at 8:54 PM  
Subject: Re: Add BiasedUrn to SciPy?  
To: Matt Haberland <mhaberland@calpoly.edu>  
Cc: Warren Weckesser <warren.weckesser@gmail.com>

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

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

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

Best regards,

Agner Fog

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

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

Thank you for considering it!

Matt

--

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

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Name: UNU.RAN



Permission was granted on 23 March 2021 by Josef Leydold (josef.leydold@wu.ac.at) and Wolfgang Hoermann (hormannw@bound.edu.tr) to use the UNU.RAN code excluding the uniform random number generator in src/uniform/mrg31k3p.c (copyright by Renee Touzin) under the BSD licence. The following files have been removed from the original library:

```
unuran-1.8.1/COPYING
unuran-1.8.1/INSTALL
unuran-1.8.1/Makefile.am
unuran-1.8.1/Makefile.in
unuran-1.8.1/NEWS
unuran-1.8.1/UPGRADE
unuran-1.8.1/acinclude.m4
unuran-1.8.1/aclocal.m4
unuran-1.8.1/autoconf/config.guess
unuran-1.8.1/autoconf/config.sub
unuran-1.8.1/autoconf/depcomp
unuran-1.8.1/autoconf/install-sh
unuran-1.8.1/autoconf/ltmain.sh
unuran-1.8.1/autoconf/mdate-sh
unuran-1.8.1/autoconf/missing
unuran-1.8.1/autogen.sh
unuran-1.8.1/configure
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unuran-1.8.1/doc/Makefile.in
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unuran-1.8.1/tests/t\_unif.conf  
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unuran-1.8.1/tests/t\_unur\_error.conf  
unuran-1.8.1/tests/t\_unur\_tests.c  
unuran-1.8.1/tests/t\_unur\_tests.conf  
unuran-1.8.1/tests/t\_urng.c  
unuran-1.8.1/tests/t\_urng.conf  
unuran-1.8.1/tests/t\_utdr.c  
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unuran-1.8.1/tests/t\_vempk.c  
unuran-1.8.1/tests/t\_vempk.conf  
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unuran-1.8.1/tests/testcounter.c  
unuran-1.8.1/tests/testdistributions/Makefile.am  
unuran-1.8.1/tests/testdistributions/Makefile.in  
unuran-1.8.1/tests/testdistributions/c\_sawtooth\_contpdf.c  
unuran-1.8.1/tests/testdistributions/c\_sawtooth\_discpdf.c  
unuran-1.8.1/tests/testdistributions/c\_w\_pdf\_from\_logpdf.c  
unuran-1.8.1/tests/testdistributions/c\_with\_multiple\_of\_pdf.c  
unuran-1.8.1/tests/testdistributions/c\_wo\_logpdf.c  
unuran-1.8.1/tests/testdistributions/testdistributions.h  
unuran-1.8.1/tests/testdistributions/vc\_cauchy\_RoU\_ball.c  
unuran-1.8.1/tests/testdistributions/vc\_special\_correlations\_ar1.c  
unuran-1.8.1/tests/testdistributions/vc\_special\_correlations\_constantrho.c  
unuran-1.8.1/tests/testdistributions/vc\_w\_marginals.c  
unuran-1.8.1/tests/testdistributions/vc\_wo\_logpdf.c  
unuran-1.8.1/tests/testroutines.c  
unuran-1.8.1/tests/testunuran.h  
unuran-1.8.1/src/distr/deprecated\_distr.c  
unuran-1.8.1/src/distr/deprecated\_distr.h

```
unuran-1.8.1/src/methods/deprecated_methods.c
unuran-1.8.1/src/methods/deprecated_methods.h
unuran-1.8.1/src/methods/deprecated_tdrwg.h
unuran-1.8.1/src/methods/deprecated_vmt.c
unuran-1.8.1/src/methods/deprecated_vmt.h
unuran-1.8.1/src/methods/deprecated_vmt_struct.h
unuran-1.8.1/src/parser/stringparser_lists.ch.in
```

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

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

=====

This file was considerably changed for UNU.RAN.  
As a consequence it has been renamed from "mconf.h" to  
"cephes\_source.h" to avoid confusion.

We were only interested in the files:

```
gamma.c
igamma.c
incbet.c
ndtr.c
ndtri.c
```

to use these files we needed the auxiliary files:

```
isnan.c
mtherr.c
polevl.c
```

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

The main changes are

numeric constants (in cephес - const.c) are replaced  
by macros defined in this file (source\_mconf.h).

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

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

Everything concerning NANS and INFINITY was moved into isnan.c.  
(Also the defines to turn it off or on.)

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

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

/\*-----\*/

```
/*          mconf.h
 *
 * Common include file for math routines
 *
 *
 * SYNOPSIS:
 *
 * #include "mconf.h"
 *
 *
 * DESCRIPTION:
```

```

*
* This file contains definitions for error codes that are
* passed to the common error handling routine mtherr()
* (which see).
*
* The file also includes a conditional assembly definition
* for the type of computer arithmetic (IEEE, DEC, Motorola
* IEEE, or UNKnown).
*
* For Digital Equipment PDP-11 and VAX computers, certain
* IBM systems, and others that use numbers with a 56-bit
* significand, the symbol DEC should be defined. In this
* mode, most floating point constants are given as arrays
* of octal integers to eliminate decimal to binary conversion
* errors that might be introduced by the compiler.
*
* For little-endian computers, such as IBM PC, that follow the
* IEEE Standard for Binary Floating Point Arithmetic (ANSI/IEEE
* Std 754-1985), the symbol IBMPC should be defined. These
* numbers have 53-bit significands. In this mode, constants
* are provided as arrays of hexadecimal 16 bit integers.
*
* Big-endian IEEE format is denoted MIEEE. On some RISC
* systems such as Sun SPARC, double precision constants
* must be stored on 8-byte address boundaries. Since integer
* arrays may be aligned differently, the MIEEE configuration
* may fail on such machines.
*
* To accommodate other types of computer arithmetic, all
* constants are also provided in a normal decimal radix
* which one can hope are correctly converted to a suitable
* format by the available C language compiler. To invoke
* this mode, define the symbol UNK.
*
* An important difference among these modes is a predefined
* set of machine arithmetic constants for each. The numbers
* MACHEP (the machine roundoff error), MAXNUM (largest number
* represented), and several other parameters are preset by
* the configuration symbol. Check the file const.c to
* ensure that these values are correct for your computer.
*
* Configurations NANS, INFINITIES, MINUSZERO, and DENORMAL
* may fail on many systems. Verify that they are supposed
* to work on your computer.
*/

```

Cephes Math Library Release 2.3: June, 1995  
 Copyright 1984, 1987, 1989, 1995 by Stephen L. Moshier

-----  
 -----

```

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license_type: Apache Software License
license_text:

```

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```

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```
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license_text:
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```

```
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```

```
Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
```

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

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

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

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
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1.6.1	1.6	2001	CNRI	yes (2)
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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
2.1.2	2.1.1	2002	PSF	yes
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```
tensorflow-hub needs "protobuf"  
"protobuf" doesn't have any dependencies
```

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tensorflow-hub needs "numpy"  
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Availability: <https://github.com/xianyi/OpenBLAS/>

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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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"""

This module uses ctypes to bind a whole bunch of functions and constants from SecureTransport. The goal here is to provide the low-level API to SecureTransport. These are essentially the C-level functions and constants, and they're pretty gross to work with.

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Tatu Saloranta

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