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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.

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A software package for low-rank approximation of matrices via interpolative decompositions, Version 0.4

Per-Gunnar Martinsson, Vladimir Rokhlin, Yoel Shkolnisky, and Mark Tygert

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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 $l \leq x \leq u$.

"""

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.

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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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* 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.

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license = 'MIT',
description = 'Tkinter table / sheet widget',
author = 'ragardner',
author_email = 'ragardner@protonmail.com',
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/secure/license_gen.txt:

```
$Id: license_gen.txt,v 2.2 2008/12/17 18:16:30 steview Exp $
```

This document explains how to create a LICENSE file, needed to run XicTools products.

1. The validate program.

LICENSE files are generated with the validate program, which resides in xictools/src/secure. This program is not built automatically, you must cd to that directory and type make validate if the program binary does not currently exist.

The validate program is not intended to be installed globally, but an administrator can move it to an arbitrary location if desired. It is stand-alone and does not access any fixed-location files.

2. Running validate.

2.1 The host name and IP address entries.

There are some important things that need to be known in order to successfully create a LICENSE file. This interface is rather arcane, as this program is not intended for general use.

The licensing keys off of two data items: the "host name" and the IP address. In the simplest form, the host name is the actual machine name, i.e., it never includes the domain components. On Unix/Linux, the "hostname" system command will print the full hostname. For example:

```
> hostname
chaucer.localdomain
```

In this example, the "hostname" for the validate program is "chaucer".

The IP address must be a static IP address that the machine resolves for its own name. It should not be the loopback address (127.0.0.1).

In more complex cases, there are variations.

a) To generate a class C license, i.e., one that will work for any machine in a class C range of addresses, the hostname will be the word

any

and the IP address will be the site's IP, with the last component given as 0, for example

```
126.24.6.0
```

b) Similarly, to generate a class B license, which will enable any host in a class B range, the hostname given should be any b and the IP address will be the site's IP address with the last two components given as 0, for example

```
126.24.0.0
```

c) Using the ethernet address rather than an IP address.

There are times when it is preferable to key off of the machine's hardware (ethernet) address, rather than an IP address. This is necessary, for example, when licensing a single machine and the IP address is non-static.

In this case the hostname takes the form

```
host:xx:xx:xx:xx:xx:xx
```

Where the "host" is the machine name, which is followed by a colon (':'), which is followed by the six-component Ethernet address. There should be no white space, and each address component should be a two-character hex value, 0-padded. For example

```
seattle:00:30:28:c5:94:1e
```




for machine name "seattle" with ethernet address "00:30:28:c5:94:1e".
In this case the IP address **must** be a special "magic" address, which is
192.168.0.1

d) Microsoft Windows support.

This is left undocumented for now.

2.2 The program code.

The program to be licensed is given by a code number. These numbers are listed at the top of the xictools/src/secure/secure.h file, and are

SERVER_CODE	3	(for license server)
XIV_CODE	7	(for Xiv program)
XICII_CODE	9	(for XicII program)
XIC_CODE	11	(for Xic program)
XIC_DAEMON_CODE	12	(For Xic running non-graphically)
WRSPICE_CODE	14	(for the WRspice program)

There is an enabling hierarchy:

The Xic code (11) will also enable Xiv (7), XicII (9), and daemon (12).

The XicII code (9) will also enable Xiv (7).

The license server is no longer itself licensed in the Generation 3 products.

2.3 Overview and running validate.

The LICENSE file consists of up to 64 records. Each record enables a specific program on a specific host, or IP range of hosts in the class B/C variations.

The validate program will prompt, on the command line, for the data needed for each record. At the end of each record, the user is asked whether to create an additional record, or exit.

The validate program takes no arguments under Unix/Linux.

Below are the specific prompts that validate gives for a record.

Program code? [0]

Reply with the program code number from the list in 2.2 above.

Months active? [unlimited]

This specifies the time duration of the license, in months. If you give 0 or just press Enter, there is no time limit.

Otherwise, give a positive number to set the termination date.

Hostname (+/-)? [yourhost]

Give the host name string as described in 2.1 above. Ignore the "(+/-)" in the prompt, this has no current meaning.

Internet address? [your_ip_addr]

Give the corresponding IP address, as described in 2.1 above.

Slave server? [n]

This only appears when the program code is "3" (license server).

Always give "n", or just press Enter.

Add another block ('r' to repeat last)? [n]

This completes the record. Give 'y' if you need to add another record. You can enter 'r' to repeat the present record, if you entered something wrong. Enter 'n' or just press Enter if you're done. If you give 'y' or 'r', the sequence of prompts begins again.

When exiting, there may be additional prompts, like



Code 12 user limitation? [0]

These set the number of program instances that the license server will accept simultaneously. Enter 0 or just press Enter for no limit.

A log of the transactions will be written in the current directory in a file named "log.hostname", where "hostname" is the host name of the present machine. This should be kept for documentation purposes.

2.4 The LICENSE file

The LICENSE file should appear in the current directory. This will be given to the end user for installation.

The LICENSE file is a binary file of size 1536 bytes. It can be corrupted by ascii-mode ftp transmission, so be sure to use binary mode. If a LICENSE file has a size different than 1536 bytes, it is corrupt and must be replaced.

It is not possible to "decrypt" a LICENSE file to retrieve the original entries.

A license file can be tested with the lfinfo program, which, like the validate program, resides in xictools/src/secure. It must be built in this directory by giving

```
make lfinfo
```

Like validate, the executable can be moved to a new location if desired.

To test a LICENSE file, start the lfinfo program - it takes no arguments.

The first prompt is

Enter path to LICENSE file:

Enter the path to the LICENSE file to test, or just "LICENSE" if the file is in the current directory.

The remaining prompts are analogous to the prompts in validate.

Here are two example sessions:

```
Enter path to LICENSE file: ./LICENSE
Enter program code [0]: 3
Enter host [none specified]: kipling
Enter IP address [0.0.0.0]: 192.168.1.16
License expires: Never
User limit: None
Enter 'q' or ^C anytime to quit.
Enter program code [3]: ^C
Enter path to LICENSE file: ./LICENSE
Enter program code [0]: 3
Enter host [none specified]: mickeymouse
Enter IP address [0.0.0.0]: 192.168.1.16
Authorization check failed:
Host mickeymouse is not licensed to run this binary.
Enter 'q' or ^C anytime to quit.
Enter program code [3]: ^C
```

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.

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