# Oracle® Communications

# Network Analytics Suite Licensing Information User Manual

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Oracle Communications Network Analytics Suite Licensing Information User Manual, Release 24.3.0.0.1

G12510-04

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AG Java Script Extension Toolkit

AH The PyData Development Team

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AJ Info-ZIP

AK Node Fetch Team

AL Steven Chim

AM Prometheus

AN Spring Framework

AO Spring IO

AP NGINX

# 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

## 2.1 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.<br>Overall, it allows Customers to drive the analytic-driven and closed-loop automation of network functions.<br>It supports the following analytic id's/ categories:<br>• UE Mobility Information<br>• UE Abnormal Behavior Information<br>• UE Communication Information<br>**Prerequisites**: None<br>**Entitled Products and Restricted Use Licenses**: None<br>**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.<br>Overall, it allows customers to drive the analytic-driven and closed-loop automation of network functions.<br>It supports the following analytic id's/ categories:<br>• Slice Load Level Information<br>• NF Load Information<br>• Network Performance Information<br>• QOS Sustainability<br>**Prerequisites**: None<br>**Entitled Products and Restricted Use Licenses**: None<br>**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.<br>Overall, it allows customers to drive the analytics-driven and closed-loop automation of network functions.<br>It supports the following analytics id's/categories:<br>• Observed Service Experience Information<br>• User Data Congestion Information<br>**Prerequisites**: None<br>**Entitled Products and Restricted Use Licenses**: None<br>**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.

## 2.2 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.<br>Data Director also supports Non-Oracle Service Communication Proxy which follow interface specification provided in *Oracle Communications Network Analytics Data Director Outbound Interface Specification Guide*.<br>**Prerequisites**: The following license is a prerequisite to Oracle Communications Network Analytics Data Director, Service Communication Proxy Data Feed. Prerequisite applicable only for Oracle Communications Cloud Native Core, Service Communication Proxy.<br>• Oracle Communications Cloud Native Core, Service Communication Proxy - 25K Active Subscribers<br>**Entitled Products and Restricted Use Licenses**: None<br>**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.<br>**Prerequisites**: The following license is a prerequisite to Oracle Communications Network Analytics Data Director, Network Repository Function Data Feed.<br>• Oracle Communications Cloud Native Core, Network Repository Function - 25K Active Subscribers<br>**Entitled Products and Restricted Use Licenses**: None<br>**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.<br>**Prerequisites**: The following license is a prerequisite to Oracle Communications Network Analytics Data Director, Security Edge Protection Proxy Data Feed.<br>• Oracle Communications Cloud Native Core, Security Edge Protection Proxy - 25K Active Subscribers<br>**Entitled Products and Restricted Use Licenses**: None<br>**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, Binding Support 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 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 e2e security of SBI messages and delivers the data through standardized interfaces.<br>**Prerequisites**: The following license is a prerequisite to Oracle Communications Network Analytics Data Director, Binding Support Function Data Feed.<br>• Oracle Communications Cloud Native Core, Binding Support Function - 25K Active Subscribers<br>**Entitled Products and Restricted Use Licenses**: None<br>**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 subproduct adds the following optional features to theOracle Communications Network Analytics Data Director, Service Communication Proxy Data Feed<br>• Data Replication<br>• Synthetic L2/L7 packet over TCP/TLS tunnel to 3rd party tools<br>• Data Filtration<br>**Prerequisites**: The following license is a prerequisite to Oracle Communications Network Analytics Data Director, Service Communication Proxy Advanced Packet Processing.<br>• Oracle Communications Network Analytics Data Director, Service Communication Proxy Data Feed<br>**Entitled Products and Restricted Use Licenses**: None<br>**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 subproduct adds the following optional features to theOracle Communications Network Analytics Data Director, Network Repository Function Data Feed<br>• Data Replication<br>• Synthetic L2/L7 packet over TCP/TLS tunnel to 3rd party tools<br>• Data Filtration<br>**Prerequisites**: The following license is a prerequisite to Oracle Communications Network Analytics Data Director, Network Repository Function Advanced Packet Processing.<br>• Oracle Communications Network Analytics Data Director, Network Repository Function Data Feed<br>**Entitled Products and Restricted Use Licenses**: None<br>**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 subproduct adds the following optional features to theOracle Communications Network Analytics Data Director, Security Edge Protection Proxy Data Feed<br>• Data Replication<br>• Synthetic L2/L7 packet over TCP/TLS tunnel to 3rd party tools<br>• Data Filtration<br>**Prerequisites**: The following license is a prerequisite to Oracle Communications Network Analytics Data Director, Security Edge Protection Proxy Advanced Packet Processing.<br>• Oracle Communications Network Analytics Data Director, Security Edge Protection Proxy Data Feed<br>**Entitled Products and Restricted Use Licenses**: None<br>**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, Binding Support Function Advanced Packet Processing - Network-Wide Message per Second | **Description**: This subproduct adds the following optional features to theOracle Communications Network Analytics Data Director, Binding Support Function Data Feed<br>• Data Replication<br>• Synthetic L2/L7 packet over TCP/TLS tunnel to 3rd party tools<br>• Data Filtration<br>**Prerequisites**: The following license is a prerequisite to Oracle Communications Network Analytics Data Director, Binding Support Function Advanced Packet Processing.<br>• Oracle Communications Network Analytics Data Director, Binding Support Function Data Feed<br>**Entitled Products and Restricted Use Licenses**: None<br>**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<br>• xDR and Reports<br>• xDR Storage and Delivery<br>• PCAP Export<br>• Selective Trace Generation<br>• Filtering for Tracing and xDR<br>**Prerequisites:** The following license is a prerequisite to Oracle Communications Network Analytics Data Director, Service Communication Proxy Tracing and xDR Packet Processing<br>• Oracle Communications Network Analytics Data Director, Service Communication Proxy Data Feed<br>**Entitled Products and Restricted Use Licenses:** None<br>**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<br>• xDR and Reports<br>• xDR Storage and Delivery<br>• PCAP Export<br>• Selective Trace Generation<br>• Filtering for Tracing and xDR<br>**Prerequisites:** The following license is a prerequisite to Oracle Communications Network Analytics Data Director, Network Repository Function Tracing and xDR Packet Processing<br>• Oracle Communications Network Analytics Data Director, Network Repository Function Data Feed<br>**Entitled Products and Restricted Use Licenses:** None<br>**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<br>• xDR and Reports<br>• xDR Storage and Delivery<br>• PCAP Export<br>• Selective Trace Generation<br>– Filtering for Tracing and xDR<br>**Prerequisites:** The following license is a prerequisite to Oracle Communications Network Analytics Data Director, Security Edge Protection Proxy Tracing and xDR Packet Processing<br>• Oracle Communications Network Analytics Data Director, Security Edge Protection Proxy Data Feed<br>**Entitled Products and Restricted Use Licenses:** None<br>**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, 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<br>• xDR and Reports<br>• xDR Storage and Delivery<br>• PCAP Export<br>• Selective Trace Generation<br>– Filtering for Tracing and xDR<br>**Prerequisites:** The following license is a prerequisite to Oracle Communications Network Analytics Data Director, Binding Support Function Tracing and xDR Packet Processing<br>• Oracle Communications Network Analytics Data Director, Binding Support Function Data Feed<br>**Entitled Products and Restricted Use Licenses:** None<br>**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

## 3.1 Commercial Software

Commercial software products or components distributed in Oracle Communications Cloud Native Core 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 |

## 3.2 Written Offer for Source Code

For third party technology that you receive from Oracle in binary form which is licensed under an open source license that gives you the right to receive the source code for that binary, you can obtain a copy of the applicable source code from this page. If the source code for the technology was not provided to you with the binary, you can also receive a copy of the source code on physical media by submitting a written request to:

- Oracle America, Inc.
- Attn: Associate General Counsel
- Development and Engineering Legal
- 500 Oracle Parkway, 10th Floor
- Redwood Shores, CA 94065

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# 3.3 Open Source Disclosure for NWDAF

Required notices for open source or other separately licensed software products or components distributed in Oracle Communications NWDAF are identified in the following sections along with the applicable licensing information. Additional notices and/or licenses may be found in the included documentation or readme files of the individual third party software.

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

**Table 3-1 License Information**

| Vendor | Product(s) and Version(s) | Licensing Description/Disclaimer |
|---|---|---|
| Amenezes | config-client 1.4.0 | Amenezes |
| Encode OSS Ltd | uvicorn 0.27.1 | Encode OSS Ltd |
| FasterXML, LLC | jackson-dataformat-yaml 2.16.0 | jackson-dataformat-yaml |
| FasterXML, LLC | jackson-datatype-jsr310 2.16.0 | jackson-datatype-jsr310 |

**Table 3-1 (Cont.) License Information**

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| MapLibre | MapLibre GL 4.2.0 | MapLibre |
| Michael Bayer | SQLAlchemy 2.0.26 | Michael Bayer |
| Microsoft Corporation | onnxruntime python 1.15.1 | Microsoft Corporation |
| Multiple Contributors | react-router-dom 6.13.0 | Multiple Contributors |
| NumPy Developers | NumPy 1.26.0 | NumPy Developers |

**Table 3-1 (Cont.) License Information**

| Vendor | Product(s) and Version(s) | Licensing Description/Disclaimer |
|---|---|---|
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**Table 3-1 (Cont.) License Information**

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| | | util/unlink.py<br>----------<br><br>backport from python3 Lib/test/support.py |

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If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

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

```
<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year>  <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.
```

```
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    MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
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Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

    Gnomovision version 69, Copyright (C) year name of author
    Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
    This is free software, and you are welcome to redistribute it
    under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License.  Of course, the commands you use may
be called something other than `show w' and `show c'; they could even be
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary.  Here is a sample; alter the names:

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  `Gnomovision' (which makes passes at compilers) written by James Hacker.

  <signature of Ty Coon>, 1 April 1989
  Ty Coon, President of Vice

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Version 2.1, February 1999

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 as the successor of the GNU Library Public License, version 2, hence
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Preamble

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```

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When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

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For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

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

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

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

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

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.
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0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

    a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(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.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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

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

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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Ty Coon, President of Vice

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Version 2, June 1991

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[This is the first released version of the library GPL.  It is
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Preamble

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To protect your rights, we need to make restrictions that forbid anyone to deny you
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these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

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Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

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

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

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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    b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
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    d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

    (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.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to

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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
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 *
 * Sysctl - A utility to read and manipulate the sysctl parameters
 *
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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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 * 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>
 * Copyright © 1998-2002 Albert Cahalan
 *
 * 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>
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 *
 * 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 © 2003      Fabian Frederick
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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 © 2004-2023 Craig Small <csmall@dropbear.xyz>
* 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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 *
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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
 *
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 * Copyright © 2015-2023 Jim Warner <james.warner@comcast.net>
 * Copyright © 2003      Albert Cahalan
 * Copyright © 2003      Fabian Frederick
 *
 * escape.c - printing handling
 *
 * Copyright © 2011-2023 Jim Warner <james.warner@comcast.net>
 * 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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*
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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.
 *
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rpmatch.h
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--------------------------------(separator)--------------------------------
== NAME OF DEPENDENCY 8
signals.c
== License Type
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 * signals.c - signal name, and number, conversions
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strutils.c
```

```
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 */

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

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

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```

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certifi
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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 * [The specification repository](https://github.com/eclipse-ee4j/beanvalidation-spec)
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https://gist.github.com/imneme/f1f7821f07cf76504a97f6537c818083

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

Constants used in the rk_double implementation by Isaku Wada.

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Name: Julia

The ziggurat methods were derived from Julia.

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Name: Random

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Components

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Name: nympy.core.ma

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

Constants used in the rk_double implementation by Isaku Wada.

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The ziggurat methods were derived from Julia.

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Name: nympy.core.ma

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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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Version 2.1, February 1999

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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_3.xsd
 - javaee_web_services_client_1_3.xsd
 - jsp_2_2.xsd
 - web-app_3_0.xsd
 - web-common_3_0.xsd
 - web-fragment_3_0.xsd
 - javaee_7.xsd
 - javaee_web_services_1_4.xsd
 - javaee_web_services_client_1_4.xsd
 - jsp_2_3.xsd
 - web-app_3_1.xsd
 - web-common_3_1.xsd
```

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 - 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

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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```
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jakarta.activation:jakarta.activation-api

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

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


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

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logback:logback-classic

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 - web-app_3_0.xsd
 - web-common_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
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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:

* Brian Langel
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### spring-boot-starter-data-redis

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Fourth party dependencies

org.springframework.boot:spring-boot-starter-data-redis
org.springframework.boot:spring-boot-starter
org.springframework.boot:spring-boot
org.springframework:spring-context
org.springframework:spring-expression
org.springframework.boot:spring-boot-autoconfigure
org.springframework.boot:spring-boot-starter-logging
ch.qos.logback:logback-classic
ch.qos.logback:logback-core

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org.apache.logging.log4j
org.slf4j:jul-to-slf4j
jakarta.annotation:jakarta.annotation-api
org.yaml:snakeyaml
org.springframework.data:spring-data-redis
org.springframework.data:spring-data-keyvalue
org.springframework.data:spring-data-commons
org.springframework:spring-tx
org.springframework:spring-beans
org.springframework:spring-oxm
org.springframework:spring-aop
org.springframework:spring-context-support
org.slf4j:slf4j-api
io.lettuce:lettuce-core
io.netty:netty-common
io.netty:netty-handler
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io.lettuce:lettuce-core

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    * https://github.com/JCTools/JCTools

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    * http://www.jcraft.com/jzlib/

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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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   jakarta.annotation:jakarta.annotation-api
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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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ch.randelshofer:fastdoubleparser

Notice:

# 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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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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hiredis
linenoise
lua
hdr_histogram
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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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?
```

```
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.txt
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    unuran-1.8.1/doc/figures/rou-cauchy.txt
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    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/unuran_win32.texi
unuran-1.8.1/doc/unuran_win32_libname.texi
unuran-1.8.1/doc/version.texi
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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
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unuran-1.8.1/experiments/timings_chap_10.conf
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unuran-1.8.1/tests/t_dari.c
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unuran-1.8.1/tests/t_distr_cemp.conf
unuran-1.8.1/tests/t_distr_condi.c
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unuran-1.8.1/tests/t_distr_cont.c
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    unuran-1.8.1/tests/t_tdr_gw.conf
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    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
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    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_wo_logpdf.c
    unuran-1.8.1/tests/testdistributions/testdistributions.h
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    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_anti.c
unuran-1.8.1/examples/example_anti_str.c
unuran-1.8.1/examples/example_cext.c
unuran-1.8.1/examples/example_cont.c
unuran-1.8.1/examples/example_cont_str.c
unuran-1.8.1/examples/example_cpp.cpp
unuran-1.8.1/examples/example_dext.c
unuran-1.8.1/examples/example_discr.c
unuran-1.8.1/examples/example_discr_str.c
unuran-1.8.1/examples/example_emp.c
unuran-1.8.1/examples/example_emp_str.c
unuran-1.8.1/examples/example_errorhandler.c
unuran-1.8.1/examples/example_gsl.c
unuran-1.8.1/examples/example_mcorr.c
unuran-1.8.1/examples/example_mixt.c
unuran-1.8.1/examples/example_mixt_inv.c
unuran-1.8.1/examples/example_prng.c
unuran-1.8.1/examples/example_prng_str.c
unuran-1.8.1/examples/example_rngstreams.c
unuran-1.8.1/examples/example_vemp.c
unuran-1.8.1/experiments/Makefile.am
unuran-1.8.1/experiments/Makefile.in
unuran-1.8.1/experiments/make_timing_table.c
unuran-1.8.1/experiments/timings_chap_10.conf
unuran-1.8.1/experiments/timings_chap_8.conf
unuran-1.8.1/scripts/Makefile.am
unuran-1.8.1/scripts/Makefile.in
unuran-1.8.1/scripts/compute_machine_constants.c
unuran-1.8.1/scripts/make_urng_header.pl
unuran-1.8.1/scripts/merge_h.pl
unuran-1.8.1/scripts/read_PDF.pl
unuran-1.8.1/scripts/remove_comments.pl
unuran-1.8.1/scripts/run_valgrind.sh
unuran-1.8.1/scripts/win32/Makefile.win32
unuran-1.8.1/scripts/win32/build.sh
unuran-1.8.1/scripts/win32/example1.c
```

```
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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
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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/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
```

# X

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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
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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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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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https://github.com/JuliaLang/julia/contributors

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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
designer. Component licenses are located with the component code.

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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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### spring-cloud-stream-binder-kafka-streams

spring-cloud-stream-binder-kafka-streams

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spring-cloud-function-core
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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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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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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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@codemirror/commands
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@codemirror/view
@forevolve/bootstrap-dark
@fortawesome/react-fontawesome7
@hypnosphi/create-react-context
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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
eventemitter3
fill-range
follow-redirects
function-bind
functions-have-names
get-intrinsic
github.com/Azure/azure-sdk-for-go
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gud
has-property-descriptors
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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
jquery
js-tokens
lodash
loose-envify
micromatch
mini-create-react-context
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
    -------
    spring-core
    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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