License Guide - Perpetual

Oracle FLEXCUBE Universal Banking

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1. Preface

1.1 Introduction

This document helps you understand the guiding rules for Oracle FLEXCUBE Universal Banking licensing, the components included in the license, and the units that are separately licensed.

This document also provides information on the third party software that are packaged with Oracle FLEXCUBE Universal Banking.

1.2 Audience

This document is intended for the following audience:

- Customers
- Partners

1.3 Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at http://www.oracle.com/pls/topic/lookupctx=acc&id=docacc.

1.4 Organization

This manual is organized into the following chapters:

Chapter	Description
Chapter 1	*Preface* gives information on the intended audience. It also lists the various chapters covered in this license guide.
Chapter 2	*Oracle FLEXCUBE Universal Banking Licensing* provides information on Oracle FLEXCUBE Universal Banking licensing.
Chapter 3	*Software Pre-requisites* consists of the technology pre-requisites required for Oracle FLEXCUBE Universal Banking.
Chapter 4	*Third Party Licenses* provides information on licensing of third party software that are packaged with Oracle FLEXCUBE Universal Banking.

1.5 Related Documents

For more information, refer to the following documents:

- End user license agreement
- Oracle FLEXCUBE User Manuals

2. Oracle FLEXCUBE Universal Banking Licensing

2.1 Introduction

This chapter provides information on Oracle FLEXCUBE Universal Banking licensing. It contains the following sections:

- General licensing rules
- Components included in the license
- Separately licensed pre-requisite products and licensing metric
- Restricted use license

2.2 General Licensing Rules

The following table lists out the modules, which are primarily retail or corporate. The licensing rule against each of them defines how these modules will get licensed based on the usage of the bank.

Sl. No.	Module Description	Licensing Rule(s)
Retail Modules		
1	Oracle FLEXCUBE Universal Banking Current Accounts and Savings Accounts	If the customer is using Universal Banking for Retail programs, these applications may only be licensed by the Account metric. However, if the customer is using Universal Banking for Corporate, and is not using Universal Banking for Retail, then a customer may license these programs under the Application User metric.
2	Oracle FLEXCUBE Universal Banking Standing Instructions	

Sl. No.	Module Description	Licensing Rule(s)
Corporate Modules		
3	Oracle FLEXCUBE Universal Banking Nostro Reconciliation	If the customer is using Universal Banking for Corporate programs, these applications may only be licensed by the Application User. However, if the customer is using Universal Banking for Retail, and is not using Universal Banking for Corporate, then a customer may license these programs under the Account metric.
4	Oracle FLEXCUBE Universal Banking Commercial Leasing	
5	Oracle FLEXCUBE Integration Gateway	

2.3 Components Included in License

The following components are included in the Oracle FLEXCUBE Universal Banking license:

1. Signature Verification: is included with Oracle FLEXCUBE Universal Banking Current Accounts and Savings Accounts license.
2. Islamic Banking Support: The following Oracle FLEXCUBE Universal Banking module licenses have support for Islamic Banking.
   - Oracle FLEXCUBE Universal Banking Base
   - Oracle FLEXCUBE Universal Banking Asset Management
   - Oracle FLEXCUBE Universal Banking Current Accounts and Savings Accounts
   - Oracle FLEXCUBE Universal Banking Fixed Assets
   - Oracle FLEXCUBE Universal Banking Relationship Pricing
   - Oracle FLEXCUBE Universal Banking Retail and Small and Medium Enterprise Loans
   - Oracle FLEXCUBE Universal Banking Term Deposits
   - Oracle FLEXCUBE Universal Banking Islamic Commercial Lending and Leasing

2.4 Separately Licensed Pre-requisite Products and Licensing Metric

The module wise list of separately licensed products and the licensing metric is given below.

For other separately licensable software pre-requisites, refer to the section Software Pre-requisites.

Module Description	Separately Licensed Prerequisites	Licensing Metric(s)

Oracle FLEXCUBE Universal Banking Base	• Oracle FLEXCUBE Development Workbench • Oracle FLEXCUBE Integration Gateway • Oracle Database Enterprise Edition, Partitioning, Application Development Framework	• Account • Financial Inclusion Account
Oracle FLEXCUBE Universal Banking Current Accounts and Savings Accounts	• Oracle FLEXCUBE Universal Banking Base	• Application User • Custom Suite User • Account • Financial Inclusion Account
Oracle FLEXCUBE Universal Banking Relationship Pricing	• Oracle FLEXCUBE Universal Banking Base • Either Oracle FLEXCUBE Universal Banking Current Accounts & SavingsAccounts OR Oracle FLEXCUBE Universal Banking Term Deposits	• Account
Oracle FLEXCUBE Universal Banking Term Deposits	• Oracle FLEXCUBE Universal Banking Base	• Account
Oracle FLEXCUBE Universal Banking Retail and Small and Medium Enterprise Loans	• Oracle FLEXCUBE Universal Banking Base	• Account • Financial Inclusion Account
Oracle FLEXCUBE Universal Banking Nostro Reconciliation	• Oracle FLEXCUBE Universal Banking Base	• Application User • Custom Suite User • Account
Oracle FLEXCUBE Universal Banking Standing Instructions	• Oracle FLEXCUBE Universal Banking Base	• Application User • Custom Suite User • Account
Oracle FLEXCUBE Universal Banking ATM Interface	• Oracle FLEXCUBE Universal Banking Base	• Account • Financial Inclusion Account
Oracle FLEXCUBE Universal Banking Point of Sale Interface	• Oracle FLEXCUBE Universal Banking Base	• Account • Financial Inclusion Account

Oracle FLEXCUBE Universal Banking Interactive Voice Response Interface	• Oracle FLEXCUBE Universal Banking Base	• Account
Oracle FLEXCUBE Universal Banking Mortgages	• Oracle FLEXCUBE Universal Banking Base	• Account
Oracle FLEXCUBE Universal Banking Consumer Leasing	• Oracle FLEXCUBE Universal Banking Base	• Account
Oracle FLEXCUBE Universal Banking Commercial Leasing	• Oracle FLEXCUBE Universal Banking Base	• Application User • Custom Suite User • Account
Oracle FLEXCUBE Universal Banking Inventory Management	• Oracle FLEXCUBE Universal Banking Base • Oracle FLEXCUBE Universal Banking Current Accounts & Savings Accounts	• Account
Oracle FLEXCUBE Universal Banking Microfinance	• Oracle FLEXCUBE Universal Banking Base • Oracle FLEXCUBE Universal Banking Retail and Small and Medium Enterprise Loans	• Account
Oracle FLEXCUBE Universal Banking Safe Deposit Box	• Oracle FLEXCUBE Universal Banking Base	• Account
Oracle FLEXCUBE Universal Banking Corporate Deposits	NA	• Application User • Custom Suite User
Oracle FLEXCUBE Universal Banking Fixed Assets	NA	• Application User • Custom Suite User
Oracle FLEXCUBE Universal Banking Asset Management	• Oracle Banking Treasury Management	• Application User • Custom Suite User
Oracle FLEXCUBE Universal Banking Expense Processing	NA	• Application User • Custom Suite User

Oracle FLEXCUBE Universal Banking Islamic Commercial Lending and Leasing	• Oracle FLEXCUBE Universal Banking Base	• Account • Application User • Custom Suite User
Oracle FLEXCUBE Open Development Tools		
Oracle FLEXCUBE Development Workbench	• Either of FLEXCUBE Universal Banking for Corporate (by Application User/Custom Suite User) or FLEXCUBE Universal Banking Base (Account) or Banking Enterprise Limits Management, Banking Collateral Management or Banking Corporate Lending or Banking Payments or Banking Trade Finance or Banking Treasury Management	• Application User
Oracle FLEXCUBE Interfaces and Tools		
Oracle FLEXCUBE Integration Gateway	• • Either of FLEXCUBE Universal Banking for Corporate (by Application User/Custom Suite User) or FLEXCUBE Universal Banking Base (Account) or Banking Enterprise Limits Management, Banking Collateral Management or Banking Corporate Lending or Banking Payments or Banking Trade Finance or Banking Treasury Management	• 10K API Calls • Account • Processor • Financial Inclusion Account

When licensing Oracle FLEXCUBE Universal Banking modules by Account metric, quantity of Accounts licensed for each Oracle FLEXCUBE Universal Banking module including Base must be same. The sum of Accounts across all licensed modules (excluding Base) on Account metric is to be used as the quantity to be licensed. For example, if customer needs 1,000,000 Accounts of Current Accounts and Savings Accounts, 400,000 Accounts of Term Deposits and 100,000 Accounts of Retail and Small and Medium Enterprise Loans; quantity of 1,500,000 Accounts needs to be licensed for each of Base, Current Accounts and Savings Accounts, Term Deposits and Retail and Small and Medium Enterprise Loans modules.

When licensing Oracle FLEXCUBE Universal Banking modules by Custom Suite User metric, quantity of CAS users licensed for each Oracle FLEXCUBE Universal Banking module must be the same.

NOTE: # For sending SWIFT FIN messages generated in FLEXCUBE to SWIFT network or for sending FIN messages from SWIFT network to FLEXCUBE, Oracle Banking SWIFT Connectivity Pack SKU needs to be licensed.

2.5 Restricted Use License

The following modules have restricted features or functionality for use under the license metric Financial Inclusion Account.

Product or Component	Restrictions/Features Omitted
Oracle FLEXCUBE Universal Banking Base	• Customer creation along with account creation is done in a single go without the option of Signature capture and verification. • These customers will not have the Limits linkage • Only Individual type of customers alone can be created. (Corporate/ Bank kind of customers cannot be created)
Oracle FLEXCUBE Universal Banking Current Accounts and Savings Accounts	• System will allow the FI customer to open only a Single Holder savings CASA account and in branch currency only • Temporary OD on FI customer's CASA accounts is allowed for a short term without attaching any collateral or credit line backing. • Allow mapping an account class with only a single IC product of type "Interest". This IC product is restricted to contain only general conditions and One Debit and One Credit product attached to it. • Check book and Debit card features are not available for FI customer accounts. • The account cannot be salary account

Product or Component	Restrictions/Features Omitted
Oracle Banking Branch	• Allow only the below Branch transactions for a FI customer, • Cash Deposit • Cash Withdrawal • Transfers • Utility payment without external Utility Provider interface
Oracle FLEXCUBE Universal Banking ATM Interface	No restrictions brought in.
Oracle FLEXCUBE Integration Gateway	No restrictions brought in.
Oracle FLEXCUBE Universal Banking Retail and Small and Medium Enterprise Loans	• Following loan features are not available for Financial Inclusion Customer ▪ Origination / Onboarding ▪ Auto disbursement ▪ Rate revisions ▪ Provisioning ▪ Re-negotiation ▪ Amendments • FI Loans are only created in Branch currency • A new screen is made available for loan account input for FI customer
Oracle FLEXCUBE Universal Banking Point of Sale Interface	No restrictions brought in.

3. Software Pre-requisites

Following are the separately licensable software prerequisites for Oracle FLEXCUBE Universal Banking Products.

3.1 Software Prerequisites

3.1.1 Tech Stack – Oracle

Component	Machine	Operating System	Software	Version Number
Oracle FLEXCUBE Universal Banking	Application Server	Oracle Enterprise Linux Server 8.7 (x86 64 Bit)	Oracle WebLogic Server	14.1.2.0.0
			Java HotSpot(TM) JDK (with WebLogic Application Server)	17.0.18
	Database Server	Oracle Enterprise Linux Server 8.7 (x86 64 Bit)	Oracle RDBMS Enterprise Edition	19.29.0.0.0
	UI	Oracle Enterprise Linux Server 8.7 (x86 64 Bit)	Oracle JET	18.1.0
	Client Machines Important - Browser Support is strictly tied to the Browser itself , and no longer based on the Operating System.		Mozilla Firefox	132+
			Microsoft Edge	131+
			Apple Safari	17+
			Google Chrome	131+
Oracle FLEXCUBE Machine Learning	Machine Learning Server	Oracle Enterprise Linux Server 8.7 (x86 64 Bit)	OML4R (Previously Oracle R Enterprise)	1.5.1
Oracle FLEXCUBE Oracle Digital Assistant Integration	Application Server	Oracle Enterprise Linux Server 8.7 (x86 64 Bit)	oda-native-client-sdk-js	20.3.1

Notes:

- Browser support is no longer based on Operating Systems but strictly tied to the browsers themselves, no matter which Operating Systems they are installed on. Current release is certified on client workstations with Windows 7, 8, 10, and Mac OS X.
- For detailed information on Browser Support, please refer to the Oracle Software Web Browser Support Policy at http://www.oracle.com/middleware/technologies/browser-policy.html.
- Oracle Applications are developed and tested on Oracle Linux, which is optimized for performance, stability, and security.

3.2 Module-wise Software Prerequisites

Product Name	Product Version	Requirements
Oracle Fusion Middleware Infrastructure	14.1.2.0.0	Optional - Oracle FLEXCUBE Universal Banking and Oracle FLEXCUBE Universal Banking Integration Gateway supports both Oracle Weblogic Server (Fusion Middleware) and WebSphere.
Java HotSpot(TM) JDK (with WebLogic Application Server)	17.0.18	Optional – Required for Oracle FLEXCUBE Universal Banking and Oracle FLEXCUBE Universal Banking Integration Gateway on WebLogic.
Open Symphony Quartz	2.4.0	Standard requirement
Oracle RDBMS Enterprise Edition	19.29.0.0.0	Standard requirement

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======= Top level component jjwt-jackson 0.12.6
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======= Fourth party dependencies

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======= #01 jjwt-api #02 jackson-databind #03 jackson-annotations #04 jackson-core

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======= Fourth party #01 jjwt-api

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gunicorn.logging_config

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util/unlink.py
---

backport from python3 Lib/test/support.py

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

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

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Release	Derived from	Year	Owner	GPL-compatible? (1)
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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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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

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

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
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2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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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 https://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

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

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
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All Python releases are Open Source (see https://opensource.org for
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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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
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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 https://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

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

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

All Python releases are Open Source (see https://opensource.org for
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releases have also been GPL-compatible; the table below summarizes

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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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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spring-ai-starter-mcp-server-webflux

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Other developers who have contributed code are:

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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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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became

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Portions of code from MODP_ASCII - Ascii transformations (upper/lower, etc)
https://github.com/client9/stringencoders

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"numpy" doesn't have any dependencies
pandas needs "python-dateutil"
"python-dateutil" needs "six"
"six" doesn't have any dependencies

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dateutil - Extensions to the standard Python datetime module.

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The zlib License could have been used instead of the Modified (3-clause) BSD License, and since the IJG License effectively subsumes the distribution conditions of the zlib License, this would have effectively placed libjpeg-turbo binary distributions under the IJG License. However, the IJG License specifically refers to the Independent JPEG Group and does not extend attribution and endorsement protections to other entities. Thus, it was desirable to choose a license that granted us the same protections for new code that were granted to the IJG for code derived from their software.

README.ijg

The Independent JPEG Group's JPEG software
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README for release 10 of 25-Jan-2026
==========

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(previously known as JPEG, together with ITU-T SG16).
DOCUMENTATION ROADMAP
=====================
This file contains the following sections:
OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
ACKNOWLEDGMENTS Special thanks.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.
Other documentation files in the distribution are:
User documentation:
install.txt How to configure and install the IJG software.
usage.txt Usage instructions for cjpeg, djpeg, jpegtran,
rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.txt).
wizard.txt Advanced usage instructions for JPEG wizards only.
cdaltui.txt Description of alternate user interface for cjpeg/djpeg.
change.log Version-to-version change highlights.
Programmer and internal documentation:
libjpeg.txt How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.txt Overview of the JPEG library's internal structure.
filelist.txt Road map of IJG files.
coderules.txt Coding style rules --- please read if you contribute code.
Please read at least the files install.txt and usage.txt. Some information
can also be found in the JPEG FAQ (Frequently Asked Questions) article. See
ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.
If you want to understand how the JPEG code works, we suggest reading one or
more of the REFERENCES, then looking at the documentation files (in roughly
the order listed) before diving into the code.
OVERVIEW
========
This package contains C software to implement JPEG image encoding, decoding,
and transcoding. JPEG (pronounced "jay-peg") is a standardized compression
method for full-color and grayscale images.
This software implements JPEG baseline, extended-sequential, and progressive
compression processes. Provision is made for supporting all variants of these
processes, although some uncommon parameter settings aren't implemented yet.
We have made no provision for supporting the hierarchical or lossless
processes defined in the standard.
We provide a set of library routines for reading and writing JPEG image files,
plus two sample applications "cjpeg" and "djpeg", which use the library to
perform conversion between JPEG and some other popular image file formats.
The library is intended to be reused in other applications.
In order to support file conversion and viewing software, we have included
considerable functionality beyond the bare JPEG coding/decoding capability;
for example, the color quantization modules are not strictly part of JPEG
decoding, but they are essential for output to colormapped file formats or
colormapped displays. These extra functions can be compiled out of the
library if not required for a particular application.
We have also included "jpegtran", a utility for lossless transcoding between
different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple

applications for inserting and extracting textual comments in JFIF files.
The emphasis in designing this software has been on achieving portability and
flexibility, while also making it fast enough to be useful. In particular,
the software is not intended to be read as a tutorial on JPEG. (See the
REFERENCES section for introductory material.) Rather, it is intended to
be reliable, portable, industrial-strength code. We do not claim to have
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The Unix configuration script "configure" was produced with GNU Autoconf.
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The same holds for its supporting scripts (config.guess, config.sub,
ltmain.sh). Another support script, install-sh, is copyright by X Consortium
but is also freely distributable.

REFERENCES

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We recommend reading one or more of these references before trying to
understand the innards of the JPEG software.

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The best short technical introduction to the JPEG compression algorithm is
Wallace, Gregory K. "The JPEG Still Picture Compression Standard",
Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44.
(Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PDF file containing a revised version of Wallace's article is available at https://www.ijg.org/files/Wallace.JPEG.pdf. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.
A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...
The best currently available description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2).
Although this is by far the most detailed and comprehensive exposition of JPEG publicly available, we point out that it is still missing an explanation of the most essential properties and algorithms of the underlying DCT technology.
If you think that you know about DCT-based JPEG after reading this book, then you are in delusion. The real fundamentals and corresponding potential of DCT-based JPEG are not publicly known so far, and that is the reason for all the mistaken developments taking place in the image coding domain.
The original JPEG standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.
IJG JPEG 8 introduced an implementation of the JPEG SmartScale extension which is specified in two documents: A contributed document at ITU and ISO with title "ITU-T JPEG-Plus Proposal for Extending ITU-T T.81 for Advanced Image Coding", April 2006, Geneva, Switzerland. The latest version of this document is Revision 3. And a contributed document ISO/IEC JTC1/SC29/WG1 N 5799 with title "Evolution of JPEG", June/July 2011, Berlin, Germany.
IJG JPEG 9 introduces a reversible color transform for improved lossless compression which is described in a contributed document ISO/IEC JTC1/SC29/WG1 N 6080 with title "JPEG 9 Lossless Coding", June/July 2012, Paris, France.
The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, version 2. JFIF version 1 has been adopted as Recommendation ITU-T T.871 (05/2011) : Information technology - Digital compression and coding of continuous-tone still images: JPEG File Interchange Format (JFIF). It is available as a free download in PDF file format from https://www.itu.int/rec/T-REC-T.871. A PDF file of the older JFIF document is available at https://www.w3.org/Graphics/JPEG/jfif3.pdf.
The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme

found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems.
IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6).
Instead, we recommend the JPEG design proposed by TIFF Technical Note #2
(Compression tag 7). Copies of this Note can be obtained from
https://www.ijg.org/files/. It is expected that the next revision
of the TIFF spec will replace the 6.0 JPEG design with the Note's design.
Although IJG's own code does not support TIFF/JPEG, the free libtiff library
uses our library to implement TIFF/JPEG per the Note.

ARCHIVE LOCATIONS

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The "official" archive site for this software is www.ijg.org.
The most recent released version can always be found there in
directory "files". This particular version will be archived
in Windows-compatible "zip" archive format as
https://www.ijg.org/files/jpegsr10.zip, and
in Unix-compatible "tar.gz" archive format as
https://www.ijg.org/files/jpegsrc.v10.tar.gz.
The JPEG FAQ (Frequently Asked Questions) article is a source of some
general information about JPEG.
It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/
and other news.answers archive sites, including the official news.answers
archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/.
If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu
with body

    send usenet/news.answers/jpeg-faq/part1
    send usenet/news.answers/jpeg-faq/part2

ACKNOWLEDGMENTS

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Thank to Thomas Wiegand and Gary Sullivan for inviting me to the
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Thank to Thomas Richter and Daniel Lee for inviting me to the
ISO/IEC JTC1/SC29/WG1 (previously known as JPEG, together with ITU-T SG16)
meeting in Berlin, Germany.
Thank to John Korejwa and Massimo Ballerini for inviting me to
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and Nina Ssymank for support and public relations.

FILE FORMAT WARS

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The ISO/IEC JTC1/SC29/WG1 standards committee (previously known as JPEG,
together with ITU-T SG16) currently promotes different formats containing

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the name "JPEG" which is misleading because these formats are incompatible
with original DCT-based JPEG and are based on faulty technologies.
IJG therefore does not and will not support such momentary mistakes
(see REFERENCES).
There exist also distributions under the name "OpenJPEG" promoting such
kind of formats which is misleading because they don't support original
JPEG images.
We have no sympathy for the promotion of inferior formats. Indeed, one of
the original reasons for developing this free software was to help force
convergence on common, interoperable format standards for JPEG files.
Don't use an incompatible file format!
(In any case, our decoder will remain capable of reading existing JPEG
image files indefinitely.)
The ISO committee pretends to be "responsible for the popular JPEG" in their
public reports which is not true because they don't respond to actual
requirements for the maintenance of the original JPEG specification.
Furthermore, the ISO committee pretends to "ensure interoperability" with
their standards which is not true because their "standards" support only
application-specific and proprietary use cases and contain mathematically
incorrect code.
There are currently different distributions in circulation containing the
name "libjpeg" which is misleading because they don't have the features and
are incompatible with formats supported by actual IJG libjpeg distributions.
One of those fakes is released by members of the ISO committee and just uses
the name of libjpeg for misdirection of people, similar to the abuse of the
name JPEG as described above, while having nothing in common with actual IJG
libjpeg distributions and containing mathematically incorrect code.
The other one claims to be a "derivative" or "fork" of the original libjpeg,
but violates the license conditions as described under LEGAL ISSUES above
and violates basic C programming properties.
We have no sympathy for the release of misleading, incorrect and illegal
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TO DO
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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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@(#)subr_prf.c 8.3 (Berkeley) 1/21/94

[ccan/build_assert/build_assert.h]
[ccan/check_type/check_type.h]
[ccan/container_of/container_of.h]
[ccan/str/str.h]

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[ccan/list/list.h]

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[coroutine]

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[regenc.c]
[regenc.h]
[regerror.c]
[regexec.c]
[regint.h]
[regparse.c]
[regparse.h]
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[enc/big5.c]
[enc/cp949.c]
[enc/emacs_mule.c]
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[enc/euc_kr.c]
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[enc/utf_32le.c]
[enc/utf_8.c]
[enc/windows_1251.c]
[enc/windows_31j.c]
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[enc/windows_1253.c]
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[enc/trans/GB/UCS%GB12345.src]
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[enc/trans/ucm/windows-950_hkscs-2001.ucm]
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[parse.h]

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[include/ruby/win32.h]
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Coded by Takuji Nishimura and Makoto Matsumoto.
This is a faster version by taking Shawn Cokus's optimization,

Matthe Bellew's simplification, Isaku Wada's real version.
Before using, initialize the state by using init_genrand(seed)
or init_by_array(init_key, key_length).
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[strftime.c]
[include/ruby/st.h]
[missing/acosh.c]
[missing/alloca.c]
[missing/erf.c]
[missing/hypot.c]
[missing/lgamma_r.c]
[missing/memcmp.c]
[missing/memmove.c]
[missing/strchr.c]
[missing/strerror.c]
[missing/strstr.c]
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.
In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see https://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.
In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
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All Python releases are Open Source (see https://opensource.org for
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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
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* files: tqdm/_tqdm.py setup.py README.rst MANIFEST.in .gitignore
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[PR #96]: https://github.com/tqdm/tqdm/pull/96

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==
typing-extensions
==

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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created by Victoria Zhislina, the Senior Application Engineer, Intel Corporation, victoria.zhislina@intel.com

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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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Original algorithm for the implementation of rk_interval function from

Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised by
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Constants used in the rk_double implementation by Isaku Wada.

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PCG Random Number Generation for C.

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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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SPLITMIX64

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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In 1995, Guido continued his work on Python at the Corporation for
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In May 2000, Guido and the Python core development team moved to
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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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<h2>Jason R. Coombs
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<h2>Jonathan E. Taylor, Scipy Developers, statsmodels Developers
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Name: libquadmath

Files: scipy/.dylibs/libquadmath*.so
Description: dynamically linked to files compiled with gcc
Availability: https://gcc.gnu.org/git/?p=gcc.git;a=tree;f=libquadmath
License: LGPL-2.1-or-later

GCC Quad-Precision Math Library
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Written by Francois-Xavier Coudert <fxcoudert@gcc.gnu.org>

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---

scipy 1.17.0 has dependencies on following libraries:

scipy needs "numpy"
"numpy" doesn't have any dependencies

---

package_name: numpy
license_type: BSD-3-Clause AND 0BSD AND MIT AND Zlib AND CC0-1.0
license_text:
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Name: LAPACK
Files: numpy/.dylibs/libscipy_openblas*.so
Description: bundled in OpenBLAS
Availability: https://github.com/OpenMathLib/OpenBLAS/
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Name: GCC runtime library
Files: numpy/.dylibs/libgfortran*, numpy/.dylibs/libgcc*
Description: dynamically linked to files compiled with gcc
Availability: https://gcc.gnu.org/git/?p=gcc.git;a=tree;f=libgfortran
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Version 3.1, 31 March 2009

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<h2>Jonathan Halterman
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json-path

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Fourth Party Dependency #4: slf4j-api
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<h2>Kenneth Reitz

Python Requests

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---------- Separator ----------

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

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

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

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

---------- Separator ----------

Dependency: :charset-normalizer
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Dependency: : idna
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---------- Separator ----------

<h2>LangChain, Inc.
langchain-community

package_name: langchain-community
license_type: MIT
license_text:
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langchain-community 0.3.20 has dependencies on following libraries:

```
langchain-community needs "aiohttp"
        "aiohttp" needs "aiohappyeyeballs"
                "aiohappyeyeballs" doesn't have any dependencies
        "aiohttp" needs "aiosignal"
                "aiosignal" needs "frozenlist"
                        "frozenlist" doesn't have any dependencies
        "aiohttp" needs "attrs"
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        "aiohttp" needs "frozenlist"
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        "aiohttp" needs "multidict"
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        "aiohttp" needs "propcache"
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        "aiohttp" needs "yarl"
                "yarl" needs "idna"
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                "yarl" needs "multidict"
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                "yarl" needs "propcache"
                        "propcache" doesn't have any dependencies
langchain-community needs "dataclasses-json"
        "dataclasses-json" needs "marshmallow"
                "marshmallow" needs "packaging"
                        "packaging" doesn't have any dependencies
        "dataclasses-json" needs "typing-inspect"
                "typing-inspect" needs "mypy-extensions"
                        "mypy-extensions" doesn't have any dependencies
                "typing-inspect" needs "typing_extensions"
                        "typing_extensions" doesn't have any dependencies
langchain-community needs "httpx-sse"
        "httpx-sse" doesn't have any dependencies
langchain-community needs "langchain"
        "langchain" needs "langchain-core"
                "langchain-core" needs "jsonpatch"
                        "jsonpatch" needs "jsonpointer"
                                "jsonpointer" doesn't have any dependencies
                "langchain-core" needs "langsmith"
                        "langsmith" needs "httpx"
                                "httpx" needs "anyio"
                                        "anyio" needs "idna"
                                                "idna" doesn't have any dependencies
                                        "anyio" needs "sniffio"
                                                "sniffio" doesn't have any dependencies
                                        "anyio" needs "typing_extensions"
                                                "typing_extensions" doesn't have any dependencies
                                "httpx" needs "certifi"
                                        "certifi" doesn't have any dependencies
                                "httpx" needs "httpcore"
                                        "httpcore" needs "certifi"
                                                "certifi" doesn't have any dependencies
                                        "httpcore" needs "h11"
                                                "h11" doesn't have any dependencies
```


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"httpx" needs "idna"
"idna" doesn't have any dependencies
"langsmith" needs "orjson"
"orjson" doesn't have any dependencies
"langsmith" needs "packaging"
"packaging" doesn't have any dependencies
"langsmith" needs "pydantic"
"pydantic" needs "annotated-types"
"annotated-types" doesn't have any dependencies
"pydantic" needs "pydantic_core"
"pydantic_core" needs "typing_extensions"
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"langsmith" needs "requests"
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"requests" needs "urllib3"
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"langsmith" needs "requests-toolbelt"
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"idna" doesn't have any dependencies
"requests" needs "urllib3"

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                        "pydantic" needs "typing_extensions"
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                "pydantic" needs "typing_extensions"
                        "typing_extensions" doesn't have any dependencies
        "langchain-core" needs "PyYAML"
                "PyYAML" doesn't have any dependencies
        "langchain-core" needs "tenacity"
                "tenacity" doesn't have any dependencies
        "langchain-core" needs "typing_extensions"
                "typing_extensions" doesn't have any dependencies
langchain-community needs "langsmith"
        "langsmith" needs "httpx"
                "httpx" needs "anyio"
                        "anyio" needs "idna"
                                "idna" doesn't have any dependencies
                        "anyio" needs "sniffio"
                                "sniffio" doesn't have any dependencies
                        "anyio" needs "typing_extensions"
                                "typing_extensions" doesn't have any dependencies
                "httpx" needs "certifi"
                        "certifi" doesn't have any dependencies
                "httpx" needs "httpcore"
                        "httpcore" needs "certifi"
                                "certifi" doesn't have any dependencies
                        "httpcore" needs "h11"
                                "h11" doesn't have any dependencies
                "httpx" needs "idna"
                        "idna" doesn't have any dependencies
        "langsmith" needs "orjson"
                "orjson" doesn't have any dependencies
```


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```
        "langsmith" needs "packaging"
                "packaging" doesn't have any dependencies
        "langsmith" needs "pydantic"
                "pydantic" needs "annotated-types"
                        "annotated-types" doesn't have any dependencies
                "pydantic" needs "pydantic_core"
                        "pydantic_core" needs "typing_extensions"
                                "typing_extensions" doesn't have any dependencies
                "pydantic" needs "typing_extensions"
                        "typing_extensions" doesn't have any dependencies
        "langsmith" needs "requests"
                "requests" needs "certifi"
                        "certifi" doesn't have any dependencies
                "requests" needs "charset-normalizer"
                        "charset-normalizer" doesn't have any dependencies
                "requests" needs "idna"
                        "idna" doesn't have any dependencies
                "requests" needs "urllib3"
                        "urllib3" doesn't have any dependencies
        "langsmith" needs "requests-toolbelt"
                "requests-toolbelt" needs "requests"
                        "requests" needs "certifi"
                                "certifi" doesn't have any dependencies
                        "requests" needs "charset-normalizer"
                                "charset-normalizer" doesn't have any dependencies
                        "requests" needs "idna"
                                "idna" doesn't have any dependencies
                        "requests" needs "urllib3"
                                "urllib3" doesn't have any dependencies
        "langsmith" needs "zstandard"
                "zstandard" doesn't have any dependencies
langchain-community needs "numpy"
        "numpy" doesn't have any dependencies
langchain-community needs "pydantic-settings"
        "pydantic-settings" needs "pydantic"
                "pydantic" needs "annotated-types"
                        "annotated-types" doesn't have any dependencies
                "pydantic" needs "pydantic_core"
                        "pydantic_core" needs "typing_extensions"
                                "typing_extensions" doesn't have any dependencies
                "pydantic" needs "typing_extensions"
                        "typing_extensions" doesn't have any dependencies
        "pydantic-settings" needs "python-dotenv"
                "python-dotenv" doesn't have any dependencies
langchain-community needs "PyYAML"
        "PyYAML" doesn't have any dependencies
langchain-community needs "requests"
        "requests" needs "certifi"
                "certifi" doesn't have any dependencies
        "requests" needs "charset-normalizer"
                "charset-normalizer" doesn't have any dependencies
        "requests" needs "idna"
                "idna" doesn't have any dependencies
        "requests" needs "urllib3"
                "urllib3" doesn't have any dependencies
langchain-community needs "SQLAlchemy"
        "SQLAlchemy" needs "typing_extensions"
                "typing_extensions" doesn't have any dependencies
```


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langchain-community needs "tenacity"
"tenacity" doesn't have any dependencies

---

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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

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

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

All Python releases are Open Source (see https://opensource.org for
the Open Source Definition). Historically, most, but not all, Python
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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes

1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
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All Python releases are Open Source (see https://opensource.org for
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releases have also been GPL-compatible; the table below summarizes
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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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Files: numpy/.dylibs/libscipy_openblas*.so
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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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Python was created in the early 1990s by Guido van Rossum at Stichting
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as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

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

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

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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no

2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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Name: libquadmath
Files: scipy/.dylibs/libquadmath*.so
Description: dynamically linked to files compiled with gcc

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Availability: https://gcc.gnu.org/git/?p=gcc.git;a=tree;f=libquadmath
License: LGPL-2.1-or-later
    GCC Quad-Precision Math Library
    Copyright (C) 2010-2019 Free Software Foundation, Inc.
    Written by Francois-Xavier Coudert <fxcoudert@gcc.gnu.org>
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---------- Separator ----------
 ./tools/wheels/LICENSE_win32.txt

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In 1995, Guido continued his work on Python at the Corporation for
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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
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2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
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In 1995, Guido continued his work on Python at the Corporation for
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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
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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)
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Authors of snowball arabic stemmer algorithm

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- Abdelkrim Aries
- Lakhdar Benzahia

---

nltk has dependencies on following libraries:

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nltk needs "click"
"click" doesn't have any dependencies
nltk needs "joblib"
"joblib" doesn't have any dependencies
nltk needs "regex"
"regex" doesn't have any dependencies
nltk needs "tqdm"
"tqdm" doesn't have any dependencies

---

package_name: click
license_type: BSD License
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Adapted from a C++ implementation of Chris Doty-Humphrey's SFC PRNG.

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

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PCG Random Number Generation for C.

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

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bzip2/libbzip2 version 1.0.6 of 6 September 2010

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dragon4

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

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(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt
It contains the certificates in PEM format and therefore
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Just configure this file as the SSLCACertificateFile.#

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SHA-1 implementation in NDK

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Written by: Philip Hazel
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Email domain: cam.ac.uk

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

For portions of the Tomcat JNI OpenSSL API and the OpenSSL JSSE integration
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 - javaee_5.xsd
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 - javaee_web_services_client_1_2.xsd
 - javaee_6.xsd
 - javaee_web_services_1_3.xsd
 - javaee_web_services_client_1_3.xsd
 - jsp_2_2.xsd
 - web-app_3_0.xsd
 - web-common_3_0.xsd
 - web-fragment_3_0.xsd
 - javaee_7.xsd
 - javaee_web_services_1_4.xsd
 - javaee_web_services_client_1_4.xsd
 - jsp_2_3.xsd
 - web-app_3_1.xsd
 - web-common_3_1.xsd
 - web-fragment_3_1.xsd
 - javaee_8.xsd
 - web-app_4_0.xsd
 - web-common_4_0.xsd
 - web-fragment_4_0.xsd

may be obtained from:
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// code originates from TypeUtils.java in jtype (http://code.google.com/p/jtype/) and has been modified to suite
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com.fasterxml.jackson.core:jackson-core
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==========
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Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has

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It is currently developed by a community of developers.

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

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

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netty-common
netty-handler
netty-handler-proxy
netty-resolver
netty-resolver-dns
netty-resolver-dns-classes-macos
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Source Code

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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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- javaee_5.xsd
- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
- javaee_8.xsd
- web-app_4_0.xsd
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---

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- statsmodels needs "numpy"
  - "numpy" has bundled license that are listed below
- statsmodels needs "packaging"
  - "packaging" doesn't have any dependencies
- statsmodels needs "pandas"
  - "pandas" needs "numpy"
    - "numpy" has bundled license that are listed below
  - "pandas" needs "python-dateutil"
    - "python-dateutil" needs "six"
      - "six" doesn't have any dependencies
  - "pandas" needs "pytz"
    - "pytz" doesn't have any dependencies
  - "pandas" needs "tzdata"
    - "tzdata" doesn't have any dependencies
- statsmodels needs "patsy"
  - "patsy" needs "numpy"
    - "numpy" has bundled license that are listed below
  - "patsy" needs "six"
    - "six" doesn't have any dependencies
- statsmodels needs "scipy"
  - "scipy" needs "numpy"
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Files: numpy/core/src/multiarray/dragon4.c
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  From the website for the L-BFGS-B code (from at
http://www.ece.northwestern.edu/~nocedal/lbfgsb.html):

"""
L-BFGS-B is a limited-memory quasi-Newton code for bound-constrained
optimization, i.e. for problems where the only constraints are of the
form l<= x <= u.
"""

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

License of L-BFGS-B (Fortran code)
==========

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

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

The Python wrapper
==========

This code uses F2PY (http://cens.ioc.ee/projects/f2py2e/) to generate the wrapper around the Fortran code.

The Python code and wrapper are copyrighted 2004 by David M. Cooke <cookedm@physics.mcmaster.ca>.

Example usage
==========

An example of the usage is given at the bottom of the lbfgsb.py file. Run it with 'python lbfgsb.py'.

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

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iso-schematron.rng

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RNG2Schtrn.xsl

Stylesheet for extracting Schematron information from a RELAX-NG schema.
Based on the stylesheet for extracting Schematron information from W3C XML Schema.
Created by Eddie Robertsson 2002/06/01
2009/12/10 hj: changed Schematron namespace to ISO URI (Holger Joukl)

XSD2Schtrn.xsl
---

based on an original transform by Eddie Robertsson
2001/04/21 fn: added support for included schemas
2001/06/27 er: changed XMl Schema prefix from xsd: to xs: and changed to the Rec namespace
2009/12/10 hj: changed Schematron namespace to ISO URI (Holger Joukl)

==========

Fourth Party Dependency #2 Name: typing-extensions
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A. HISTORY OF THE SOFTWARE
==========

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

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

All Python releases are Open Source (see https://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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Zstd-jni: JNI bindings to Zstd Library

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.
.
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.
== License Type: Apache License 2.0
== License Text : [1]
.
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This project provides parsers for double, float, BigDecimal and BigInteger values.

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JUnRAR (https://github.com/edmund-wagner/junrar/)

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The textbook (containing a proof that the shuffle is uniformly random) is
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The textbook (containing a proof that the shuffle is uniformly random) is
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---
src\main\java\com\ctc\wstx\util\SymbolTable.java

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org.xerial.snappy:snappy-java

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  * Tatu Saloranta
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  * Alec Wysoker
    * Performance and memory usage improvement

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com.google.protobuf:protobuf-java

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

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https://github.com/eclipse-ee4j/injection-tck

Third-party Content

This project leverages the following third party content.

None

Cryptography

None

4th party dependency: jakarta.ws.rs-api

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Source Code

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

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javaee-api (7.0)

* License: Apache-2.0 AND W3C

JUnit (4.11)

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Mockito (2.16.0)

* Project: http://site.mockito.org
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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.

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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
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
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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
- web-fragment_3_1.xsd
- javaee_8.xsd
- web-app_4_0.xsd
- web-common_4_0.xsd
- web-fragment_4_0.xsd

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Scriptable Install System (NSIS), which is
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related information is available at
http://nsis.sourceforge.net.

Java compilation software for JSP pages is provided by the Eclipse
JDT Core Batch Compiler component, which is open source software.
The original software and related information is available at
https://www.eclipse.org/jdt/core/.

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

For portions of the Tomcat JNI OpenSSL API and the OpenSSL JSSE integration
The org.apache.tomcat.jni and the org.apache.tomcat.net.openssl packages
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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

<h2>VMware Incspring-boot-starter-batch

Top Level Component:
---
org.springframework.boot:spring-boot-starter-batch

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Fourth-Party Dependencies

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org.springframework	spring-beans
org.springframework	spring-context
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org.springframework	spring-expression
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org.springframework	spring-tx

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

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

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Dumbster SMTP test server
Copyright 2004 Jason Paul Kitchen

TypeUtil.java
Copyright 2002-2012 Ramnivas Laddad, Juergen Hoeller, Chris Beams

picocli (http://picocli.info)
Copyright 2017 Remko Popma

TimeoutBlockingWaitStrategy.java and parts of Util.java
Copyright 2011 LMAX Ltd.
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  ch.qos.logback logback-core

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org.springframework	spring-context
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ch.qos.logback logback-core

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org.slf4j slf4j-api

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https://github.com/eclipse-ee4j/injection-spec
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Cryptography

None
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=

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Mockito (2.16.0)

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* Source: https://github.com/mockito/mockito/releases/tag/v2.16.0

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==========
===
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tomcat-embed-core
tomcat-embed-el

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org.apache.tomcat.util.json.JSONParser.jj is a public domain javacc grammar
for JSON written by Robert Fischer.
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- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
- javaee_8.xsd

- web-app_4_0.xsd
- web-common_4_0.xsd
- web-fragment_4_0.xsd

may be obtained from:
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Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

* Brian Langel
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antlr antlr4

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spring-security-crypto-5.8.15.jar
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org.springframework.boot	spring-boot-autoconfigure
org.springframework.boot	spring-boot-starter
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org.springframework	spring-beans
org.springframework	spring-context
org.springframework	spring-core
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org.springframework	spring-jcl
org.springframework	spring-web

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ch.qos.logback logback-core

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org.slf4j slf4j-api

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* [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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Test dependencies:

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* [SnakeYAML](https://bitbucket.org/asomov/snakeyaml/src) - Apache License 2.0

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

Other developers who have contributed code are:

* Brian Langel

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jetty-ee10-websocket-jakarta-client
jetty-ee10-websocket-jakarta-common
jetty-ee10-websocket-jakarta-server
jetty-ee10-websocket-jetty-server
jetty-ee10-websocket-servlet
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jetty-util
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 * org.apache.tomcat:tomcat-api
 * org.apache.tomcat:tomcat-util-scan
 * org.apache.tomcat:tomcat-util
 * org.mortbay.jasper:apache-el
 * org.apache.tomcat:tomcat-jasper-el
 * org.apache.tomcat:tomcat-el-api

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

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- javaee_web_services_1_3.xsd
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- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
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Other developers who have contributed code are:

* Brian Langel

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4th party dependency: jakarta.activation-api

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org.hdrhistogram:HdrHistogram

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simpleclient
simpleclient_tracer_otel
simpleclient_tracer_otel_agent
simpleclient_tracer_common

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org.springframework.boot	spring-boot-autoconfigure
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For the following 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

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related information is available at
http://nsis.sourceforge.net.

Java compilation software for JSP pages is provided by the Eclipse
JDT Core Batch Compiler component, which is open source software.
The original software and related information is available at
https://www.eclipse.org/jdt/core/.

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

For portions of the Tomcat JNI OpenSSL API and the OpenSSL JSSE integration
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- javaee_5.xsd
- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
- javaee_8.xsd
- web-app_4_0.xsd
- web-common_4_0.xsd
- web-fragment_4_0.xsd

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

<h2>William Falcon et al.
pytorch-lightning

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---

pytorch-lightning has dependencies on following libraries:
"pytorch-lightning",
"fsspec",
"aiohttp",
"aiohappyeyeballs",
"aiosignal",
"frozenlist",
"typing-extensions",
"attrs",
"multidict",
"propcache",
"yarl",
"idna",
"lightning-utilities",
"packaging",
"setuptools",
"pyyaml",
"torch",
"filelock",
"jinja2",
"markupsafe",
"networkx",
"sympy",
"mpmath",
"torchmetrics",
"numpy",
"tqdm"

---

package_name: fsspec
license_type: BSD License
license_text:
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license_type: Apache-2.0
license_text:

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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 https://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

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

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

All Python releases are Open Source (see https://opensource.org for
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Release	Derived	Year	Owner	GPL-

	from			compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
because its license has a choice of law clause. According to
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Thanks to the many outside volunteers who have worked under Guido's
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 *
 */

/*
 * gettimeofday.c
 *           Win32 gettimeofday() replacement
 *
 * src/port/gettimeofday.c
 *
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```
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/*
 * This file contains a modified version of Ryan Juckett's Dragon4
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 *
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 */
```

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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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Name: numpy.core.ma

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Files: numpy/.dylibs/libquadmath*.so
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

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

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

All Python releases are Open Source (see https://opensource.org for
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releases have also been GPL-compatible; the table below summarizes
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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
because its license has a choice of law clause. According to
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Thanks to the many outside volunteers who have worked under Guido's
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==========
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#01 jjwt-api

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Fourth party #01 jjwt-api

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<h2>jsonwebtoken.iojjwt-jackson

==========

Top level component jjwt-jackson 0.12.6

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io.jsonwebtoken.impl.io.Base64Codec
io.jsonwebtoken.impl.io.Base64InputStream
io.jsonwebtoken.impl.io.Base64OutputStream
io.jsonwebtoken.impl.io.BaseNCodec
io.jsonwebtoken.impl.io.BaseNCodecInputStream
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io.jsonwebtoken.impl.io.FilteredOutputStream
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#02 jackson-databind
#03 jackson-annotations
#04 jackson-core

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```
\documentclass[letterpaper,12pt]{article}
\usepackage[margin=1in]{geometry}
\usepackage{verbatim}
\usepackage{amsmath}
\usepackage{supertabular}
\usepackage{array}

\def\T{{\hbox{\scriptsize{\rm T}}}}
\def\epsilon{\varepsilon}
\def\bigoh{\mathcal{O}}
```


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```
\def\phi{\varphi}
\def\st{{\hbox{\scriptsize{\rm st}}}}
\def\th{{\hbox{\scriptsize{\rm th}}}}
\def\x{\mathbf{x}}


\title{ID: A software package for low-rank approximation
      of matrices via interpolative decompositions, Version 0.4}
\author{Per-Gunnar Martinsson, Vladimir Rokhlin,\\
       Yoel Shkolnisky, and Mark Tygert}


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\tableofcontents

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\centerline{\Large \bf IMPORTANT}

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\noindent At the minimum, please read Subsection~\ref{warning}
and Section~\ref{naming} below, and beware that the {\it N.B.}'s
in the source code comments highlight key information about the routines;
{\it N.B.} stands for {\it nota bene} (Latin for ``note well'').

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\hrule

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\section{Introduction}

This software distribution provides Fortran routines
for computing low-rank approximations to matrices,
in the forms of interpolative decompositions (IDs)
and singular value decompositions (SVDs).
The routines use algorithms based on the ID.
The ID is also commonly known as
the approximation obtained via skeletonization,
the approximation obtained via subsampling,
and the approximation obtained via subset selection.
The ID provides many advantages in many applications,
and we suspect that it will become increasingly popular
once tools for its computation become more widely available.
This software distribution includes some such tools,
as well as tools for computing low-rank approximations

in the form of SVDs.
Section~\ref{defs} below defines IDs and SVDs,
and provides references to detailed discussions of the algorithms
used in this software package.

Please beware that normalized power iterations are better suited than
the software in this distribution
for computing principal component analyses
in the typical case when the square of the signal-to-noise ratio
is not orders of magnitude greater than both dimensions
of the data matrix; see~\cite{halko-martinsson-tropp}.

The algorithms used in this distribution have been optimized
for accuracy, efficiency, and reliability;
as a somewhat counterintuitive consequence, many must be randomized.
All randomized codes in this software package succeed
with overwhelmingly high probability (see, for example,
\cite{halko-martinsson-tropp}).
The truly paranoid are welcome to use the routines {\tt idd_diffsnorm}
and {\tt idz_diffsnorm} to evaluate rapidly the quality
of the approximations produced by the randomized algorithms
(as done, for example, in the files
{\tt idd_a_test.f}, {\tt idd_r_test.f}, {\tt idz_a_test.f},
and {\tt idz_r_test.f} in the {\tt test} subdirectory
of the main directory {\tt id_dist}).
In most circumstances, evaluating the quality of an approximation
via routines {\tt idd_diffsnorm} or {\tt idz_diffsnorm} is much faster
than forming the approximation to be evaluated. Still, we are unaware
of any instance in which a properly-compiled routine failed to produce
an accurate approximation.
To facilitate successful compilation, we encourage the user
to read the instructions in the next section,
and to read Section~\ref{naming}, too.

\section{Compilation instructions}

Followed in numerical order, the subsections of this section
provide step-by-step instructions for compiling the software
under a Unix-compatible operating system.

\subsection{Beware that default command-line flags may not be
sufficient for compiling the source codes!}
\label{warning}

The Fortran source codes in this distribution pass {\tt real*8}
variables as integer variables, integers as {\tt real*8}'s,
{\tt real*8}'s as {\tt complex*16}'s, and so on.
This is common practice in numerical codes, and is not an error;
be sure to provide the relevant command-line flags to the compiler
(for example, run {\tt fort77} and {\tt f2c} with the flag {\tt -!P}).
When following the compilation instructions
in Subsection~\ref{makefile_edit} below,
be sure to set {\tt FFLAGS} appropriately.

\subsection{Install LAPACK}

The SVD routines in this distribution depend on LAPACK.
Before compiling the present distribution,
create the LAPACK and BLAS archive (library) {\tt .a} files;
information about installing LAPACK is available
at {\tt http://www.netlib.org/lapack/} (and several other web sites).

\subsection{Decompress and untar the file {\tt id_dist.tar.gz}}

At the command line, decompress and untar the file
{\tt id_dist.tar.gz} by issuing a command such as
{\tt tar -xvvzf id_dist.tar.gz}.
This will create a directory named {\tt id_dist}.

\subsection{Edit the Makefile}
\label{makefile_edit}

The directory {\tt id_dist} contains a file named {\tt Makefile}.
In {\tt Makefile}, set the following:
%
\begin{itemize}
\item {\tt FC} is the Fortran compiler.
\item {\tt FFLAGS} is the set of command-line flags
    (specifying optimization settings, for example)
    for the Fortran compiler specified by {\tt FC};
    please heed the warning in Subsection~\ref{warning} above!
\item {\tt BLAS_LIB} is the file-system path to the BLAS archive
    (library) {\tt .a} file.
\item {\tt LAPACK_LIB} is the file-system path to the LAPACK archive
    (library) {\tt .a} file.
\item {\tt ARCH} is the archiver utility (usually {\tt ar}).
\item {\tt ARCHFLAGS} is the set of command-line flags
    for the archiver specified by {\tt ARCH} needed
    to create an archive (usually {\tt cr}).
\item {\tt RANLIB} is to be set to {\tt ranlib}
    when {\tt ranlib} is available, and is to be set to {\tt echo}
    when {\tt ranlib} is not available.
\end{itemize}

\subsection{Make and test the libraries}

At the command line in a shell that adheres
to the Bourne shell conventions for redirection, issue the command
``{\tt make clean; make}'' to both create the archive (library)
{\tt id_lib.a} and test it.
(In most modern Unix distributions, {\tt sh} is the Bourne shell,
or else is fully compatible with the Bourne shell;
the Korn shell {\tt ksh} and the Bourne-again shell {\tt bash}
also use the Bourne shell conventions for redirection.)
{\tt make} places the file {\tt id_lib.a}
in the directory {\tt id_dist}; the archive (library) file
{\tt id_lib.a} contains machine code for all user-callable routines
in this distribution.

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\section{Naming conventions}
\label{naming}

The names of routines and files in this distribution
start with prefixes, followed by an underscore (``_").
The prefixes are two to four characters in length,
and have the following meanings:
%
\begin{itemize}
\item The first two letters are always ``{\tt id}",
    the name of this distribution.
\item The third letter (when present) is either ``{\tt d}"
    or ``{\tt z}";
    ``{\tt d}" stands for double precision ({\tt real*8}),
    and ``{\tt z}" stands for double complex ({\tt complex*16}).
\item The fourth letter (when present) is either ``{\tt r}"
    or ``{\tt p}";
    ``{\tt r}" stands for specified rank,
    and ``{\tt p}" stands for specified precision.
    The specified rank routines require the user to provide
    the rank of the approximation to be constructed,
    while the specified precision routines adjust the rank adaptively
    to attain the desired precision.
\end{itemize}

For example, {\tt iddr_aid} is a {\tt real*8} routine which computes
an approximation of specified rank.
{\tt idz_snorm} is a {\tt complex*16} routine.
{\tt id_randperm} is yet another routine in this distribution.

\section{Example programs}

For examples of how to use the user-callable routines
in this distribution, see the source codes in subdirectory {\tt test}
of the main directory {\tt id_dist}.

\section{Directory structure}

The main {\tt id_dist} directory contains a Makefile,
the auxiliary text files {\tt README.txt} and {\tt size.txt},
and the following subdirectories, described in the subsections below:
%
\begin{enumerate}
\item {\tt bin}
\item {\tt development}
\item {\tt doc}
\item {\tt src}
\item {\tt test}
\item {\tt tmp}
\end{enumerate}
%

If a ``{\tt make all}'' command has completed successfully,
then the main {\tt id_dist} directory will also contain
an archive (library) file {\tt id_lib.a} containing machine code
for all of the user-callable routines.

\subsection{Subdirectory {\tt bin}}

Once all of the libraries have been made via the Makefile
in the main {\tt id_dist} directory,
the subdirectory {\tt bin} will contain object files (machine code),
each compiled from the corresponding file of source code
in the subdirectory {\tt src} of {\tt id_dist}.

\subsection{Subdirectory {\tt development}}

Each Fortran file in the subdirectory {\tt development}
(except for {\tt dfft.f} and {\tt prini.f})
specifies its dependencies at the top, then provides a main program
for testing and debugging, and finally provides source code
for a library of user-callable subroutines.
The Fortran file {\tt dfft.f} is a copy of P. N. Swarztrauber's FFTPACK library
for computing fast Fourier transforms.
The Fortran file {\tt prini.f} is a copy of V. Rokhlin's library
of formatted printing routines.
Both {\tt dfft.f} (version 4) and {\tt prini.f} are in the public domain.
The shell script {\tt RUNME.sh} runs shell scripts {\tt make_src.sh}
and {\tt make_test.sh}, which fill the subdirectories {\tt src}
and {\tt test} of the main directory {\tt id_dist}
with source codes for user-callable routines
and with the main program testing codes.

\subsection{Subdirectory {\tt doc}}

Subdirectory {\tt doc} contains this documentation,
supplementing comments in the source codes.

\subsection{Subdirectory {\tt src}}

The files in the subdirectory {\tt src} provide source code
for software libraries. Each file in the subdirectory {\tt src}
(except for {\tt dfft.f} and {\tt prini.f}) is
the bottom part of the corresponding file
in the subdirectory {\tt development} of {\tt id_dist}.
The file {\tt dfft.f} is just a copy
of P. N. Swarztrauber's FFTPACK library
for computing fast Fourier transforms.
The file {\tt prini.f} is a copy of V. Rokhlin's library
of formatted printing routines.
Both {\tt dfft.f} (version 4) and {\tt prini.f} are in the public domain.

\subsection{Subdirectory {\tt test}}

The files in subdirectory {\tt test} provide source code

for testing and debugging. Each file in subdirectory {\tt test} is
the top part of the corresponding file
in subdirectory {\tt development} of {\tt id_dist},
and provides a main program and a list of its dependencies.
These codes provide examples of how to call the user-callable routines.

\section{Catalog of the routines}

The main routines for decomposing {\tt real*8} matrices are:
%
\begin{enumerate}
%
\item IDs of arbitrary (generally dense) matrices:
{\tt iddp_id}, {\tt iddr_id}, {\tt iddp_aid}, {\tt iddr_aid}
%
\item IDs of matrices that may be rapidly applied to arbitrary vectors
(as may the matrices' transposes):
{\tt iddp_rid}, {\tt iddr_rid}
%
\item SVDs of arbitrary (generally dense) matrices:
{\tt iddp_svd}, {\tt iddr_svd}, {\tt iddp_asvd},\\{\tt iddr_asvd}
%
\item SVDs of matrices that may be rapidly applied to arbitrary vectors
(as may the matrices' transposes):
{\tt iddp_rsvd}, {\tt iddr_rsvd}
%
\end{enumerate}

Similarly, the main routines for decomposing {\tt complex*16} matrices
are:
%
\begin{enumerate}
%
\item IDs of arbitrary (generally dense) matrices:
{\tt idzp_id}, {\tt idzr_id}, {\tt idzp_aid}, {\tt idzr_aid}
%
\item IDs of matrices that may be rapidly applied to arbitrary vectors
(as may the matrices' adjoints):
{\tt idzp_rid}, {\tt idzr_rid}
%
\item SVDs of arbitrary (generally dense) matrices:
{\tt idzp_svd}, {\tt idzr_svd}, {\tt idzp_asvd},\\{\tt idzr_asvd}
%
\item SVDs of matrices that may be rapidly applied to arbitrary vectors
(as may the matrices' adjoints):
{\tt idzp_rsvd}, {\tt idzr_rsvd}
%
\end{enumerate}

This distribution also includes routines for constructing pivoted QR
decompositions (in {\tt idd_qrpiv.f} and {\tt idz_qrpiv.f}), for
estimating the spectral norms of matrices that may be applied rapidly
to arbitrary vectors as may their adjoints (in {\tt idd_snorm.f}
and {\tt idz_snorm.f}), for converting IDs to SVDs (in
{\tt idd_id2svd.f} and {\tt idz_id2svd.f}), and for computing rapidly
arbitrary subsets of the entries of the discrete Fourier transforms

of vectors (in {\tt idd_sfft.f} and {\tt idz_sfft.f}).

\subsection{List of the routines}

The following is an alphabetical list of the routines
in this distribution, together with brief descriptions
of their functionality and the names of the files containing
the routines' source code:

\begin{center}
%
\tablehead{\bf Routine & \bf Description & \bf Source file \\}
\tabletail{\hline}
%
\begin{supertabular}{>{\raggedright}p{1.2in} p{.53\textwidth} l}
%
\hline
{\tt id_frand} & generates pseudorandom numbers drawn uniformly from
the interval $[0,1]$; this routine is more efficient than routine
{\tt id_srand}, but cannot generate fewer than 55 pseudorandom numbers
per call & {\tt id_rand.f} \\\hline
%
{\tt id_frandi} & initializes the seed values for routine
{\tt id_frand} to specified values & {\tt id_rand.f} \\\hline
%
{\tt id_frando} & initializes the seed values for routine
{\tt id_frand} to their original, default values & {\tt id_rand.f}
\\\hline
%
{\tt id_randperm} & generates a uniformly random permutation &
{\tt id_rand.f} \\\hline
%
{\tt id_srand} & generates pseudorandom numbers drawn uniformly from
the interval $[0,1]$; this routine is less efficient than routine
{\tt id_frand}, but can generate fewer than 55 pseudorandom numbers
per call & {\tt id_rand.f} \\\hline
%
{\tt id_srandi} & initializes the seed values for routine
{\tt id_srand} to specified values & {\tt id_rand.f} \\\hline
%
{\tt id_srando} & initializes the seed values for routine
{\tt id_srand} to their original, default values & {\tt id_rand.f}
\\\hline
%
{\tt idd_copycols} & collects together selected columns of a matrix &
{\tt idd_id.f} \\\hline
%
{\tt idd_diffsnorm} & estimates the spectral norm of the difference
between two matrices specified by routines for applying the matrices
and their transposes to arbitrary vectors; this routine uses the power
method with a random starting vector & {\tt idd_snorm.f} \\\hline
%
{\tt idd_enorm} & calculates the Euclidean norm of a vector &
{\tt idd_snorm.f} \\\hline
%
{\tt idd_estrank} & estimates the numerical rank of an arbitrary
(generally dense) matrix to a specified precision; this routine is

randomized, and must be initialized with routine {\tt idd_frmi} &
{\tt iddp_aid.f} \\\hline
%
{\tt idd_frm} & transforms a vector into a vector which is
sufficiently scrambled to be subsampled, via a composition of Rokhlin's
random transform, random subselection, and a fast Fourier transform &
{\tt idd_frm.f} \\\hline
%
{\tt idd_frmi} & initializes routine {\tt idd_frm} & {\tt idd_frm.f}
\\\hline
%
{\tt idd_getcols} & collects together selected columns of a matrix
specified by a routine for applying the matrix to arbitrary vectors &
{\tt idd_id.f} \\\hline
%
{\tt idd_house} & calculates the vector and scalar needed to apply the
Householder transformation reflecting a given vector into its first
entry & {\tt idd_house.f} \\\hline
%
{\tt idd_houseapp} & applies a Householder matrix to a vector &
{\tt idd_house.f} \\\hline
%
{\tt idd_id2svd} & converts an approximation to a matrix in the form
of an ID into an approximation in the form of an SVD &
{\tt idd_id2svd.f} \\\hline
%
{\tt idd_ldiv} & finds the greatest integer less than or equal to a
specified integer, that is divisible by another (larger) specified
integer & {\tt idd_sfft.f} \\\hline
%
{\tt idd_pairsamps} & calculates the indices of the pairs of integers
that the individual integers in a specified set belong to &
{\tt idd_frm.f} \\\hline
%
{\tt idd_permmult} & multiplies together a bunch of permutations &
{\tt idd_qrpiv.f} \\\hline
%
{\tt idd_qinqr} & reconstructs the Q matrix in a QR decomposition
from the output of routines {\tt iddp_qrpiv} or {\tt iddr_qrpiv} &
{\tt idd_qrpiv.f} \\\hline
%
{\tt idd_qrmatmat} & applies to multiple vectors collected together as
a matrix the Q matrix (or its transpose) in the QR decomposition of
a matrix, as described by the output of routines {\tt iddp_qrpiv} or
{\tt iddr_qrpiv}; to apply Q (or its transpose) to a single vector
without having to provide a work array, use routine {\tt idd_qrmatvec}
instead & {\tt idd_qrpiv.f} \\\hline
%
{\tt idd_qrmatvec} & applies to a single vector the Q matrix (or its
transpose) in the QR decomposition of a matrix, as described by the
output of routines {\tt iddp_qrpiv} or {\tt iddr_qrpiv}; to apply Q
(or its transpose) to several vectors efficiently, use routine
{\tt idd_qrmatmat} instead & {\tt idd_qrpiv.f} \\\hline
%
{\tt idd_random_} {\tt transf} & applies rapidly a
random orthogonal matrix to a user-supplied vector & {\tt id_rtrans.f}
\\\hline
%

{\tt idd_random_ transf_init} & \raggedright initializes routines
{\tt idd_random_transf} and {\tt idd_random_transf_inverse} &
{\tt id_rtrans.f} \\\hline
%
{\tt idd_random_} {\tt transf_inverse} & applies
rapidly the inverse of the operator applied by routine
{\tt idd_random_transf} & {\tt id_rtrans.f} \\\hline
%
{\tt idd_reconid} & reconstructs a matrix from its ID &
{\tt idd_id.f} \\\hline
%
{\tt idd_reconint} & constructs P in the ID $A = B \, P$, where the
columns of B are a subset of the columns of A, and P is the
projection coefficient matrix, given {\tt list}, {\tt krank}, and
{\tt proj} output by routines {\tt iddr_id}, {\tt iddp_id},
{\tt iddr_aid}, {\tt iddp_aid}, {\tt iddr_rid}, or {\tt iddp_rid} &
{\tt idd_id.f} \\\hline
%
{\tt idd_sfft} & rapidly computes a subset of the entries of the
discrete Fourier transform of a vector, composed with permutation
matrices both on input and on output & {\tt idd_sfft.f} \\\hline
%
{\tt idd_sffti} & initializes routine {\tt idd_sfft} &
{\tt idd_sfft.f} \\\hline
%
{\tt idd_sfrm} & transforms a vector into a scrambled vector of
specified length, via a composition of Rokhlin's random transform,
random subselection, and a fast Fourier transform & {\tt idd_frm.f}
\\\hline
%
{\tt idd_sfrmi} & initializes routine {\tt idd_sfrm} &
{\tt idd_frm.f} \\\hline
%
{\tt idd_snorm} & estimates the spectral norm of a matrix specified by
routines for applying the matrix and its transpose to arbitrary
vectors; this routine uses the power method with a random starting
vector & {\tt idd_snorm.f} \\\hline
%
{\tt iddp_aid} & computes the ID of an arbitrary (generally dense)
matrix, to a specified precision; this routine is randomized, and must
be initialized with routine {\tt idd_frmi} & {\tt iddp_aid.f}
\\\hline
%
{\tt iddp_asvd} & computes the SVD of an arbitrary (generally dense)
matrix, to a specified precision; this routine is randomized, and must
be initialized with routine {\tt idd_frmi} & {\tt iddp_asvd.f}
\\\hline
%
{\tt iddp_id} & computes the ID of an arbitrary (generally dense)
matrix, to a specified precision; this routine is often less efficient
than routine {\tt iddp_aid} & {\tt idd_id.f} \\\hline
%
{\tt iddp_qrpiv} & computes the pivoted QR decomposition of an
arbitrary (generally dense) matrix via Householder transformations,
stopping at a specified precision of the decomposition &
{\tt idd_qrpiv.f} \\\hline
%
{\tt iddp_rid} & computes the ID, to a specified precision, of a

matrix specified by a routine for applying its transpose to arbitrary
vectors; this routine is randomized & {\tt iddp_rid.f} \\\hline
%
{\tt iddp_rsvd} & computes the SVD, to a specified precision, of a
matrix specified by routines for applying the matrix and its transpose
to arbitrary vectors; this routine is randomized & {\tt iddp_rsvd.f}
\\\hline
%
{\tt iddp_svd} & computes the SVD of an arbitrary (generally dense)
matrix, to a specified precision; this routine is often less efficient
than routine {\tt iddp_asvd} & {\tt idd_svd.f} \\\hline
%
{\tt iddr_aid} & computes the ID of an arbitrary (generally dense)
matrix, to a specified rank; this routine is randomized, and must be
initialized by routine {\tt iddr_aidi} & {\tt iddr_aid.f} \\\hline
%
{\tt iddr_aidi} & initializes routine {\tt iddr_aid} &
{\tt iddr_aid.f} \\\hline
%
{\tt iddr_asvd} & computes the SVD of an arbitrary (generally dense)
matrix, to a specified rank; this routine is randomized, and must be
initialized with routine {\tt idd_aidi} & {\tt iddr_asvd.f}
\\\hline
%
{\tt iddr_id} & computes the ID of an arbitrary (generally dense)
matrix, to a specified rank; this routine is often less efficient than
routine {\tt iddr_aid} & {\tt idd_id.f} \\\hline
%
{\tt iddr_qrpiv} & computes the pivoted QR decomposition of an
arbitrary (generally dense) matrix via Householder transformations,
stopping at a specified rank of the decomposition & {\tt idd_qrpiv.f}
\\\hline
%
{\tt iddr_rid} & computes the ID, to a specified rank, of a matrix
specified by a routine for applying its transpose to arbitrary vectors;
this routine is randomized & {\tt iddr_rid.f} \\\hline
%
{\tt iddr_rsvd} & computes the SVD, to a specified rank, of a matrix
specified by routines for applying the matrix and its transpose to
arbitrary vectors; this routine is randomized & {\tt iddr_rsvd.f}
\\\hline
%
{\tt iddr_svd} & computes the SVD of an arbitrary (generally dense)
matrix, to a specified rank; this routine is often less efficient than
routine {\tt iddr_asvd} & {\tt idd_svd.f} \\\hline
%
{\tt idz_copycols} & collects together selected columns of a matrix &
{\tt idz_id.f} \\\hline
%
{\tt idz_diffsnorm} & estimates the spectral norm of the difference
between two matrices specified by routines for applying the matrices
and their adjoints to arbitrary vectors; this routine uses the power
method with a random starting vector & {\tt idz_snorm.f} \\\hline
%
{\tt idz_enorm} & calculates the Euclidean norm of a vector &
{\tt idz_snorm.f} \\\hline
%
{\tt idz_estrank} & estimates the numerical rank of an arbitrary

(generally dense) matrix to a specified precision; this routine is
randomized, and must be initialized with routine {\tt idz_frmi} &
{\tt idzp_aid.f} \\\hline
%
{\tt idz_frm} & transforms a vector into a vector which is
sufficiently scrambled to be subsampled, via a composition of Rokhlin's
random transform, random subselection, and a fast Fourier transform &
{\tt idz_frm.f} \\\hline
%
{\tt idz_frmi} & initializes routine {\tt idz_frm} & {\tt idz_frm.f}
\\\hline
%
{\tt idz_getcols} & collects together selected columns of a matrix
specified by a routine for applying the matrix to arbitrary vectors &
{\tt idz_id.f} \\\hline
%
{\tt idz_house} & calculates the vector and scalar needed to apply the
Householder transformation reflecting a given vector into its first
entry & {\tt idz_house.f} \\\hline
%
{\tt idz_houseapp} & applies a Householder matrix to a vector &
{\tt idz_house.f} \\\hline
%
{\tt idz_id2svd} & converts an approximation to a matrix in the form
of an ID into an approximation in the form of an SVD &
{\tt idz_id2svd.f} \\\hline
%
{\tt idz_ldiv} & finds the greatest integer less than or equal to a
specified integer, that is divisible by another (larger) specified
integer & {\tt idz_sfft.f} \\\hline
%
{\tt idz_permmult} & multiplies together a bunch of permutations &
{\tt idz_qrpiv.f} \\\hline
%
{\tt idz_qinqr} & reconstructs the Q matrix in a QR decomposition
from the output of routines {\tt idzp_qrpiv} or {\tt idzr_qrpiv} &
{\tt idz_qrpiv.f} \\\hline
%
{\tt idz_qrmatmat} & applies to multiple vectors collected together as
a matrix the Q matrix (or its adjoint) in the QR decomposition of
a matrix, as described by the output of routines {\tt idzp_qrpiv} or
{\tt idzr_qrpiv}; to apply Q (or its adjoint) to a single vector
without having to provide a work array, use routine {\tt idz_qrmatvec}
instead & {\tt idz_qrpiv.f} \\\hline
%
{\tt idz_qrmatvec} & applies to a single vector the Q matrix (or its
adjoint) in the QR decomposition of a matrix, as described by the
output of routines {\tt idzp_qrpiv} or {\tt idzr_qrpiv}; to apply Q
(or its adjoint) to several vectors efficiently, use routine
{\tt idz_qrmatmat} instead & {\tt idz_qrpiv.f} \\\hline
%
{\tt idz_random_ transf} & applies rapidly a random unitary matrix to
a user-supplied vector & {\tt id_rtrans.f} \\\hline
%
{\tt idz_random_ transf_init} & \raggedright initializes routines
{\tt idz_random_transf} and {\tt idz_random_transf_inverse} &
{\tt id_rtrans.f} \\\hline
%

{\tt idz_random_ transf_inverse} & applies rapidly the inverse of
the operator applied by routine {\tt idz_random_transf} &
{\tt id_rtrans.f} \\\hline
%
{\tt idz_reconid} & reconstructs a matrix from its ID &
{\tt idz_id.f} \\\hline
%
{\tt idz_reconint} & constructs P in the ID $A = B \, P$, where the
columns of B are a subset of the columns of A, and P is the
projection coefficient matrix, given {\tt list}, {\tt krank}, and
{\tt proj} output by routines {\tt idzr_id}, {\tt idzp_id},
{\tt idzr_aid}, {\tt idzp_aid}, {\tt idzr_rid}, or {\tt idzp_rid} &
{\tt idz_id.f} \\\hline
%
{\tt idz_sfft} & rapidly computes a subset of the entries of the
discrete Fourier transform of a vector, composed with permutation
matrices both on input and on output & {\tt idz_sfft.f} \\\hline
%
{\tt idz_sffti} & initializes routine {\tt idz_sfft} &
{\tt idz_sfft.f} \\\hline
%
{\tt idz_sfrm} & transforms a vector into a scrambled vector of
specified length, via a composition of Rokhlin's random transform,
random subselection, and a fast Fourier transform & {\tt idz_frm.f}
\\\hline
%
{\tt idz_sfrmi} & initializes routine {\tt idz_sfrm} &
{\tt idz_frm.f} \\\hline
%
{\tt idz_snorm} & estimates the spectral norm of a matrix specified by
routines for applying the matrix and its adjoint to arbitrary
vectors; this routine uses the power method with a random starting
vector & {\tt idz_snorm.f} \\\hline
%
{\tt idzp_aid} & computes the ID of an arbitrary (generally dense)
matrix, to a specified precision; this routine is randomized, and must
be initialized with routine {\tt idz_frmi} & {\tt idzp_aid.f}
\\\hline
%
{\tt idzp_asvd} & computes the SVD of an arbitrary (generally dense)
matrix, to a specified precision; this routine is randomized, and must
be initialized with routine {\tt idz_frmi} & {\tt idzp_asvd.f}
\\\hline
%
{\tt idzp_id} & computes the ID of an arbitrary (generally dense)
matrix, to a specified precision; this routine is often less efficient
than routine {\tt idzp_aid} & {\tt idz_id.f} \\\hline
%
{\tt idzp_qrpiv} & computes the pivoted QR decomposition of an
arbitrary (generally dense) matrix via Householder transformations,
stopping at a specified precision of the decomposition &
{\tt idz_qrpiv.f} \\\hline
%
{\tt idzp_rid} & computes the ID, to a specified precision, of a
matrix specified by a routine for applying its adjoint to arbitrary
vectors; this routine is randomized & {\tt idzp_rid.f} \\\hline
%
{\tt idzp_rsvd} & computes the SVD, to a specified precision, of a

matrix specified by routines for applying the matrix and its adjoint
to arbitrary vectors; this routine is randomized & {\tt idzp_rsvd.f}
\\\hline
%
{\tt idzp_svd} & computes the SVD of an arbitrary (generally dense)
matrix, to a specified precision; this routine is often less efficient
than routine {\tt idzp_asvd} & {\tt idz_svd.f} \\\hline
%
{\tt idzr_aid} & computes the ID of an arbitrary (generally dense)
matrix, to a specified rank; this routine is randomized, and must be
initialized by routine {\tt idzr_aidi} & {\tt idzr_aid.f} \\\hline
%
{\tt idzr_aidi} & initializes routine {\tt idzr_aid} &
{\tt idzr_aid.f} \\\hline
%
{\tt idzr_asvd} & computes the SVD of an arbitrary (generally dense)
matrix, to a specified rank; this routine is randomized, and must be
initialized with routine {\tt idz_aidi} & {\tt idzr_asvd.f}
\\\hline
%
{\tt idzr_id} & computes the ID of an arbitrary (generally dense)
matrix, to a specified rank; this routine is often less efficient than
routine {\tt idzr_aid} & {\tt idz_id.f} \\\hline
%
{\tt idzr_qrpiv} & computes the pivoted QR decomposition of an
arbitrary (generally dense) matrix via Householder transformations,
stopping at a specified rank of the decomposition & {\tt idz_qrpiv.f}
\\\hline
%
{\tt idzr_rid} & computes the ID, to a specified rank, of a matrix
specified by a routine for applying its adjoint to arbitrary vectors;
this routine is randomized & {\tt idzr_rid.f} \\\hline
%
{\tt idzr_rsvd} & computes the SVD, to a specified rank, of a matrix
specified by routines for applying the matrix and its adjoint to
arbitrary vectors; this routine is randomized & {\tt idzr_rsvd.f}
\\\hline
%
{\tt idzr_svd} & computes the SVD of an arbitrary (generally dense)
matrix, to a specified rank; this routine is often less efficient than
routine {\tt idzr_asvd} & {\tt idz_svd.f} \\
%
\end{supertabular}
\end{center}

\section{Documentation in the source codes}

Each routine in the source codes includes documentation
in the comments immediately following the declaration
of the subroutine's calling sequence.
This documentation describes the purpose of the routine,
the input and output variables, and the required work arrays (if any).
This documentation also cites relevant references.
Please pay attention to the {\it N.B.}'s;
{\it N.B.} stands for {\it nota bene} (Latin for ``note well'')
and highlights important information about the routines.

\section{Notation and decompositions}
\label{defs}

This section sets notational conventions employed
in this documentation and the associated software,
and defines both the singular value decomposition (SVD)
and the interpolative decomposition (ID).
For information concerning other mathematical objects
used in the code (such as Householder transformations,
pivoted QR decompositions, and discrete and fast Fourier transforms
--- DFTs and FFTs), see, for example,~\cite{golub-van_loan}.
For detailed descriptions and proofs of the mathematical facts
discussed in the present section, see, for example,
\cite{golub-van_loan} and the references
in~\cite{halko-martinsson-tropp}.

Throughout this document and the accompanying software distribution,
$\| \x \|$ always denotes the Euclidean norm of the vector $\x$,
and $\| A \|$ always denotes the spectral norm of the matrix A.
Subsection~\ref{Euclidean} below defines the Euclidean norm;
Subsection~\ref{spectral} below defines the spectral norm.
We use A^* to denote the adjoint of the matrix A.

\subsection{Euclidean norm}
\label{Euclidean}

For any positive integer n, and vector $\x$ of length n,
the Euclidean (l^2) norm $\| \x \|$ is
%
\begin{equation}
\| \x \| = \sqrt{ \sum_{k=1}^n |x_k|^2 },
\end{equation}
%
where x_1,~x_2, \dots, x_{n-1},~x_n are the entries of $\x$.

\subsection{Spectral norm}
\label{spectral}

For any positive integers m and n, and $m \times n$ matrix A,
the spectral (l^2 operator) norm $\| A \|$ is
%
\begin{equation}
\| A_{m \times n} \|
= \max \frac{\| A_{m \times n} \, \x_{n \times 1} \|}
            {\| \x_{n \times 1} \|},
\end{equation}
%
where the $\max$ is taken over all $n \times 1$ column vectors $\x$
such that $\| \x \| \ne 0$.

\subsection{Singular value decomposition (SVD)}

For any positive real number ϵ,
positive integers k, m, and n with $k \le m$ and $k \le n$,
and any $m \times n$ matrix A,
a rank-k approximation to A in the form of an SVD
(to precision ϵ) consists of an $m \times k$ matrix U
whose columns are orthonormal, an $n \times k$ matrix V
whose columns are orthonormal, and a diagonal $k \times k$ matrix
Σ with diagonal entries
$\Sigma_{1,1} \ge \Sigma_{2,2} \ge \dots \ge \Sigma_{n-1,n-1}
\ge \Sigma_{n,n} \ge 0$,
such that
%
\begin{equation}
\| A_{m \times n} - U_{m \times k} \, \Sigma_{k \times k}
\, (V^*)_{k \times n} \| \le \epsilon.
\end{equation}
%
The product $U \, \Sigma \, V^*$ is known as an SVD.
The columns of U are known as left singular vectors;
the columns of V are known as right singular vectors.
The diagonal entries of Σ are known as singular values.

When $k = m$ or $k = n$, and $A = U \, \Sigma \, V^*$,
then $U \, \Sigma \, V^*$ is known as the SVD
of A; the columns of U are the left singular vectors of A,
the columns of V are the right singular vectors of A,
and the diagonal entries of Σ are the singular values of A.
For any positive integer k with $k < m$ and $k < n$,
there exists a rank-k approximation to A in the form of an SVD,
to precision σ_{k+1}, where σ_{k+1} is the $(k+1)^\st$
greatest singular value of A.

\subsection{Interpolative decomposition (ID)}

For any positive real number ϵ,
positive integers k, m, and n with $k \le m$ and $k \le n$,
and any $m \times n$ matrix A,
a rank-k approximation to A in the form of an ID
(to precision ϵ) consists of a $k \times n$ matrix P,
and an $m \times k$ matrix B whose columns constitute a subset
of the columns of A, such that
%
\begin{enumerate}
\item $\| A_{m \times n} - B_{m \times k} \, P_{k \times n} \|
\le \epsilon$,
\item some subset of the columns of P makes up the $k \times k$
identity matrix, and
\item every entry of P has an absolute value less than or equal
to a reasonably small positive real number, say 2.
\end{enumerate}
%
The product $B \, P$ is known as an ID.
The matrix P is known as the projection or interpolation matrix
of the ID. Property~1 above approximates each column of A
via a linear combination of the columns of B
(which are themselves columns of A), with the coefficients
in the linear combination given by the entries of P.

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The interpolative decomposition is ``interpolative''
due to Property~2 above. The ID is numerically stable
due to Property~3 above.
It follows from Property~2 that the least ($k^\th$ greatest) singular value
of P is at least 1. Combining Properties~2 and~3 yields that
%
\begin{equation}
\| P_{k \times n} \| \le \sqrt{4k(n-k)+1}.
\end{equation}

When $k = m$ or $k = n$, and $A = B \, P$,
then $B \, P$ is known as the ID of A.
For any positive integer k with $k < m$ and $k < n$,
there exists a rank-k approximation to A in the form of an ID,
to precision $\sqrt{k(n-k)+1} \; \sigma_{k+1}$,
where σ_{k+1} is the $(k+1)^\st$ greatest singular value of A
(in fact, there exists an ID in which every entry
of the projection matrix P has an absolute value less than or equal
to 1).

\section{Bug reports, feedback, and support}

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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.

Name: numpy.core.ma

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