Oracle® Communications

Network Analytics Suite Licensing Information User Manual

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Oracle Communications Network Analytics Suite Licensing Information User Manual, Release 24.2.2

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Contents

1 Introduction

2 Licensing Information

NWDAF Licensing Information 2-1
Data Director Licensing Information 2-5

3 Third-Party Notices and/or Licenses

Commercial Software 3-1
Written Offer for Source Code 3-1
Open Source Disclosure for NWDAF 3-2
Open Source Disclosure for OCNADD 3-63

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1 Introduction

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2
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

NWDAF 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

Table 2-1 Licensing Information

Product	Sub Product	Licensing Information
Oracle Communications Networks Data Analytics Function	Oracle Communications NWDAF, Device State – 25K Active Subscribers	**Description**: The Network Data Analytics Function (NWDAF) standardizes and streamlines how data is collected and how the analytical insights drawn from the network are consumed and distributed across the network to support 5G network operations. It provides standard interfaces for 5G core network functions to deliver and receive (statistical and predictive) performance data and other data sets to and from the NWDAF using a publish/ subscribe or request/response model. Overall, it allows Customers to drive the analytic-driven and closed-loop automation of network functions. It supports the following analytic id's/ categories: • UE Mobility Information • UE Abnormal Behavior Information • UE Communication Information **Prerequisites**: None **Entitled Products and Restricted Use Licenses**: None **Counting Mechanism**: NWDAF counts unique device identifiers as it processes messages.

Table 2-1 (Cont.) Licensing Information

Product	Sub Product	Licensing Information
Oracle Communications Networks Data Analytics Function	Oracle Communications NWDAF, Network State – 25K Active Subscribers	**Description**: The Network Data Analytics Function (NWDAF) standardizes and streamlines how data is collected and how the analytical insights drawn from the network are consumed and distributed across the network to support 5G network operations. It provides standard interfaces for 5G core network functions to deliver and receive (statistical and predictive) performance data and other data sets to and from the NWDAF using a publish/ subscribe or request/response model. Overall, it allows customers to drive the analytic-driven and closed-loop automation of network functions. It supports the following analytic id's/ categories: • Slice Load Level Information • NF Load Information • Network Performance Information • QOS Sustainability **Prerequisites**: None **Entitled Products and Restricted Use Licenses**: None **Counting Mechanism**: NWDAF counts unique device identifiers as it processes messages.

Table 2-1 (Cont.) Licensing Information

Product	Sub Product	Licensing Information
Oracle Communications Networks Data Analytics Function	Oracle Communications Cloud Native Core, NWDAF, Service Experience – per 25K Active Subscribers	The Network Data Analytics Function (NWDAF) standardizes and streamlines how data is collected and how the analytical insights drawn from the network are consumed and distributed across the network to support 5G network operations. It provides standard interfaces for 5G core network functions to deliver and receive (statistical and predictive) performance data and other data sets to and from the NWDAF using a publish/subscribe or request/response model. Overall, it allows customers to drive the analytics-driven and closed-loop automation of network functions. It supports the following analytics id's/categories: • Observed Service Experience Information • User Data Congestion Information **Prerequisites**: None **Entitled Products and Restricted Use Licenses**: None **Counting Mechanism**: NWDAF counts unique device identifiers as it processes messages.

Note:

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

Note:

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

> **Note:**
>
> Oracle cnDBTier, used by NWDAF, must be downloaded separately from the Oracle Software Delivery Cloud as Oracle cnDBTier is not a part of the NWDAF download package. For more information on licensing, refer to the Oracle cnDBTier end-User Licensing Agreement.

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

Table 2-2 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 The 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 interface specification provided in Oracle Communications Network Analytics Data Director Outbound Interface Specification Guide. **Prerequisites**: The following license is a prerequisite to Oracle Communications Network Analytics Data Director, Service Communication Proxy Data Feed. • 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 messages.

Table 2-2 (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 the 5G SBI network traffic mirrored from Network Repository Function (NRF) 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 e2e 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, 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 messages.

Table 2-2 (Cont.) Licensing Information

Product	Sub Product	Licensing Information
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 the 5G SBI network traffic mirrored from 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 e2e 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, 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 messages.

Table 2-2 (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 sub product 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 3rd 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 messages.

Table 2-2 (Cont.) Licensing Information

Product	Sub Product	Licensing Information
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 sub product 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 3rd 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 messages.

Table 2-2 (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 sub product 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 3rd party tools • Data Filtration • xDR for IPX **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 messages.

Table 2-2 (Cont.) Licensing Information

Product	Sub Product	Licensing Information
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 messages.

Table 2-2 (Cont.) Licensing Information

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 messages

Table 2-2 (Cont.) Licensing Information

Product	Sub Product	Licensing Information
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 messages.

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:

- Oracle Coherence Enterprise Edition
- Oracle Coherence Community Edition

3
Third-Party Notices and/or Licenses

Commercial Software

Commercial software products or components distributed in Oracle Communications Cloud Native Core Network Data Analytics Function 24.2.2.0.0 are identified in the following table along with the applicable licensing information.

Vendor	Product(s) and Version(s)	Licensing Description/ Disclaimer
N/A	N/A	N/A

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- 500 Oracle Parkway, 10th Floor
- Redwood Shores, CA 94065

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Table 3-1 License Information

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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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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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```
by James Random Hacker.

signature of Ty Coon, 1 April 1990
Ty Coon, President of Vice

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 *
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 *
 * pgrep/pkill -- utilities to filter the process table
 *
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 * Copyright © 2002-2007 Albert Cahalan
 * Copyright © 2000      Kjetil Torgrim Homme <kjetilho@ifi.uio.no>
 *
 * Sysctl - A utility to read and manipulate the sysctl parameters
 *
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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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 * Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA  02110-1301, USA.
 */
```

```
/*
 * kill.c - send a signal to process
 *
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 * Copyright © 1998-2002 Albert Cahalan
 *
 * pmap.c - print process memory mapping
 *
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 * Copyright © 2011-2012 Sami Kerola <kerolasa@iki.fi>
 * Copyright © 2002-2009 Albert Cahalan
 *
 * pwdx.c - print process working directory
 *
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 *
 * skill.c - send a signal to process
 *
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 * Copyright © 2011-2012 Sami Kerola <kerolasa@iki.fi>
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 *
 * slabtop.c - utility to display kernel slab information.
 *
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 * Copyright © 2011-2012 Sami Kerola <kerolasa@iki.fi>
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 * Copyright © 2003      Chris Rivera <cmrivera@ufl.edu>
 * Copyright © 2003      Robert Love <rml@tech9.net>
 *
 * tload.c      - terminal version of xload
 *
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 * Copyright © 2011-2012 Sami Kerola <kerolasa@iki.fi>
 * 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
 *
 * Copyright © 2002-2023 Craig Small <csmall@dropbear.xyz>
 * Copyright © 2020-2023 Jim Warner <james.warner@comcast.net>
 * Copyright © 2011-2012 Sami Kerola <kerolasa@iki.fi>
 *
 * vmstat - report memory statistics
 *
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 * Copyright © 2011-2012 Sami Kerola <kerolasa@iki.fi>
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 * Copyright © 1994      Henry Ware <al172@yfn.ysu.edu>
 *
```

```
* watch - execute a program repeatedly, displaying output fullscreen
*
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* Copyright © 1999      Mike Coleman <mkc@acm.org>.
*
* w - show what logged in users are doing.
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* Copyright © 2011-2012 Sami Kerola <kerolasa@iki.fi>
* Copyright © 2002-2006 Albert Cahalan
* Copyright © 1996      Charles Blake
*
* Rewritten, older version:
* Copyright © 1993      Larry Greenfield
*                       with some fixes by Michael K. Johnson.
*
* display.c - display ps output
*
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* Copyright © 2012-2014 Jaromir Capik <jcapik@redhat.com
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*
* global.c - generic ps symbols and functions
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* help.c - ps help output
*
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* output.c - ps output definitions
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* Copyright © 2011      Lukas Nykryn <lnykryn@redhat.com>
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*
* parser.c - ps command options parser
*
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* Copyright © 2012-2014 Jaromir Capik <jcapik@redhat.com>
* Copyright © 2011-2012 Sami Kerola <kerolasa@iki.fi>
* Copyright © 1998-2003 Albert Cahalan
*
* select.c - ps process selection
*
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*
* sortformat.c - ps output sorting
```

```
 *
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 * Copyright © 2011-2012 Sami Kerola <kerolasa@iki.fi>
 * Copyright © 1998-2004 Albert Cahalan
 *
 * stacktrace.c - ps debugging additions
 *
 * Gnu debugger stack trace code provided by Peter Mattis
 * <petm@CSUA.Berkeley.EDU> on Thu, 2 Nov 1995
 * Modified for easy use by Albert Cahalan.
 *
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 * Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA  02110-1301  USA
 */

/*
 * common.h - shared header file
 *
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 *
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 *
 * top.h - Header file:         show Linux processes
 *
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 * top_nls.h - provide the basis for future nls translations
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 */
```

```
---------------------------- Fourth-party information ----------------------

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libproc2
== License Type
LGPL-2.1-or-later
== Copyright Notices
/*
 * devname - device name functions
 *
 * Copyright © 2011-2023 Jim Warner <james.warner@comcast.net>
 * Copyright © 2017-2023 Craig Small <csmall@dropbear.xyz>
 * Copyright © 1998-2009 Albert Cahalan
 *
 * diskstats.c - disk I/O related definitions for libproc2
 *
 * Copyright © 2015-2023 Craig Small <csmall@dropbear.xyz>
 * Copyright © 2015-2023 Jim Warner <james.warner@comcast.net>
 * Copyright © 2003      Albert Cahalan
 * Copyright © 2003      Fabian Frederick
 *
 * escape.c - printing handling
 *
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 * Copyright © 2016-2023 Craig Small <csmall@dropbear.xyz>
 * Copyright © 1998-2005 Albert Cahalan
 *
 * meminfo.c - memory related definitions for libproc2
 *
 * Copyright © 2015-2023 Jim Warner <james.warner@comcast.net>
 * Copyright © 2015-2023 Craig Small <csmall@dropbear.xyz>
 *
 * namespace.c - Library API for Linux namespaces
 *
 * Copyright © 2015-2023 Jim Warner <james.warner@comcast.net>
 * Copyright © 2015-2023 Craig Small <csmall@dropbear.xyz>
 *
 * NUMA node support for <PIDS> & <STAT> interfaces
 *
 * Copyright © 2017-2023 Jim Warner <james.warner@comcast.net>
 *
 * pids.c - process related definitions for libproc2
 *
 * Copyright © 2015-2023 Jim Warner <james.warner@comcast.net>
 * Copyright © 2015-2023 Craig Small <csmall@dropbear.xyz>
 *
 * pwcache.c - memory cache passwd file handling
 *
 * Copyright © 2011-2023 Jim Warner <james.warner@comcast.net>
 * Copyright © 2015-2023 Craig Small <csmall@dropbear.xyz>
 * Copyright © 2002      Albert Cahalan
 *
 * Older version:
 * Copyright © 1992-1998 Michael K. Johnson <johnsonm@redhat.com>
 * Note: most likely none of his code remains
 *
 * readproc - interface to process table
 *
 * Copyright © 2002-2023 Craig Small <csmall@dropbear.xyz>
 * Copyright © 2011-2023 Jim Warner <james.warner@comcast.net>
```

```
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* Copyright © 2010-2011 Jan Görig <jgorig@redhat.com>
* Copyright © 1998      Michael K. Johnson
* Copyright © 1996      Charles L. Blake.
*
* slabinfo.c - slab pools related definitions for libproc2
*
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* Copyright © 2004-2006 Albert Cahalan
* Copyright © 2003      Chris Rivera
* Copyright © 2003      Fabian Frederick
*
* stat.c - cpu/numa related definitions for libproc2
*
* Copyright © 2015-2023 Jim Warner <james.warner@comcast.net>
* Copyright © 2015-2023 Craig Small <csmall@dropbear.xyz>
*
* File for parsing top-level /proc entities.
*
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* Copyright © 2011-2023 Craig Small <csmall@dropbear.xyz>
* Copyright © 1998-2008 Albert Cahalan
* Copyright © 1992-1998 Michael K. Johnson <johnsonm@redhat.com>
*
* uptime - uptime related functions - part of libproc2
*
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* Copyright © 2015-2023 Jim Warner <james.warner@comcast.net>
* Copyright © 1998-2003 Albert Cahalan
* Copyright © 1992-1998 Michael K. Johnson <johnsonm@redhat.com>
* Copyright © 1993      J. Cowley
* Copyright © ????      Larry Greenfield <greenfie@gauss.rutgers.edu>
*
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*
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* Copyright © 1996      Charles Blake <cblake@bbn.com>
* Copyright © 1995      Martin Schulze <joey@infodrom.north.de>
*
* wchan.c - kernel symbol handling
*
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*/
```

```
--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY 2
c.h
== License Type
Public Domain
== Copyright Notices
/*
 * This header was copied from util-linux at fall 2011.
 */

/*
 * Fundamental C definitions.
 */

/*
 * Fundamental C definitions.
 *
 * No copyright is claimed.  This code is in the public domain; do with
 * it what you wish.
 */
--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY 3
fileutils.c
== NAME OF DEPENDENCY 4
fileutils.h
== License Type
GPL-2.0
== Copyright Notices


--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY 5
nls.h
== License Type
Public Domain
== Copyright Notices
/*
 * This header was copied from util-linux at fall 2011.
 */

/*
 * No copyright is claimed.  This code is in the public domain; do with
 * it what you wish.
 */
--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY 6
procio.c
procio.h
== License Type
LGPL-2.1+
== Copyright Notices
/*
 * procio.c -- Replace stdio for read and write on files below
 * proc to be able to read and write large buffers as well.
 *
 * Copyright (C) 2017 Werner Fink
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```

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 */

--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY 7
rpmatch.h
== License Type
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== NAME OF DEPENDENCY 8
signals.c
== License Type
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== Copyright Notices
/*
 * signals.c - signal name, and number, conversions
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strutils.c
```

```
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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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This package contains a modified version of ca-bundle.crt:

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

Certificate data from Mozilla as of: Thu Nov  3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt).  This file can be found in the mozilla source tree:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
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can be directly used with curl / libcurl / php_curl, or with
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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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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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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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* https://github.com/eclipse-ee4j/jaxb-api
* https://github.com/eclipse-ee4j/jaxb-tck

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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
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dependencies 1

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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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Spring Cloud Stream

spring-cloud-stream

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Other developers who have contributed code are:

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 - jsp_2_2.xsd
 - web-app_3_0.xsd
 - web-common_3_0.xsd
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 - jsp_2_3.xsd
 - web-app_3_1.xsd
 - web-common_3_1.xsd
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 - web-fragment_3_1.xsd
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Spring-cloud-starter

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jakarta.annotation:jakarta.annotation-api

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org.apache.logging.log4j:log4j-api

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jakarta.annotation:jakarta.annotation-api

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# Jackson JSON processor

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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
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jakarta.activation:jakarta.activation-api

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org.springframework.boot:spring-boot:
org.springframework.boot:spring-boot-autoconfigure:

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org.springframework:spring-context:jar:
org.springframework:spring-aop:jar:
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------------------------------------------------------------------------------

--------------------------------(separator)--------------------------------

logback:logback-core
logback:logback-classic

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 - javaee_web_services_client_1_3.xsd
 - jsp_2_2.xsd
 - web-app_3_0.xsd
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```
 - 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
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may be obtained from:
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 * [The TCK repository](https://github.com/eclipse-ee4j/beanvalidation-tck)

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Other developers who have contributed code are:

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spring-boot-starter-data-redis

```
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   Top Level component - 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
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io.lettuce:lettuce-core

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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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    Fourth-Party Dependencies

    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
    org.springframework.boot:spring-boot-autoconfigure
    org.springframework.boot:spring-boot-starter-logging

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

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   org.slf4j:slf4j-api
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    ------------------------------------------
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```

```
================================================================================================
================
Fourth-Party Dependencies
micrometer-observation
micrometer-common

Micrometer

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    org.apache.tomcat.embed    tomcat-embed-websocket
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JDT Core Batch Compiler component, which is open source software.
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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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The original XML Schemas for Java EE Deployment Descriptors:
- javaee_5.xsd
- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
- javaee_8.xsd
- web-app_4_0.xsd
- web-common_4_0.xsd
- web-fragment_4_0.xsd

may be obtained from:
http://www.oracle.com/webfolder/technetwork/jsc/xml/ns/javaee/index.html

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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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io.micrometer:micrometer-observation
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io.projectreactor:reactor-core
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org.slf4j:jul-to-slf4j
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org.apache.logging.log4j:log4j-to-slf4j
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io.prometheus:simpleclient_tracer_otel
== NAME OF DEPENDENCY 5
io.prometheus:simpleclient_tracer_common
== NAME OF DEPENDENCY 6
io.prometheus:simpleclient_tracer_otel_agent
== NAME OF DEPENDENCY 7
io.prometheus:simpleclient_common
== NAME OF DEPENDENCY 8
io.prometheus:simpleclient_httpserver
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linenoise
lua
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fpconv

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hdr_histogram

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Written in 2015 by Sebastiano Vigna (vigna@acm.org)
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Name: SFC64

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

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

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

    unuran-1.8.1/COPYING
    unuran-1.8.1/INSTALL
    unuran-1.8.1/Makefile.am
    unuran-1.8.1/Makefile.in
    unuran-1.8.1/NEWS
    unuran-1.8.1/UPGRADE
    unuran-1.8.1/acinclude.m4
    unuran-1.8.1/aclocal.m4
    unuran-1.8.1/autoconf/config.guess
    unuran-1.8.1/autoconf/config.sub
    unuran-1.8.1/autoconf/depcomp
    unuran-1.8.1/autoconf/install-sh
    unuran-1.8.1/autoconf/ltmain.sh
    unuran-1.8.1/autoconf/mdate-sh
    unuran-1.8.1/autoconf/missing
    unuran-1.8.1/autogen.sh
    unuran-1.8.1/configure
    unuran-1.8.1/doc/Makefile.am
    unuran-1.8.1/doc/Makefile.in
    unuran-1.8.1/doc/figures/Makefile.am
    unuran-1.8.1/doc/figures/Makefile.in
    unuran-1.8.1/doc/figures/discrete_inversion.eps
    unuran-1.8.1/doc/figures/discrete_inversion.pdf
    unuran-1.8.1/doc/figures/discrete_inversion.png
    unuran-1.8.1/doc/figures/discrete_inversion.txt
    unuran-1.8.1/doc/figures/inversion.eps
    unuran-1.8.1/doc/figures/inversion.pdf
    unuran-1.8.1/doc/figures/inversion.png
    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
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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/glossary.dh
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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
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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
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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
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unuran-1.8.1/scripts/remove_comments.pl
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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_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_tabl.c
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    unuran-1.8.1/tests/t_urng.conf
    unuran-1.8.1/tests/t_utdr.c
    unuran-1.8.1/tests/t_utdr.conf
    unuran-1.8.1/tests/t_util_matrix.c
    unuran-1.8.1/tests/t_util_matrix.conf
    unuran-1.8.1/tests/t_vempk.c
    unuran-1.8.1/tests/t_vempk.conf
    unuran-1.8.1/tests/t_vnrou.c
    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
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    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
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    unuran-1.8.1/src/methods/deprecated_vmt.h
    unuran-1.8.1/src/methods/deprecated_vmt_struct.h
    unuran-1.8.1/src/parser/stringparser_lists.ch.in

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

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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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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
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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
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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
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unuran-1.8.1/src/tests/Makefile.in
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unuran-1.8.1/src/urng/Makefile.in
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```

```
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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
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unuran-1.8.1/tests/testdistributions/c_wo_logpdf.c
unuran-1.8.1/tests/testdistributions/testdistributions.h
unuran-1.8.1/tests/testdistributions/vc_cauchy_RoU_ball.c
unuran-1.8.1/tests/testdistributions/vc_special_correlations_ar1.c
unuran-1.8.1/tests/testdistributions/vc_special_correlations_constantrho.c
unuran-1.8.1/tests/testdistributions/vc_w_marginals.c
unuran-1.8.1/tests/testdistributions/vc_wo_logpdf.c
```

```
    unuran-1.8.1/tests/testroutines.c
    unuran-1.8.1/tests/testunuran.h
    unuran-1.8.1/src/distr/deprecated_distr.c
    unuran-1.8.1/src/distr/deprecated_distr.h
    unuran-1.8.1/src/methods/deprecated_methods.c
    unuran-1.8.1/src/methods/deprecated_methods.h
    unuran-1.8.1/src/methods/deprecated_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: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
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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
```

```
# Jackson JSON processor

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

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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 been in development since 2007.
It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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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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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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Name: nympy.core.ma

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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 from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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

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========== javax.servlet-api jaxb-api activation

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Source Code The project maintains the following source code repositories: * https://github.com/eclipse-ee4j/common-annotations-api

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spring-cloud-function-context
spring-cloud-function-core
--
spring-boot-starter-validation
spring-boot-starter
spring-boot-autoconfigure
--
spring-integration-jmx
spring-integration-core
spring-integration-kafka
--
org.springframework:spring-aop
org.springframework:spring-beans
org.springframework:spring-context
org.springframework:spring-core
org.springframework:spring-messaging
org.springframework:spring-tx
--
spring-messaging
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jackson-annotations
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annotations
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hibernate-validator
--
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org.springframework.cloud:spring-cloud-stream-binder-kafka-core
org.springframework.cloud:spring-cloud-stream
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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_web_services_1_3.xsd
 - javaee_web_services_client_1_3.xsd
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 - 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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Other developers who have contributed code are:

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ch.randelshofer:fastdoubleparser

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This project provides parsers for double, float, BigDecimal and BigInteger values.
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 - javaee_web_services_client_1_3.xsd
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- jsp_2_2.xsd
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- web-common_3_0.xsd
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Java Script Extension Toolkit

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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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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
eventemitter3
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follow-redirects
function-bind
functions-have-names
get-intrinsic
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has-property-descriptors
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has
history
htmlparser2
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http-proxy
immutable
is-arguments
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is-regex
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micromatch
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moment-timezone4
moment
nanoid
normalize-path
object-assign
object-is
object-keys
parse-srcset
path-to-regexp
picomatch
popper.js
postcss4
prop-types
react-copy-to-clipboard
react-dom
react-infinite-scroll-component
react-is
react-is
react-lifecycles-compat
react-popper1
react-resize-detector
react-router-dom
react-router
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react-shallow-renderer
react-test-renderer
react
reactstrap
readdirp
regenerator-runtime
regexp.prototype.flags
requires-port
resize-observer-polyfill
resolve-pathname
sanitize-html
scheduler
style-mod
tempusdominus-bootstrap-4
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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
org.springframework.security:spring-security-crypto:jar:5.6.3:compile
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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