Oracle® Communications

Network Analytics Suite Licensing Information User Manual

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Oracle Communications Network Analytics Suite Licensing Information User Manual, Release 25.2.200

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Preface

- Documentation Accessibility
- Diversity and Inclusion
- Conventions

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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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by James Random Hacker.

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 *
/* top.c - Source file:         show Linux processes */
/*
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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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 *
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 *
 * tload.c      - terminal version of xload
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 *
 * /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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 *
 * vmstat - report memory statistics
 *
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 *
```


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```
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*
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*
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* Copyright © 1996      Charles Blake
*
* Rewritten, older version:
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*                       with some fixes by Michael K. Johnson.
*
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*
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*
* help.c - ps help output
*
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* output.c - ps output definitions
*
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* parser.c - ps command options parser
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* select.c - ps process selection
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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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 * top.h - Header file:         show Linux processes
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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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 *
 * 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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 *
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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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* stat.c - cpu/numa related definitions for libproc2
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*
* File for parsing top-level /proc entities.
*
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* uptime - uptime related functions - part of libproc2
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*
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*
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 * Fundamental C definitions.
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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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rpmatch.h
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== NAME OF DEPENDENCY 8
signals.c
== License Type
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 * signals.c - signal name, and number, conversions
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signals.h
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strutils.c
```


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 * strutils.c - various string routines shared by commands
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--------------------------------(separator)--------------------------------
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xalloc.h
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/*
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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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------------------------------------------------------------------------------
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  glom
    attrs
    boltons
    face
      boltons
  requests
    certifi
    charset-normalizer
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    urllib3

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attrs

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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:
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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 * [The specification repository](https://github.com/eclipse-ee4j/beanvalidation-spec)
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Name: SFC64

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

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

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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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## Source Code

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* https://github.com/eclipse-ee4j/servlet-api

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

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

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Name: Julia

The ziggurat methods were derived from Julia.
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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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github.com/davecgh/go-spew
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spring-cloud-stream

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Version 2.1, February 1999

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Test dependencies:

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

Other developers who have contributed code are:

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 - 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
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 - web-common_3_1.xsd
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 - web-fragment_3_1.xsd
 - javaee_8.xsd
 - web-app_4_0.xsd
 - web-common_4_0.xsd
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Spring-cloud-starter

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org.springframework.cloud:spring-cloud-starter

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jakarta.annotation:jakarta.annotation-api

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jakarta.annotation:jakarta.annotation-api

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 Other developers who have contributed code are:

 * Brian Langel
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```
  library `Frob' (a library for tweaking knobs) written by James Random Hacker.

  , 1 April 1990
  Ty Coon, President of Vice

That's all there is to it!

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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.slf4j:jul-to-slf4j
jakarta.annotation:jakarta.annotation-api
org.yaml:snakeyaml
org.springframework.data:spring-data-redis
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org.apache.logging.log4j

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io.lettuce:lettuce-core

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    org.springframework:spring-context-support
    org.springframework:spring-beans:jar
    org.springframework:spring-aop
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   Fourth-Party Dependencies

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   org.slf4j:jul-to-slf4j


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spring-boot-starter-webflux

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org.springframework.boot:spring-boot-starter
== NAME OF DEPENDENCY 3
org.springframework.boot:spring-boot
== NAME OF DEPENDENCY 4
org.springframework.boot:spring-boot-autoconfigure
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org.springframework:spring-aop
== NAME OF DEPENDENCY 10
org.springframework:spring-expression
== NAME OF DEPENDENCY 11
org.springframework:spring-webflux
== NAME OF DEPENDENCY 12
org.springframework:spring-core
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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
== NAME OF DEPENDENCY 21
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
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io.netty:netty-transport
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io.netty:netty-codec
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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
== NAME OF DEPENDENCY 37
io.netty:netty-resolver-dns-classes-macos
== NAME OF DEPENDENCY 38
io.netty:netty-transport-native-epoll:linux-x86_64
== NAME OF DEPENDENCY 39
io.netty:netty-transport-native-unix-common
== NAME OF DEPENDENCY 40
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Adapted from a C++ implementation of Chris Doty-Humphrey's SFC PRNG.

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

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Name: PCG64

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PCG Random Number Generation for C.

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

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

Constants used in the rk_double implementation by Isaku Wada.

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Name: Julia

The ziggurat methods were derived from Julia.

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

Dear Matt The C++ code for these distributions without binding to the R project
are available here:
https://www.agner.org/random/stocc.zip
You have my permission to use it in SciPy under the new BSD license.
Best regards,
Agner Fog

On 22/07/2020 17.05, Matt Haberland wrote:
Hi Agner, I'm a maintainer of the Python scientific computing library SciPy,
and I'm working on improving the capabilities of our statistics subpackage
scipy.stats. We'd like to add both Fisher's and Wallenius' noncentral
hypergeometric distributions, but these look quite challenging to implement.
We found your BiasedUrn package, and we'd love to wrap it, but we can't
include GPL-3 licensed code under our BSD-new license. Would you consider
re-licensing BiasedUrn under a more permissive license, such as BSD-new or
MIT, so we can include it in SciPy?
```


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```
Thank you for considering it!
Matt
--
Matt Haberland
Assistant Professor
BioResource and Agricultural Engineering
08A-3K, Cal Poly

--------------------------------------------------------------------------------
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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
    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
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    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
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    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/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
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unuran-1.8.1/doc/src/methods_matr.texi
unuran-1.8.1/doc/src/methods_mcmc.texi
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unuran-1.8.1/doc/src/ref_example0.texi
unuran-1.8.1/doc/src/ref_example0_str.texi
unuran-1.8.1/doc/src/ref_example1.texi
unuran-1.8.1/doc/src/ref_example1_str.texi
unuran-1.8.1/doc/src/ref_example2.texi
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unuran-1.8.1/doc/src/ref_example_anti.texi
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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
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unuran-1.8.1/examples/example3.c
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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_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
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unuran-1.8.1/tests/t_stringparser.c
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unuran-1.8.1/tests/t_tabl.c
unuran-1.8.1/tests/t_tabl.conf
```


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```
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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
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    unuran-1.8.1/tests/t_unur_error.conf
    unuran-1.8.1/tests/t_unur_tests.c
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    unuran-1.8.1/tests/t_urng.c
    unuran-1.8.1/tests/t_urng.conf
    unuran-1.8.1/tests/t_utdr.c
    unuran-1.8.1/tests/t_utdr.conf
    unuran-1.8.1/tests/t_util_matrix.c
    unuran-1.8.1/tests/t_util_matrix.conf
    unuran-1.8.1/tests/t_vempk.c
    unuran-1.8.1/tests/t_vempk.conf
    unuran-1.8.1/tests/t_vnrou.c
    unuran-1.8.1/tests/t_vnrou.conf
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    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.

Constants used in the rk_double implementation by Isaku Wada.

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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
```


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unuran-1.8.1/scripts/win32/example2.c
unuran-1.8.1/scripts/win32/make_dll_def.pl
unuran-1.8.1/src/Makefile.am
unuran-1.8.1/src/Makefile.in
unuran-1.8.1/src/README
unuran-1.8.1/src/distr/Makefile.am
unuran-1.8.1/src/distr/Makefile.in
unuran-1.8.1/src/distributions/Makefile.am
unuran-1.8.1/src/distributions/Makefile.in
unuran-1.8.1/src/distributions/README
unuran-1.8.1/src/methods/Makefile.am
unuran-1.8.1/src/methods/Makefile.in
unuran-1.8.1/src/parser/Makefile.am
unuran-1.8.1/src/parser/Makefile.in
unuran-1.8.1/src/parser/functparser_doc.dh
unuran-1.8.1/src/parser/make_stringparser.pl
unuran-1.8.1/src/parser/stringparser_doc.dh
unuran-1.8.1/src/specfunct/Makefile.am
unuran-1.8.1/src/specfunct/Makefile.in
unuran-1.8.1/src/tests/Makefile.am
unuran-1.8.1/src/tests/Makefile.in
unuran-1.8.1/src/uniform/Makefile.am
unuran-1.8.1/src/uniform/Makefile.in
unuran-1.8.1/src/uniform/fish.c
unuran-1.8.1/src/uniform/mrg31k3p.c
unuran-1.8.1/src/uniform/mstd.c
unuran-1.8.1/src/uniform/unuran_urng_gsl.h
unuran-1.8.1/src/uniform/unuran_urng_prng.h
unuran-1.8.1/src/uniform/unuran_urng_rngstreams.h
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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
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unuran-1.8.1/tests/t_cstd.conf
```


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```
unuran-1.8.1/tests/t_dari.c
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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
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unuran-1.8.1/tests/t_dstd.conf
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unuran-1.8.1/tests/t_empk.conf
unuran-1.8.1/tests/t_empl.c
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unuran-1.8.1/tests/t_gibbs.c
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unuran-1.8.1/tests/t_hist.c
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unuran-1.8.1/tests/t_hrb.conf
unuran-1.8.1/tests/t_hrd.c
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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
```


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```
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unuran-1.8.1/tests/t_norta.conf
unuran-1.8.1/tests/t_nrou.c
unuran-1.8.1/tests/t_nrou.conf
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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
```


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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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org.yaml:snakeyaml
io.swagger.core.v3:swagger-models
jakarta.validation:jakarta.validation-api
org.springframework:spring-webmvc
org.springframework:spring-aop
org.springframework:spring-beans
org.springframework:spring-context
org.springframework:spring-core
org.springframework:spring-jcl
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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jakarta.activation:jakarta.activation-api

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com.fasterxml.jackson.core:jackson-annotations
com.fasterxml.jackson.core:jackson-databind
com.fasterxml.jackson.dataformat:jackson-dataformat-yaml
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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
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jakarta.validation:jakarta.validation-api

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com.fasterxml.jackson.core:jackson-core
# 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
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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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Name: PCG64

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PCG Random Number Generation for C.

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Name: MT19937

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

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

Constants used in the rk_double implementation by Isaku Wada.

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Name: Julia

The ziggurat methods were derived from Julia.

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Components

Many parts of this module have been derived from original sources, often the algorithm's
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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
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releases have also been GPL-compatible; the table below summarizes
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    Release         Derived     Year        Owner       GPL-
                    from                                compatible? (1)

    0.9.0 thru 1.2              1991-1995   CWI         yes
    1.3 thru 1.5.2  1.2         1995-1999   CNRI        yes
    1.6             1.5.2       2000        CNRI        no
    2.0             1.6         2000        BeOpen.com  no
    1.6.1           1.6         2001        CNRI        yes (2)
    2.1             2.0+1.6.1   2001        PSF         no
    2.0.1           2.0+1.6.1   2001        PSF         yes
    2.1.1           2.1+2.0.1   2001        PSF         yes
    2.1.2           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

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========== jakarta.activation-api jakarta.xml.bind-api

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org.springframework:spring-aop
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Other developers who have contributed code are:

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com.github.luben:zstd-jni

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Zstd-jni: JNI bindings to Zstd Library

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    * Providing benchmark suite
  * Alec Wysoker
    * Performance and memory usage improvement

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org.rocksdb:rocksdbjni

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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
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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
 - 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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com.fasterxml.jackson.core:jackson-databind
== NAME OF DEPENDENCY 33
com.fasterxml.jackson.core:jackson-annotations
== NAME OF DEPENDENCY 34
com.fasterxml.jackson.core:jackson-core
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- jakarta_web-services_client_2_0.xsd
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- jsp_3_1.xsd
- web-app_5_0.xsd
- web-app_6_0.xsd
- web-commonn_5_0.xsd
- web-commonn_6_0.xsd
- web-fragment_5_0.xsd
- web-fragment_6_0.xsd
- web-jsptaglibrary_3_0.xsd
- web-jsptaglibrary_3_1.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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PCG Random Number Generation for C.

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Name: MT19937

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

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

Constants used in the rk_double implementation by Isaku Wada.

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Name: Julia

The ziggurat methods were derived from Julia.

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 * org.apache.tomcat:tomcat-jasper-el
 * org.apache.tomcat:tomcat-api
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org.eclipse.jetty.http2:http2-common
== NAME OF DEPENDENCY 2
org.eclipse.jetty.http2:http2-hpack
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@types/http-proxy
@types/node
@types/resize-observer-browser
binary-extensions
bootstrap
braces
call-bind
chokidar
classnames
compute-scroll-into-view7
copy-to-clipboard
crelt
css.escape
deep-equal
deepmerge
define-properties
dom-helpers
dom-serializer
downshift
escape-string-regexp
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fill-range
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function-bind
functions-have-names
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gud
has-property-descriptors
has-symbols
has-tostringtag
has
history
htmlparser2
http-proxy-middleware
http-proxy
immutable
is-arguments
is-binary-path
is-date-object
is-extglob
is-glob
is-number
is-plain-obj
is-plain-object
is-regex
isarray
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js-tokens
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micromatch
mini-create-react-context
moment-timezone4
moment
nanoid
normalize-path
object-assign
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parse-srcset
path-to-regexp
picomatch
popper.js
postcss4
prop-types
react-copy-to-clipboard
react-dom
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react-is
react-is
react-lifecycles-compat
react-popper1
react-resize-detector
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react-router
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reactstrap
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regexp.prototype.flags
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AN
Spring Framework

```
================================================================================
    Spring Modules
    -------
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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
================================================================================
Fourth party dependency
--------------------
    aspectjweaver (EPL 2.0)
    -------------
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org.springframework.security:spring-security-core:jar:5.6.3:compile
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org.springframework:spring-expression:jar:5.3.19:compile
org.springframework:spring-aop:jar:5.3.19:compile
org.springframework:spring-beans:jar:5.3.19:compile
org.springframework:spring-context:jar:5.3.19:compile
org.springframework:spring-core:jar:5.3.19:compile
org.springframework:spring-jcl:jar:5.3.19:compile

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