Oracle® Communications

Network Analytics Suite Licensing Information User Manual

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Oracle Communications Network Analytics Suite Licensing Information User Manual, Release 25.2.100

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Preface

- Documentation Accessibility
- Diversity and Inclusion
- Conventions

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Oracle is fully committed to diversity and inclusion. Oracle respects and values having a diverse workforce that increases thought leadership and innovation. As part of our initiative to build a more inclusive culture that positively impacts our employees, customers, and partners, we are working to remove insensitive terms from our products and documentation. We are also mindful of the necessity to maintain compatibility with our customers' existing technologies and the need to ensure continuity of service as Oracle's offerings and industry standards evolve. Because of these technical constraints, our effort to remove insensitive terms is ongoing and will take time and external cooperation.

Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
italic	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
`monospace`	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

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Introduction

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Licensing Information

Refer to the table below for information on:

- Description of Product Editions and Permitted Features
- Prerequisite Products
- Entitled Products and Restricted Use Licenses

2.1 Data Director Licensing Information

Refer to the table below for information on:

- Description of Product Editions and Permitted Features
- Prerequisite Products
- Entitled Products and Restricted Use Licenses

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Table 2-1 Licensing Information

Product	Sub Product	Licensing Information
Oracle Communications Network Analytics Data Director	Oracle Communications Network Analytics Data Director, Service Communication Proxy Data Feed	**Description**: Data Director is a product within the Oracle Communications Network Analytics Suite. It collects and aggregates the 5G SBI network traffic mirrored from Service Communication Proxy (SCP) network function and delivers the enriched traffic to third-party monitoring or probe tools for service monitoring, assurance, or analytics purposes. Data Director maintains e2e security of SBI messages and delivers the data through standardized interfaces. Data Director also supports Non-Oracle Service Communication Proxy, which follows the interface specification provided in the Oracle Communications Network Analytics Data Director Outbound Interface Specification Guide. **Prerequisites**: The following license is a prerequisite for Oracle Communications Network Analytics Data Director, Service Communication Proxy Data Feed. This prerequisite is applicable only to Oracle Communications Cloud Native Core, Service Communication Proxy. • Oracle Communications Cloud Native Core, Service Communication Proxy - 25K Active Subscribers. **Entitled Products and Restricted Use Licenses**: None **Counting Mechanism**: The Data Director counts network-wide messages per second as it processes them.

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Table 2-1 (Cont.) Licensing Information

Product	Sub Product	Licensing Information
Oracle Communications Network Analytics Data Director	Oracle Communications Network Analytics Data Director, Network Repository Function Data Feed	**Description**: Data Director is a product within the Oracle Communications Network Analytics Suite. It collects and aggregates 5G SBI network traffic mirrored from the Network Repository Function (NRF) and delivers the enriched traffic to third-party monitoring or probe tools for service monitoring, assurance, or analytics purposes. The Data Director maintains end-to-end security of SBI messages and delivers the data through standardized interfaces. **Prerequisites**: The following license is a prerequisite for Oracle Communications Network Analytics Data Director, Network Repository Function Data Feed. • Oracle Communications Cloud Native Core, Network Repository Function - 25K Active Subscribers **Entitled Products and Restricted Use Licenses**: None **Counting Mechanism**: The Data Director counts network-wide messages per second as it processes them.
Oracle Communications Network Analytics Data Director	Oracle Communications Network Analytics Data Director, Security Edge Protection Proxy Data Feed	**Description**: Data Director is a product within the Oracle Communications Network Analytics Suite. It collects and aggregates 5G SBI network traffic mirrored from the Security Edge Protection Proxy (SEPP) network function and delivers the enriched traffic to third-party monitoring or probe tools for service monitoring, assurance, or analytics purposes. The Data Director maintains end-to-end security of SBI messages and delivers the data through standardized interfaces **Prerequisites**: The following license is a prerequisite for Oracle Communications Network Analytics Data Director, Security Edge Protection Proxy Data Feed. • Oracle Communications Cloud Native Core, Security Edge Protection Proxy - 25K Active Subscribers **Entitled Products and Restricted Use Licenses**: None **Counting Mechanism**: The Data Director counts network-wide messages per second as it processes them.

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Table 2-1 (Cont.) Licensing Information

Product	Sub Product	Licensing Information
Oracle Communications Network Analytics Data Director	Oracle Communications Network Analytics Data Director, Binding Support Function Data Feed	**Description**: Data Director is a product within the Oracle Communications Network Analytics Suite. It collects and aggregates 5G SBI network traffic mirrored from the Binding Support Function (BSF) network function and delivers the enriched traffic to third-party monitoring or probe tools for service monitoring, assurance, or analytics purposes. The Data Director maintains end-to-end security of SBI messages and delivers the data through standardized interfaces. **Prerequisites**: The following license is a prerequisite to Oracle Communications Network Analytics Data Director, Binding Support Function Data Feed. • Oracle Communications Cloud Native Core, Binding Support Function - 25K Active Subscribers **Entitled Products and Restricted Use Licenses**: None **Counting Mechanism**: The Data Director counts network-wide messages per second as it processes them.
Oracle Communications Network Analytics Data Director	Oracle Communications Network Analytics Data Director, Policy Control Function Data Feed - Network-Wide Message per Second Perpetual	**Description**: Data Director is a product within the Oracle Communications Network Analytics Suite. It collects and aggregates 5G SBI network traffic mirrored from the Policy Control Function (PCF) network function and delivers the enriched traffic to third-party monitoring or probe tools for service monitoring, assurance, or analytics purposes. The Data Director maintains end-to-end security of SBI messages and delivers the data through standardized interfaces. **Prerequisites**: The following license is a prerequisite to Oracle Communications Network Analytics Data Director, Policy Control Function Data Feed. • Oracle Communications Cloud Native Core, Policy Control Function - 25K Active Subscribers **Entitled Products and Restricted Use Licenses**: None **Counting Mechanism**: The Data Director counts network-wide messages per second as it processes them.

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Table 2-1 (Cont.) Licensing Information

Product	Sub Product	Licensing Information
Oracle Communications Network Analytics Data Director	Oracle Communications Network Analytics Data Director, Service Communication Proxy Advanced Packet Processing - Network-Wide Message per Second	**Description**: This subproduct adds the following optional features to the Oracle Communications Network Analytics Data Director, Service Communication Proxy Data Feed. • Data Replication • Synthetic L2/L7 packet over TCP/TLS tunnel to third-party tools • Data Filtration **Prerequisites**: The following license is a prerequisite to Oracle Communications Network Analytics Data Director, Service Communication Proxy Advanced Packet Processing. • Oracle Communications Network Analytics Data Director, Service Communication Proxy Data Feed **Entitled Products and Restricted Use Licenses**: None **Counting Mechanism**: The Data Director counts network-wide messages per second as it processes them.
Oracle Communications Network Analytics Data Director	Oracle Communications Network Analytics Data Director, Network Repository Function Advanced Packet Processing - Network-Wide Message per Second	**Description**: This subproduct adds the following optional features to the Oracle Communications Network Analytics Data Director, Network Repository Function Data Feed. • Data Replication • Synthetic L2/L7 packet over TCP/TLS tunnel to third-party tools • Data Filtration **Prerequisites**: The following license is a prerequisite to Oracle Communications Network Analytics Data Director, Network Repository Function Advanced Packet Processing. • Oracle Communications Network Analytics Data Director, Network Repository Function Data Feed **Entitled Products and Restricted Use Licenses**: None **Counting Mechanism**: The Data Director counts network-wide messages per second as it processes them.

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Table 2-1 (Cont.) Licensing Information

Product	Sub Product	Licensing Information
Oracle Communications Network Analytics Data Director	Oracle Communications Network Analytics Data Director, Security Edge Protection Proxy Advanced Packet Processing - Network-Wide Message per Second	**Description**: This subproduct adds the following optional features to the Oracle Communications Network Analytics Data Director, Security Edge Protection Proxy Data Feed. • Data Replication • Synthetic L2/L7 packet over TCP/TLS tunnel to third-party tools • Data Filtration **Prerequisites**: The following license is a prerequisite to Oracle Communications Network Analytics Data Director, Security Edge Protection Proxy Advanced Packet Processing. • Oracle Communications Network Analytics Data Director, Security Edge Protection Proxy Data Feed **Entitled Products and Restricted Use Licenses**: None **Counting Mechanism**: The Data Director counts network-wide messages per second as it processes them.
Oracle Communications Network Analytics Data Director	Oracle Communications Network Analytics Data Director, Binding Support Function Advanced Packet Processing - Network-Wide Message per Second	**Description**: This subproduct adds the following optional features to the Oracle Communications Network Analytics Data Director, Binding Support Function Data Feed. • Data Replication • Synthetic L2/L7 packet over TCP/TLS tunnel to third-party tools • Data Filtration **Prerequisites**: The following license is a prerequisite to Oracle Communications Network Analytics Data Director, Binding Support Function Advanced Packet Processing. • Oracle Communications Network Analytics Data Director, Binding Support Function Data Feed **Entitled Products and Restricted Use Licenses**: None **Counting Mechanism**: The Data Director counts network-wide messages per second as it processes them.

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Table 2-1 (Cont.) Licensing Information

Product	Sub Product	Licensing Information
Oracle Communications Network Analytics Data Director	Oracle Communications Network Analytics Data Director, Policy Control Function Advanced Packet Processing - Network-Wide Message per Second Perpetual	**Description**: This subproduct adds the following optional features to the Oracle Communications Network Analytics Data Director, Policy Control Function Data Feed. • Data Replication • Synthetic L2/L7 packet over TCP/TLS tunnel to third-party tools • Data Filtration **Prerequisites**: The following license is a prerequisite to Oracle Communications Network Analytics Data Director, Policy Control Function Advanced Packet Processing. • Oracle Communications Network Analytics Data Director, Policy Control Function Data Feed **Entitled Products and Restricted Use Licenses**: None **Counting Mechanism**: The Data Director counts network-wide messages per second as it processes them.
Oracle Communications Network Analytics Data Director	Oracle Communications Network Analytics Data Director, Service Communication Proxy Tracing and xDR Packet Processing - Network-Wide Message per Second	**Description:** This subproduct adds the following optional features to the Oracle Communications Network Analytics Data Director, Service Communication Proxy Data Feed • xDR and Reports • xDR Storage and Delivery • PCAP Export • Selective Trace Generation • Filtering for Tracing and xDR **Prerequisites:** The following license is a prerequisite to Oracle Communications Network Analytics Data Director, Service Communication Proxy Tracing and xDR Packet Processing • Oracle Communications Network Analytics Data Director, Service Communication Proxy Data Feed **Entitled Products and Restricted Use Licenses:** None **Counting Mechanism:** The Data Director counts network-wide messages per second as it processes them.

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Product	Sub Product	Licensing Information
Oracle Communications Network Analytics Data Director	Oracle Communications Network Analytics Data Director, Network Repository Function Tracing and xDR Packet Processing - Network-Wide Message per Second	**Description:** This subproduct adds the following optional features to the Oracle Communications Network Analytics Data Director, Network Repository Function Data Feed • xDR and Reports • xDR Storage and Delivery • PCAP Export • Selective Trace Generation • Filtering for Tracing and xDR **Prerequisites:** The following license is a prerequisite to Oracle Communications Network Analytics Data Director, Network Repository Function Tracing and xDR Packet Processing • Oracle Communications Network Analytics Data Director, Network Repository Function Data Feed **Entitled Products and Restricted Use Licenses:** None **Counting Mechanism:** The Data Director counts network-wide messages per second as it processes them.
Oracle Communications Network Analytics Data Director	Oracle Communications Network Analytics Data Director, Security Edge Protection Proxy Tracing and xDR Packet Processing - Network-Wide Message per Second	**Description:** This subproduct adds the following optional features to the Oracle Communications Network Analytics Data Director, Security Edge Protection Proxy Data Feed • xDR and Reports • xDR Storage and Delivery • PCAP Export • Selective Trace Generation – Filtering for Tracing and xDR **Prerequisites:** The following license is a prerequisite to Oracle Communications Network Analytics Data Director, Security Edge Protection Proxy Tracing and xDR Packet Processing • Oracle Communications Network Analytics Data Director, Security Edge Protection Proxy Data Feed **Entitled Products and Restricted Use Licenses:** None **Counting Mechanism:** The Data Director counts network-wide messages per second as it processes them.

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Product	Sub Product	Licensing Information
Oracle Communications Network Analytics Data Director	Oracle Communications Network Analytics Data Director, Binding Support Function Tracing and xDR Packet Processing - Network-Wide Message per Second	**Description:** This subproduct adds the following optional features to the Oracle Communications Network Analytics Data Director, Binding Support Function Data Feed • xDR and Reports • xDR Storage and Delivery • PCAP Export • Selective Trace Generation – Filtering for Tracing and xDR **Prerequisites:** The following license is a prerequisite to Oracle Communications Network Analytics Data Director, Binding Support Function Tracing and xDR Packet Processing • Oracle Communications Network Analytics Data Director, Binding Support Function Data Feed **Entitled Products and Restricted Use Licenses:** None **Counting Mechanism:** The Data Director counts network-wide messages per second as it processes them.
Oracle Communications Network Analytics Data Director	Oracle Communications Network Analytics Data Director, Policy Control Function Tracing and xDR Packet Processing - Network-Wide Message per Second Perpetual	**Description:** This subproduct adds the following optional features to the Oracle Communications Network Analytics Data Director, Policy Control Function Data Feed • xDR and Reports • xDR Storage and Delivery • PCAP Export • Selective Trace Generation – Filtering for Tracing and xDR **Prerequisites:** The following license is a prerequisite to Oracle Communications Network Analytics Data Director, Policy Control Function Tracing and xDR Packet Processing • Oracle Communications Network Analytics Data Director, Policy Control Function Data Feed **Entitled Products and Restricted Use Licenses:** None **Counting Mechanism:** The Data Director counts network-wide messages per second as it processes them.

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Note

MySQL Enterprise Edition needs to be downloaded separately from the Oracle Software Delivery Cloud as it is not a part of the Data Director download package.

- For MySQL license manual, click here.

Note

Oracle Java SE, used by Data Director, must be downloaded separately from the Oracle Software Delivery Cloud as Oracle Java SE is not a part of the Data Director download package. For more information on licensing, refer to the Oracle Java SE End-User Licensing Agreement .

Note

Oracle CNE Infrastructure, used by Data Director, must be downloaded separately from the Oracle Software Delivery Cloud as Oracle CNE Infrastructure is not a part of the Data Director download package. For more information on licensing, refer to the Oracle CNE Infrastructure End-User Licensing Agreement .

Note

Data Director uses both versions of Oracle Coherence (Community Edition [CE] and Enterprise edition [EE]). For more information on their licensing, please refer to the license document/release notes:

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- Oracle Coherence Community Edition

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The sections below identify the open source components used by Oracle Communications Data Director. The licensing information can be found in section **Data Director Licensing Information.**

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Albert Cahalan

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>
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```


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Version 2.1, February 1999

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve

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this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Version 2, June 1991

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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    (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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```
by James Random Hacker.

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 *
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/*
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 *
/* top_nls.c - provide the basis for future nls translations */
/*
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```
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 *
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 *
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 *
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 *
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 *
 * tload.c      - terminal version of xload
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 * Copyright © 1992      Branko Lankester
 *
 * /proc changes by David Engel (david@ods.com)
 * Made a little more efficient by Michael K. Johnson (johnsonm@sunsite.unc.edu)
 *
 * uptime.c - display system uptime
 *
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 *
```


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*
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* Rewritten, older version:
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*
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*
* sortformat.c - ps output sorting
```


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 *
 * stacktrace.c - ps debugging additions
 *
 * Gnu debugger stack trace code provided by Peter Mattis
 * <petm@CSUA.Berkeley.EDU> on Thu, 2 Nov 1995
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```
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 *
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 *
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 *
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 *
 * namespace.c - Library API for Linux namespaces
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 *
 * NUMA node support for <PIDS> & <STAT> interfaces
 *
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 * pids.c - process related definitions for libproc2
 *
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 *
 * pwcache.c - memory cache passwd file handling
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 *
 * Older version:
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 * Note: most likely none of his code remains
 *
 * readproc - interface to process table
 *
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```


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*
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*
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*
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*
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*
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 * Fundamental C definitions.
 */

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fileutils.c
== NAME OF DEPENDENCY 4
fileutils.h
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procio.c
procio.h
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/*
 * procio.c -- Replace stdio for read and write on files below
 * proc to be able to read and write large buffers as well.
 *
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signals.c
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/*
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strutils.c
```


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/*
 * General memory allocation wrappers for malloc, realloc, calloc
 * and strdup.
 */

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 * General memory allocation wrappers for malloc, realloc, calloc and strdup
 */

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------------------------------------------------------------------------------
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  glom
    attrs
    boltons
    face
      boltons
  requests
    certifi
    charset-normalizer
    idna
    urllib3

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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:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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FastDoubleParser

This is a Java port of Daniel Lemire's fast_float project.
This project provides parsers for double, float, BigDecimal and BigInteger values.

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

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

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PCG Random Number Generation for C.

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

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

Constants used in the rk_double implementation by Isaku Wada.

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Name: Julia

The ziggurat methods were derived from Julia.

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Name: SPLITMIX64

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

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

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

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PCG Random Number Generation for C.

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The rk_random and rk_seed functions algorithms and the original design of the Mersenne
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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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Components

Many parts of this module have been derived from original sources, often the algorithm's
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# ojet-cli

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org.apache.kafka:kafka-clients:jar:3.1.0:compile
com.github.luben:zstd-jni:jar:1.5.0-4:runtime
com.fasterxml.jackson.core:jackson-annotations:jar:2.12.3:runtime
com.fasterxml.jackson.core:jackson-databind:jar:2.12.3:runtime
com.fasterxml.jackson.core:jackson-core:jar:2.12.3:runtime
-------------------------------------------------------------------------------
dependencies 1

1. org.apache.kafka.kafka-clients

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dependency 2

2. zstd-jni:jar

Zstd-jni: JNI bindings to Zstd Library

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dependency 3
3 jackson-annotations:jar:2.12.3

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dependency 4,5
jackson-databind:jar:2.13.2.2
jackson-core:jar:2.12.3


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It is currently developed by a community of developers.

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Other developers who have contributed code are:

* Brian Langel
```


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org.apache.logging.log4j:log4j-to-slf4j
org.apache.logging.log4j:log4j-api

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 * https://github.com/eclipse-ee4j/common-annotations-api

## Third-party Content

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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

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 - 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
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 - javaee_7.xsd
 - javaee_web_services_1_4.xsd
 - javaee_web_services_client_1_4.xsd
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 - web-common_3_1.xsd
 - web-fragment_3_1.xsd
 - javaee_8.xsd
 - web-app_4_0.xsd
 - web-common_4_0.xsd
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may be obtained from:
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The project maintains the following source code repositories:

 * [The specification repository](https://github.com/eclipse-ee4j/beanvalidation-spec)
 * [The API repository](https://github.com/eclipse-ee4j/beanvalidation-api)
 * [The TCK repository](https://github.com/eclipse-ee4j/beanvalidation-tck)

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This project leverages the following third party content.

Test dependencies:

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 * [JCommander](https://github.com/cbeust/jcommander) - Apache License 2.0
 * [SnakeYAML](https://bitbucket.org/asomov/snakeyaml/src) - Apache License 2.0

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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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spring-boot-starter-data-redis

```
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    Fourth party dependencies

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
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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-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
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    * https://code.google.com/p/jbzip2/

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    org.springframework.boot:spring-boot
    org.springframework.boot:spring-boot-autoconfigure
    org.springframework.boot:spring-boot-starter-logging
    org.springframework:spring-core
    org.springframework:spring-context
    org.springframework:spring-context-support
    org.springframework:spring-beans:jar
    org.springframework:spring-aop
    org.springframework:spring-expression
    org.springframework:spring-tx
    ch.qos.logback:logback-classic
    ch.qos.logback:logback-core
    org.slf4j:slf4j-api
    org.apache.logging.log4j:log4j-to-slf4j
    org.apache.logging.log4j:log4j-api
    org.slf4j:jul-to-slf4j
    jakarta.annotation:jakarta.annotation-api
    org.yaml:snakeyaml


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    org.springframework:spring-core
    org.springframework:spring-context
    org.springframework:spring-context-support
    org.springframework:spring-beans:jar
    org.springframework:spring-aop
    org.springframework:spring-expression
    org.springframework:spring-tx

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    org.springframework.boot:spring-boot
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   org.slf4j:slf4j-api
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    com.fasterxml.jackson.core    jackson-databind
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micrometer-common

Micrometer

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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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  Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

  6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
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directing the user to the copy of this License.  Also, you must do one
of these things:

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    changes were used in the work (which must be distributed under
    Sections 1 and 2 above); and, if the work is an executable linked
    with the Library, with the complete machine-readable "work that
    uses the Library", as object code and/or source code, so that the
    user can modify the Library and then relink to produce a modified
    executable containing the modified Library.  (It is understood
    that the user who changes the contents of definitions files in the
    Library will not necessarily be able to recompile the application
    to use the modified definitions.)

    b) Use a suitable shared library mechanism for linking with the
    Library.  A suitable mechanism is one that (1) uses at run time a
    copy of the library already present on the user's computer system,
    rather than copying library functions into the executable, and (2)
    will operate properly with a modified version of the library, if
    the user installs one, as long as the modified version is
    interface-compatible with the version that the work was made with.

    c) Accompany the work with a written offer, valid for at
    least three years, to give the same user the materials
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  For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it.  However, as a special exception,
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com.fasterxml.jackson.core:jackson-databind
== NAME OF DEPENDENCY 19
com.fasterxml.jackson.core:jackson-annotations
== NAME OF DEPENDENCY 20
com.fasterxml.jackson.datatype:jackson-datatype-jdk8
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com.fasterxml.jackson.datatype:jackson-datatype-jsr310
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== NAME OF DEPENDENCY 25
io.projectreactor.netty:reactor-netty-core
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io.netty:netty-codec-http
== NAME OF DEPENDENCY 27
io.netty:netty-common
== NAME OF DEPENDENCY 28
io.netty:netty-buffer
== NAME OF DEPENDENCY 29
io.netty:netty-transport
== NAME OF DEPENDENCY 30
io.netty:netty-codec
== NAME OF DEPENDENCY 31
io.netty:netty-handler
== NAME OF DEPENDENCY 32
io.netty:netty-codec-http2
== NAME OF DEPENDENCY 33
io.netty:netty-resolver-dns
== NAME OF DEPENDENCY 34
io.netty:netty-resolver
== NAME OF DEPENDENCY 35
io.netty:netty-codec-dns
== NAME OF DEPENDENCY 36
io.netty:netty-resolver-dns-native-macos:osx-x86_64
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io.netty:netty-resolver-dns-classes-macos
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io.netty:netty-transport-native-epoll:linux-x86_64
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io.netty:netty-transport-native-unix-common
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org.apache.logging.log4j:log4j-to-slf4j
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python-dotenv

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lua
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fpconv

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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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To: Matt Haberland <mhaberla@calpoly.edu>
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On 22/07/2020 17.05, Matt Haberland wrote:
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scipy.stats. We'd like to add both Fisher's and Wallenius' noncentral
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We found your BiasedUrn package, and we'd love to wrap it, but we can't
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Thank you for considering it!
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    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
    unuran-1.8.1/doc/figures/inversion.txt
    unuran-1.8.1/doc/figures/rejection_from_constant_hat.eps
    unuran-1.8.1/doc/figures/rejection_from_constant_hat.pdf
    unuran-1.8.1/doc/figures/rejection_from_constant_hat.png
    unuran-1.8.1/doc/figures/rejection_from_constant_hat.txt
    unuran-1.8.1/doc/figures/rou-cauchy.eps
    unuran-1.8.1/doc/figures/rou-cauchy.pdf
    unuran-1.8.1/doc/figures/rou-cauchy.png
    unuran-1.8.1/doc/figures/rou-cauchy.txt
    unuran-1.8.1/doc/figures/texpict2img.pl
    unuran-1.8.1/doc/src/Makefile.am
    unuran-1.8.1/doc/src/Makefile.in
    unuran-1.8.1/doc/src/README
    unuran-1.8.1/doc/src/arvag.dh
    unuran-1.8.1/doc/src/error_debug.dh
    unuran-1.8.1/doc/src/examples.dh
```


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```
unuran-1.8.1/doc/src/glossary.dh
unuran-1.8.1/doc/src/index.dh
unuran-1.8.1/doc/src/installation.dh
unuran-1.8.1/doc/src/intro.dh
unuran-1.8.1/doc/src/make_texi.pl
unuran-1.8.1/doc/src/methods.dh
unuran-1.8.1/doc/src/methods_cemp.texi
unuran-1.8.1/doc/src/methods_cont.texi
unuran-1.8.1/doc/src/methods_cvec.texi
unuran-1.8.1/doc/src/methods_cvemp.texi
unuran-1.8.1/doc/src/methods_discr.texi
unuran-1.8.1/doc/src/methods_matr.texi
unuran-1.8.1/doc/src/methods_mcmc.texi
unuran-1.8.1/doc/src/misc.dh
unuran-1.8.1/doc/src/ref_example0.texi
unuran-1.8.1/doc/src/ref_example0_str.texi
unuran-1.8.1/doc/src/ref_example1.texi
unuran-1.8.1/doc/src/ref_example1_str.texi
unuran-1.8.1/doc/src/ref_example2.texi
unuran-1.8.1/doc/src/ref_example2_str.texi
unuran-1.8.1/doc/src/ref_example3.texi
unuran-1.8.1/doc/src/ref_example3_str.texi
unuran-1.8.1/doc/src/ref_example_FuncStr.texi
unuran-1.8.1/doc/src/ref_example_anti.texi
unuran-1.8.1/doc/src/ref_example_anti_str.texi
unuran-1.8.1/doc/src/ref_example_cext.texi
unuran-1.8.1/doc/src/ref_example_cont.texi
unuran-1.8.1/doc/src/ref_example_cont_str.texi
unuran-1.8.1/doc/src/ref_example_dext.texi
unuran-1.8.1/doc/src/ref_example_discr.texi
unuran-1.8.1/doc/src/ref_example_discr_str.texi
unuran-1.8.1/doc/src/ref_example_emp.texi
unuran-1.8.1/doc/src/ref_example_emp_str.texi
unuran-1.8.1/doc/src/ref_example_gsl.texi
unuran-1.8.1/doc/src/ref_example_mixt.texi
unuran-1.8.1/doc/src/ref_example_mixt_inv.texi
unuran-1.8.1/doc/src/ref_example_rngstreams.texi
unuran-1.8.1/doc/src/ref_example_vemp.texi
unuran-1.8.1/doc/src/ref_example_win32_1.texi
unuran-1.8.1/doc/src/ref_example_win32_2.texi
unuran-1.8.1/doc/src/references.dh
unuran-1.8.1/doc/src/stddist.dh
unuran-1.8.1/doc/src/texinfo.tex
unuran-1.8.1/doc/src/top.dh
unuran-1.8.1/doc/src/unuran_src.texi
unuran-1.8.1/doc/stamp-1
unuran-1.8.1/doc/stamp-vti
unuran-1.8.1/doc/unuran.html
unuran-1.8.1/doc/unuran.info
unuran-1.8.1/doc/unuran.pdf
unuran-1.8.1/doc/unuran.texi
unuran-1.8.1/doc/unuran.txt
unuran-1.8.1/doc/unuran_win32.html
unuran-1.8.1/doc/unuran_win32.info
unuran-1.8.1/doc/unuran_win32.pdf
unuran-1.8.1/doc/unuran_win32.texi
unuran-1.8.1/doc/unuran_win32_libname.texi
unuran-1.8.1/doc/version.texi
unuran-1.8.1/doc/version_win32.texi
unuran-1.8.1/examples/Makefile.am
unuran-1.8.1/examples/Makefile.in
unuran-1.8.1/examples/example0.c
```


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```
unuran-1.8.1/examples/example0_str.c
unuran-1.8.1/examples/example1.c
unuran-1.8.1/examples/example1_str.c
unuran-1.8.1/examples/example2.c
unuran-1.8.1/examples/example2_str.c
unuran-1.8.1/examples/example3.c
unuran-1.8.1/examples/example3_str.c
unuran-1.8.1/examples/example_FuncStr.c
unuran-1.8.1/examples/example_anti.c
unuran-1.8.1/examples/example_anti_str.c
unuran-1.8.1/examples/example_cext.c
unuran-1.8.1/examples/example_cont.c
unuran-1.8.1/examples/example_cont_str.c
unuran-1.8.1/examples/example_cpp.cpp
unuran-1.8.1/examples/example_dext.c
unuran-1.8.1/examples/example_discr.c
unuran-1.8.1/examples/example_discr_str.c
unuran-1.8.1/examples/example_emp.c
unuran-1.8.1/examples/example_emp_str.c
unuran-1.8.1/examples/example_errorhandler.c
unuran-1.8.1/examples/example_gsl.c
unuran-1.8.1/examples/example_mcorr.c
unuran-1.8.1/examples/example_mixt.c
unuran-1.8.1/examples/example_mixt_inv.c
unuran-1.8.1/examples/example_prng.c
unuran-1.8.1/examples/example_prng_str.c
unuran-1.8.1/examples/example_rngstreams.c
unuran-1.8.1/examples/example_vemp.c
unuran-1.8.1/experiments/Makefile.am
unuran-1.8.1/experiments/Makefile.in
unuran-1.8.1/experiments/make_timing_table.c
unuran-1.8.1/experiments/timings_chap_10.conf
unuran-1.8.1/experiments/timings_chap_8.conf
unuran-1.8.1/scripts/Makefile.am
unuran-1.8.1/scripts/Makefile.in
unuran-1.8.1/scripts/compute_machine_constants.c
unuran-1.8.1/scripts/make_urng_header.pl
unuran-1.8.1/scripts/merge_h.pl
unuran-1.8.1/scripts/read_PDF.pl
unuran-1.8.1/scripts/remove_comments.pl
unuran-1.8.1/scripts/run_valgrind.sh
unuran-1.8.1/scripts/win32/Makefile.win32
unuran-1.8.1/scripts/win32/build.sh
unuran-1.8.1/scripts/win32/example1.c
unuran-1.8.1/scripts/win32/example2.c
unuran-1.8.1/scripts/win32/make_dll_def.pl
unuran-1.8.1/src/Makefile.am
unuran-1.8.1/src/Makefile.in
unuran-1.8.1/src/README
unuran-1.8.1/src/distr/Makefile.am
unuran-1.8.1/src/distr/Makefile.in
unuran-1.8.1/src/distributions/Makefile.am
unuran-1.8.1/src/distributions/Makefile.in
unuran-1.8.1/src/distributions/README
unuran-1.8.1/src/methods/Makefile.am
unuran-1.8.1/src/methods/Makefile.in
unuran-1.8.1/src/parser/Makefile.am
unuran-1.8.1/src/parser/Makefile.in
unuran-1.8.1/src/parser/functparser_doc.dh
unuran-1.8.1/src/parser/make_stringparser.pl
unuran-1.8.1/src/parser/stringparser_doc.dh
unuran-1.8.1/src/specfunct/Makefile.am
```


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```
unuran-1.8.1/src/specfunct/Makefile.in
unuran-1.8.1/src/tests/Makefile.am
unuran-1.8.1/src/tests/Makefile.in
unuran-1.8.1/src/uniform/Makefile.am
unuran-1.8.1/src/uniform/Makefile.in
unuran-1.8.1/src/uniform/fish.c
unuran-1.8.1/src/uniform/mrg31k3p.c
unuran-1.8.1/src/uniform/mstd.c
unuran-1.8.1/src/uniform/unuran_urng_gsl.h
unuran-1.8.1/src/uniform/unuran_urng_prng.h
unuran-1.8.1/src/uniform/unuran_urng_rngstreams.h
unuran-1.8.1/src/uniform/urng_builtin.c
unuran-1.8.1/src/uniform/urng_builtin.h
unuran-1.8.1/src/uniform/urng_fvoid.c
unuran-1.8.1/src/uniform/urng_fvoid.h
unuran-1.8.1/src/uniform/urng_gsl.c
unuran-1.8.1/src/uniform/urng_gsl.h
unuran-1.8.1/src/uniform/urng_gslqrng.c
unuran-1.8.1/src/uniform/urng_gslqrng.h
unuran-1.8.1/src/uniform/urng_prng.c
unuran-1.8.1/src/uniform/urng_prng.h
unuran-1.8.1/src/uniform/urng_randomshift.c
unuran-1.8.1/src/uniform/urng_randomshift.h
unuran-1.8.1/src/uniform/urng_rngstreams.c
unuran-1.8.1/src/uniform/urng_rngstreams.h
unuran-1.8.1/src/unuran.h.in
unuran-1.8.1/src/urng/Makefile.am
unuran-1.8.1/src/urng/Makefile.in
unuran-1.8.1/src/utils/Makefile.am
unuran-1.8.1/src/utils/Makefile.in
unuran-1.8.1/tests/Makefile.am
unuran-1.8.1/tests/Makefile.in
unuran-1.8.1/tests/README.conf
unuran-1.8.1/tests/make_test_files.pl
unuran-1.8.1/tests/t_arou.c
unuran-1.8.1/tests/t_arou.conf
unuran-1.8.1/tests/t_ars.c
unuran-1.8.1/tests/t_ars.conf
unuran-1.8.1/tests/t_auto.c
unuran-1.8.1/tests/t_auto.conf
unuran-1.8.1/tests/t_cext.c
unuran-1.8.1/tests/t_cext.conf
unuran-1.8.1/tests/t_cstd.c
unuran-1.8.1/tests/t_cstd.conf
unuran-1.8.1/tests/t_dari.c
unuran-1.8.1/tests/t_dari.conf
unuran-1.8.1/tests/t_dau.c
unuran-1.8.1/tests/t_dau.conf
unuran-1.8.1/tests/t_deprecated_tdrgw.c
unuran-1.8.1/tests/t_deprecated_vmt.c
unuran-1.8.1/tests/t_deprecated_vmt.conf
unuran-1.8.1/tests/t_dext.c
unuran-1.8.1/tests/t_dext.conf
unuran-1.8.1/tests/t_dgt.c
unuran-1.8.1/tests/t_dgt.conf
unuran-1.8.1/tests/t_distr.c
unuran-1.8.1/tests/t_distr.conf
unuran-1.8.1/tests/t_distr_cemp.c
unuran-1.8.1/tests/t_distr_cemp.conf
unuran-1.8.1/tests/t_distr_condi.c
unuran-1.8.1/tests/t_distr_condi.conf
unuran-1.8.1/tests/t_distr_cont.c
```


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```
unuran-1.8.1/tests/t_distr_cont.conf
unuran-1.8.1/tests/t_distr_corder.c
unuran-1.8.1/tests/t_distr_corder.conf
unuran-1.8.1/tests/t_distr_cvec.c
unuran-1.8.1/tests/t_distr_cvec.conf
unuran-1.8.1/tests/t_distr_cvemp.c
unuran-1.8.1/tests/t_distr_cvemp.conf
unuran-1.8.1/tests/t_distr_cxtrans.c
unuran-1.8.1/tests/t_distr_cxtrans.conf
unuran-1.8.1/tests/t_distr_discr.c
unuran-1.8.1/tests/t_distr_discr.conf
unuran-1.8.1/tests/t_distr_matr.c
unuran-1.8.1/tests/t_distr_matr.conf
unuran-1.8.1/tests/t_dsrou.c
unuran-1.8.1/tests/t_dsrou.conf
unuran-1.8.1/tests/t_dss.c
unuran-1.8.1/tests/t_dss.conf
unuran-1.8.1/tests/t_dstd.c
unuran-1.8.1/tests/t_dstd.conf
unuran-1.8.1/tests/t_empk.c
unuran-1.8.1/tests/t_empk.conf
unuran-1.8.1/tests/t_empl.c
unuran-1.8.1/tests/t_empl.conf
unuran-1.8.1/tests/t_gibbs.c
unuran-1.8.1/tests/t_gibbs.conf
unuran-1.8.1/tests/t_hinv.c
unuran-1.8.1/tests/t_hinv.conf
unuran-1.8.1/tests/t_hist.c
unuran-1.8.1/tests/t_hist.conf
unuran-1.8.1/tests/t_hitro.c
unuran-1.8.1/tests/t_hrb.c
unuran-1.8.1/tests/t_hrb.conf
unuran-1.8.1/tests/t_hrd.c
unuran-1.8.1/tests/t_hrd.conf
unuran-1.8.1/tests/t_hri.c
unuran-1.8.1/tests/t_hri.conf
unuran-1.8.1/tests/t_info.c
unuran-1.8.1/tests/t_info.conf
unuran-1.8.1/tests/t_itdr.c
unuran-1.8.1/tests/t_itdr.conf
unuran-1.8.1/tests/t_mcorr.c
unuran-1.8.1/tests/t_mcorr.conf
unuran-1.8.1/tests/t_mixt.c
unuran-1.8.1/tests/t_mvstd.c
unuran-1.8.1/tests/t_mvstd.conf
unuran-1.8.1/tests/t_mvtdr.c
unuran-1.8.1/tests/t_ninv.c
unuran-1.8.1/tests/t_ninv.conf
unuran-1.8.1/tests/t_norta.c
unuran-1.8.1/tests/t_norta.conf
unuran-1.8.1/tests/t_nrou.c
unuran-1.8.1/tests/t_nrou.conf
unuran-1.8.1/tests/t_pinv
unuran-1.8.1/tests/t_pinv.c
unuran-1.8.1/tests/t_srou.c
unuran-1.8.1/tests/t_srou.conf
unuran-1.8.1/tests/t_ssr.c
unuran-1.8.1/tests/t_ssr.conf
unuran-1.8.1/tests/t_stringparser.c
unuran-1.8.1/tests/t_stringparser.conf
unuran-1.8.1/tests/t_tabl.c
unuran-1.8.1/tests/t_tabl.conf
```


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```
    unuran-1.8.1/tests/t_tdr.c
    unuran-1.8.1/tests/t_tdr.conf
    unuran-1.8.1/tests/t_tdr_gw.c
    unuran-1.8.1/tests/t_tdr_gw.conf
    unuran-1.8.1/tests/t_tdr_ia.c
    unuran-1.8.1/tests/t_tdr_ia.conf
    unuran-1.8.1/tests/t_tdr_ps.c
    unuran-1.8.1/tests/t_tdr_ps.conf
    unuran-1.8.1/tests/t_unif.c
    unuran-1.8.1/tests/t_unif.conf
    unuran-1.8.1/tests/t_unur_error.c
    unuran-1.8.1/tests/t_unur_error.conf
    unuran-1.8.1/tests/t_unur_tests.c
    unuran-1.8.1/tests/t_unur_tests.conf
    unuran-1.8.1/tests/t_urng.c
    unuran-1.8.1/tests/t_urng.conf
    unuran-1.8.1/tests/t_utdr.c
    unuran-1.8.1/tests/t_utdr.conf
    unuran-1.8.1/tests/t_util_matrix.c
    unuran-1.8.1/tests/t_util_matrix.conf
    unuran-1.8.1/tests/t_vempk.c
    unuran-1.8.1/tests/t_vempk.conf
    unuran-1.8.1/tests/t_vnrou.c
    unuran-1.8.1/tests/t_vnrou.conf
    unuran-1.8.1/tests/t_x_gen.c
    unuran-1.8.1/tests/t_x_gen.conf
    unuran-1.8.1/tests/test_StdDistr.c
    unuran-1.8.1/tests/test_StdDistr.m
    unuran-1.8.1/tests/test_functionparser.c
    unuran-1.8.1/tests/test_functionparser.m
    unuran-1.8.1/tests/testcounter.c
    unuran-1.8.1/tests/testdistributions/Makefile.am
    unuran-1.8.1/tests/testdistributions/Makefile.in
    unuran-1.8.1/tests/testdistributions/c_sawtooth_contpdf.c
    unuran-1.8.1/tests/testdistributions/c_sawtooth_discpdf.c
    unuran-1.8.1/tests/testdistributions/c_w_pdf_from_logpdf.c
    unuran-1.8.1/tests/testdistributions/c_with_multiple_of_pdf.c
    unuran-1.8.1/tests/testdistributions/c_wo_logpdf.c
    unuran-1.8.1/tests/testdistributions/testdistributions.h
    unuran-1.8.1/tests/testdistributions/vc_cauchy_RoU_ball.c
    unuran-1.8.1/tests/testdistributions/vc_special_correlations_ar1.c
    unuran-1.8.1/tests/testdistributions/vc_special_correlations_constantrho.c
    unuran-1.8.1/tests/testdistributions/vc_w_marginals.c
    unuran-1.8.1/tests/testdistributions/vc_wo_logpdf.c
    unuran-1.8.1/tests/testroutines.c
    unuran-1.8.1/tests/testunuran.h
    unuran-1.8.1/src/distr/deprecated_distr.c
    unuran-1.8.1/src/distr/deprecated_distr.h
    unuran-1.8.1/src/methods/deprecated_methods.c
    unuran-1.8.1/src/methods/deprecated_methods.h
    unuran-1.8.1/src/methods/deprecated_tdrgw.h
    unuran-1.8.1/src/methods/deprecated_vmt.c
    unuran-1.8.1/src/methods/deprecated_vmt.h
    unuran-1.8.1/src/methods/deprecated_vmt_struct.h
    unuran-1.8.1/src/parser/stringparser_lists.ch.in

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

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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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to use the UNU.RAN code excluding the uniform random number generator in src/uniform/
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    unuran-1.8.1/COPYING
    unuran-1.8.1/INSTALL
    unuran-1.8.1/Makefile.am
    unuran-1.8.1/Makefile.in
    unuran-1.8.1/NEWS
    unuran-1.8.1/UPGRADE
    unuran-1.8.1/acinclude.m4
    unuran-1.8.1/aclocal.m4
    unuran-1.8.1/autoconf/config.guess
    unuran-1.8.1/autoconf/config.sub
    unuran-1.8.1/autoconf/depcomp
    unuran-1.8.1/autoconf/install-sh
    unuran-1.8.1/autoconf/ltmain.sh
    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
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unuran-1.8.1/doc/src/top.dh
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unuran-1.8.1/scripts/run_valgrind.sh
unuran-1.8.1/scripts/win32/Makefile.win32
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unuran-1.8.1/scripts/win32/example1.c
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unuran-1.8.1/tests/t_unur_error.c
unuran-1.8.1/tests/t_unur_error.conf
unuran-1.8.1/tests/t_unur_tests.c
unuran-1.8.1/tests/t_unur_tests.conf
unuran-1.8.1/tests/t_urng.c
unuran-1.8.1/tests/t_urng.conf
unuran-1.8.1/tests/t_utdr.c
unuran-1.8.1/tests/t_utdr.conf
unuran-1.8.1/tests/t_util_matrix.c
unuran-1.8.1/tests/t_util_matrix.conf
unuran-1.8.1/tests/t_vempk.c
unuran-1.8.1/tests/t_vempk.conf
unuran-1.8.1/tests/t_vnrou.c
unuran-1.8.1/tests/t_vnrou.conf
unuran-1.8.1/tests/t_x_gen.c
unuran-1.8.1/tests/t_x_gen.conf
unuran-1.8.1/tests/test_StdDistr.c
unuran-1.8.1/tests/test_StdDistr.m
unuran-1.8.1/tests/test_functionparser.c
unuran-1.8.1/tests/test_functionparser.m
unuran-1.8.1/tests/testcounter.c
unuran-1.8.1/tests/testdistributions/Makefile.am
unuran-1.8.1/tests/testdistributions/Makefile.in
unuran-1.8.1/tests/testdistributions/c_sawtooth_contpdf.c
unuran-1.8.1/tests/testdistributions/c_sawtooth_discpdf.c
unuran-1.8.1/tests/testdistributions/c_w_pdf_from_logpdf.c
unuran-1.8.1/tests/testdistributions/c_with_multiple_of_pdf.c
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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
```


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```
    unuran-1.8.1/tests/testroutines.c
    unuran-1.8.1/tests/testunuran.h
    unuran-1.8.1/src/distr/deprecated_distr.c
    unuran-1.8.1/src/distr/deprecated_distr.h
    unuran-1.8.1/src/methods/deprecated_methods.c
    unuran-1.8.1/src/methods/deprecated_methods.h
    unuran-1.8.1/src/methods/deprecated_tdrgw.h
    unuran-1.8.1/src/methods/deprecated_vmt.c
    unuran-1.8.1/src/methods/deprecated_vmt.h
    unuran-1.8.1/src/methods/deprecated_vmt_struct.h
    unuran-1.8.1/src/parser/stringparser_lists.ch.in
UNU.RAN relies on a modified version of the library Cephes, see ./src/src/specfunct/
cephes_source.h
```


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org.springframework.boot:spring-boot
org.springframework:spring-web
io.swagger.core.v3:swagger-core
jakarta.xml.bind:jakarta.xml.bind-api
jakarta.activation:jakarta.activation-api
org.apache.commons:commons-lang3
com.fasterxml.jackson.core:jackson-annotations
com.fasterxml.jackson.core:jackson-databind
com.fasterxml.jackson.dataformat:jackson-dataformat-yaml
com.fasterxml.jackson.datatype:jackson-datatype-jsr310
io.swagger.core.v3:swagger-annotations
```


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```
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io.swagger.core.v3:swagger-models
jakarta.validation:jakarta.validation-api
org.springframework:spring-webmvc
org.springframework:spring-aop
org.springframework:spring-beans
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org.springframework:spring-expression
org.webjars:swagger-ui
org.webjars:webjars-locator-core
org.slf4j:slf4j-api:jar
com.fasterxml.jackson.core:jackson-core
io.github.classgraph:classgraph

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com.fasterxml.jackson.datatype.jsr310.JSR310Module

----------------------------
io.swagger.core.v3:swagger-annotations

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jakarta.validation:jakarta.validation-api

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org.springframework:spring-webmvc

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org.springframework:spring-aop

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org.springframework:spring-beans

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org.springframework:spring-context

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org.springframework:spring-jcl

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org.springframework:spring-expression

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org.webjars:swagger-ui
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org.webjars:webjars-locator-core
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org.slf4j:slf4j-api

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com.fasterxml.jackson.core:jackson-core
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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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It is currently developed by a community of developers, as well as supported
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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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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
    2.0.1           2.0+1.6.1   2001        PSF         yes
    2.1.1           2.1+2.0.1   2001        PSF         yes
    2.1.2           2.1.1       2002        PSF         yes
    2.1.3           2.1.2       2002        PSF         yes
    2.2 and above   2.1.1       2001-now    PSF         yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under
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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
    because its license has a choice of law clause.  According to
    CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1
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Thanks to the many outside volunteers who have worked under Guido's
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spring-cloud-stream-binder-kafka-streams

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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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net.jodah:typetools

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com.github.luben:zstd-jni

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org.rocksdb:rocksdbjni

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org.springframework:spring-core
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org.springframework:spring-jcl
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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

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 - 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
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may be obtained from:
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org.hibernate.validator:hibernate-validator
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com.fasterxml.jackson.core:jackson-annotations
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com.fasterxml.jackson.core:jackson-core
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 - javaee_web_services_1_3.xsd
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 - 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
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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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AN
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================================================================================
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    spring-aspects
    spring-beans
    spring-context
    spring-context-indexer
    spring-expression
    spring-jcl
    spring-jdbc
    spring-jms
    spring-messaging
    spring-oxm
    spring-tx
    spring-web
    spring-webmvc
        spring-aop
       spring-context-support
       spring-orm
        spring-instrument
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Fourth party dependency
--------------------
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org.springframework:spring-expression:jar:5.3.19:compile
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PCRE is a library of functions to support regular expressions whose syntax
and semantics are as close as possible to those of the Perl 5 language.
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in the testdata directory is not copyrighted and is in the public domain.
The basic library functions are written in C and are freestanding. Also
included in the distribution is a set of C++ wrapper functions, and a
just-in-time compiler that can be used to optimize pattern matching. These
are both optional features that can be omitted when the library is built.
THE BASIC LIBRARY FUNCTIONS
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  version 1.2.11, January 15th, 2017
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