

TIBCO SPOTFIRE S+[®] 8.1 Installation and Administration Guide for Windows[®] and UNIX[®]/Linux[®]

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TIBCO Software Inc.

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Support**

For technical support, please visit <http://spotfire.tibco.com/support> and register for a support account.

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TIBCO SPOTFIRE S+ BOOKS

The TIBCO Spotfire S+® documentation includes books to address your focus and knowledge level. Review the following table to help you choose the Spotfire S+ book that meets your needs. These books are available in PDF format in the following locations:

- In your Spotfire S+ installation directory (**\$HOME/help** on Windows, **\$HOME/doc** on UNIX/Linux).
- In the Spotfire S+ Workbench, from the **Help ► Spotfire S+ Manuals** menu item.
- In Microsoft® Windows®, in the Spotfire S+ GUI, from the **Help ► Online Manuals** menu item.

Spotfire S+ documentation.

Information you need if you...	See the...
Are new to the S language and the Spotfire S+ GUI, and you want an introduction to importing data, producing simple graphs, applying statistical models, and viewing data in Microsoft Excel®.	<i>Getting Started Guide</i>
Are a new Spotfire S+ user and need how to use Spotfire S+, primarily through the GUI.	<i>User's Guide</i>
Are familiar with the S language and Spotfire S+, and you want to use the Spotfire S+ plug-in, or customization, of the Eclipse Integrated Development Environment (IDE).	<i>Spotfire S+ Workbench User's Guide</i>
Have used the S language and Spotfire S+, and you want to know how to write, debug, and program functions from the Commands window.	<i>Programmer's Guide</i>
Are familiar with the S language and Spotfire S+, and you want to extend its functionality in your own application or within Spotfire S+.	<i>Application Developer's Guide</i>

Spotfire S+ documentation. (Continued)

Information you need if you...	See the...
Are familiar with the S language and Spotfire S+, and you are looking for information about creating or editing graphics, either from a Commands window or the Windows GUI, or using Spotfire S+ supported graphics devices.	<i>Guide to Graphics</i>
Are familiar with the S language and Spotfire S+, and you want to use the Big Data library to import and manipulate very large data sets.	<i>Big Data User's Guide</i>
Want to download or create Spotfire S+ packages for submission to the Comprehensive S-PLUS Archive Network (CSAN) site, and need to know the steps.	<i>Guide to Packages</i>
Are looking for categorized information about individual Spotfire S+ functions.	<i>Function Guide</i>
If you are familiar with the S language and Spotfire S+, and you need a reference for the range of statistical modelling and analysis techniques in Spotfire S+. Volume 1 includes information on specifying models in Spotfire S+, on probability, on estimation and inference, on regression and smoothing, and on analysis of variance.	<i>Guide to Statistics, Vol. 1</i>
If you are familiar with the S language and Spotfire S+, and you need a reference for the range of statistical modelling and analysis techniques in Spotfire S+. Volume 2 includes information on multivariate techniques, time series analysis, survival analysis, resampling techniques, and mathematical computing in Spotfire S+.	<i>Guide to Statistics, Vol. 2</i>

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INTRODUCTION

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OVERVIEW

This manual contains information on installing and administering all editions of TIBCO Spotfire S+[®] 8.1 for Windows[®], UNIX[®], and Linux[®].

This manual is written mainly for an audience of Windows, UNIX, and Linux systems administrators. In the typical scenario, a Windows or UNIX systems administrator uses this guide to install Spotfire S+ on a network so that multiple users can access Spotfire S+ simultaneously.

SUPPORTED PLATFORMS AND SYSTEM REQUIREMENTS

Spotfire S+ for Windows

TIBCO Spotfire S+ 8 for Windows is supported on the following platforms:

Table 1.1: *Supported platforms for Windows® systems.*

Operating System	Disk Space
Windows Vista®	500 MB
Windows XP Professional Edition®	500 MB
Windows XP Media Center Edition®	500 MB
Windows Server 2003® Enterprise and Standard	500 MB
Windows Server 2008® Enterprise and Standard	500 MB

To install Spotfire S+, the minimum recommended system configuration is a Pentium III processor with 512MB of RAM.

There are no 64-bit versions available on Windows with this release.

Spotfire S+ for UNIX/Linux

The 32-bit and 64-bit versions of Spotfire S+[®] 8.1 for UNIX[®]/Linux[®] are supported on the following platforms and operating systems. The minimum recommended disk space for installing and running Spotfire S+ is also included:

Table 1.2: *Supported platforms for UNIX/Linux systems.*

Operating System	Disk Space
Solaris [®] 2.8, 2.9, 2.10 (SPARC 32-bit)	475 MB
Red Hat Enterprise Linux WS 4 and 5 (x86, x64)	475 MB (32 bit) 500 MB (64 bit)
SUSE Linux Enterprise 10 Service Pack 2 (x86, x64)	475 MB (32 bit) 500 MB (64 bit)

Note that Spotfire S+ no longer supports HP-UX or AIX.

Previous versions of the listed operating systems might function with Spotfire S+, but they are not supported.

You will need a minimum of 60 MB RAM to run Spotfire S+ from the command line, and the Java GUI requires an additional 100 MB to run. Note that these values are minima; if you work with moderate-sized data sets, these numbers may be insufficient for your needs.

Note

As of version 8.1, the Spotfire S+ Java-based GUI is deprecated. If you want to use a GUI with Spotfire S+, use the Spotfire S+ Workbench.

YOUR SPOTFIRE S+ LICENSE

In previous versions of S-PLUS, you were required to license your product using the FLEXnet license manager. The license manager is no longer used in Spotfire S+, as of version 8.1.

INSTALLING TIBCO SPOTFIRE S+ 8 FOR WINDOWS

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INSTALLATION STEPS

1. Insert the TIBCO Spotfire S+[®] 8 for Windows[®] CD into the CD-ROM drive on your machine. If your machine has CD-ROM AutoPlay enabled, the installation program starts automatically. Otherwise, open Microsoft Windows Explorer and run the **setup.exe** program from the CD-ROM drive. The **Master Setup** screen appears.
2. In the **Master Setup**, click the **Install/Configure Spotfire S+ on your system.** button. You can accept defaults in the screens that appear, or you can change the options such as the installation directory. The default installs the Spotfire S+ program files in the following default folder:

`C:\Program Files\TIBCO\splus81`

3. After the Spotfire S+ installation has completed, return to the **Master Setup**. If you have purchased Spotfire S+ modules, you are ready to install them.

Available modules include:

- Spotfire FinMetrics for S+
- Spotfire NuOpt for S+
- Spotfire SpatialStats for S+.

Note

The modules Wavelets, SeqTrial, and EnvironmentalStats are now included as packages with the core Spotfire S+ product and require no separate installation. For more information about new packages, see the Release Notes.

Click **Install Spotfire S+ Modules**. Select a module from the menu and accept all defaults in the following screens. By default, the module is stored in the corresponding **SHOME/module/[module name]** folder. For example, Spotfire FinMetrics for S+ is installed by default at:

`C:\Program Files\TIBCO\splus81\module\FinMetrics`

This should successfully complete your Spotfire S+ installation.

PUSH INSTALLATION

If you are a network administrator and want to automate the process of installing Spotfire S+ on a number of desktop machines in your network, this is done easily by using the **automate_sample.ini** script, located at the top level of your CD. This script mimics the setup parameters, but allows you to customize the setup, such as setting the default installation type (**Typical**, **Compact**, or **Custom**) or default installation directory.

Open **automate_sample.ini** by double-clicking it, and you see the keys, along with their descriptions. These descriptions guide you in understanding the purpose of, and available options for, each key. If a key value is not specified or is missing, a dialog for that value appears during setup.

Instructions are provided at the top of the script for running it, including the locations of build and log files.

Note on setting the CustomComponentListFile key
Use this key to set the specific features to install (for example, PDF documentation and desktop icons), and those you do not want to install (for example, example files). Copy featurelist.txt (located in the directory at the top level of your CD) to another directory and modify it as needed. Double-click featurelist.txt for more information on how to use it.

INSTALLING TIBCO SPOTFIRE S+ 8 FOR UNIX/LINUX

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BASIC INSTALLATION

The TIBCO Spotfire S+[®] 8.1 for UNIX[®]/Linux[®] installation, configuration, and verification process consists of six steps:

1. Unpacking and copying the files from the distribution CD to an appropriate place on your system.
2. Running the CONFIGURE script (to select various configuration options).
3. Running the INSTALL script.
4. Running Spotfire S+.

The following section provides detailed information for each step.

Step 1: Unpacking and Copying the Files from the Distribution CD

If you have a previous edition of Spotfire S+ already installed on your system, do not install the new edition in the same directory tree. The existing installation should be left intact until after the new installation is up and running, and until you are satisfied that it is no longer required for any reason. To unpack and copy the files:

1. Create a new directory for the Spotfire S+ tree, and `cd` to that directory.

Be sure the directory you create is on a file system with adequate disk space. This directory can be in your home directory if you are going to be the only user, or in a globally visible location if the installation is to be shared by multiple users. In the latter case, we recommend you create a special user account called `splus`, and use that account's home directory as the installation directory. If you create such an account, log in as `splus` to perform most of the installation; you will want to be superuser (or root) to actually install the Spotfire S+ script.

2. Set permissions so everyone on your system can use Spotfire S+:

```
umask 022
```

3. As either a regular user (yourself or `splus`) or as root, unpack the tar file from the CD-ROM into the new directory using `tar` as follows:

```
cat /[mount_point]/SPLUS.TZ | uncompress | tar xvf -
```

where [mount_point] is the absolute path to the CD-ROM drive.

Depending on your platform, files on the CD may be listed in UPPERCASE, lowercase, or UPPERCASE. After mounting the CD-ROM drive, use the `ls` command to see the format shown on your system. Use the same format in the `cat` command as shown on your system.

If you are installing as superuser (or root), the files might be restored with the user and group identifiers that existed when the files were tarred. On some platforms (including Solaris), the `-o` flag to `tar` assigns these identifiers to the user extracting the files.

If your system has the `zcat` command, you can use it to shorten your extraction command (`zcat` combines the `cat` and `uncompress` commands):

```
zcat /[mount_point]/SPLUS.TZ | tar xvf -
```

Step 2: Running the CONFIGURE Script

The purpose of running the `CONFIGURE` script is to select various options for creating the script for starting Spotfire S+. We recommend that you ask your system administrator to create a new user called `splus`, and to run `CONFIGURE` as `splus`. The UNIX group of that user should include those users who are likely to want to run Spotfire S+.

Within the new Spotfire S+ home directory, run the `CONFIGURE` script:

```
./CONFIGURE
```

The license agreement is displayed for your review. When you have finished reading this agreement, press `q` (quit), wait a moment for the text to appear, and when it is displayed, you have an option to accept (1) or to not accept (2) the agreement.

The `CONFIGURE` script displays the following:

Configuration Options:

- 1: About This Menu
- 2: Graphics Hard Copy Printing
- 3: Help File Printing
- 4: Destinations and Name of Splus Script

```
5:    [There is no option 5]
6:    Installation of Splus man page
0:    Exit this Menu
```

Note

Option 5 still appears as a placeholder for existing script configuration backwards compatibility.
--

Your selections during this step depend on whether you have an existing version of this product installed or whether this will be a new installation.

If you have an existing installation:

This section applies if you have a previous edition of S-PLUS installed on your system, and you would like to run Spotfire S+ 8.1 alongside your currently installed version. If you are upgrading from a previous edition, skip to the section on new installations below.

Part of the configuration and installation process is to create a startup script for Spotfire S+. The startup script for the new version of Spotfire S+ should be given a name that is separate and distinct from the name of the startup script for any existing installations. For example, if you have S-PLUS 8.0.x or earlier installed with a startup script named `Splus`, and you are currently installing Spotfire S+ 8.1, you have the following choices:

1. Rename the existing script as `Splus8.0.x` and name the new script `Splus`
2. Leave the name of the existing script as `Splus` and name the new script `Splus8.1`.

For most upgrades, option 4, Destinations and Name of `Splus` Script, is the only option that you must address. In most cases, you should leave the default destination (**`/usr/local/bin`**) alone and select a new name for the script as discussed above. After that, select option 0 to exit the script.

If this is a new Spotfire S+ installation

For most new installations, you can accept all defaults. In that case, select each of the options to confirm the information, and then select **Exit this Menu**. You must run `CONFIGURE`, even if you accept all of the defaults.

The default is to name the startup script `Splus` and to install it in `/usr/local/bin`. To give the startup script a different name, or to install it in a different location, choose option 4, `Destinations and Name of Splus Script`.

Step 3: Running the INSTALL Script

After running `CONFIGURE`, run `INSTALL`, which copies the information you entered in the `CONFIGURE` step to the appropriate directory.

Run `INSTALL` as root (particularly if you accept the default location for the startup script of `/usr/local/bin`):

```
./INSTALL
```

from within your installation directory.

Step 4: Running Spotfire S+

Before starting Spotfire S+, you must:

1. Set your `DISPLAY` environment variable to your local machine.

Check if your `DISPLAY` variable is set already by looking at the output from

```
echo $DISPLAY
```

to be sure. To set your display from a C-like shell (`csh`, `tcsh`, etc.), use the `setenv` command:

```
setenv DISPLAY <display_name>
```

where `<display_name>` is the name of your local machine. From the Bourne- and Korn-like shells (including `sh`, `ksh`, `bash`, etc.), use the following commands:

```
DISPLAY=<display_name>;export DISPLAY
```

To use the Java-related features of Spotfire S+, you must be able to connect to your local X window server. Therefore, you must have the environmental variable `DISPLAY` set, and the X window server on your local machine must allow the Spotfire S+ server to create windows on your machine; see the UNIX

programs `xauth` or `xhost`. Typically, if you can run `xclock` on your machine, then Spotfire S+ should also be able to access the X server.

You are now ready to start Spotfire S+. You can launch Spotfire S+ in one of the following modes listed below. (This list includes each mode and the corresponding UNIX command-line expression for launching it.) In all of the commands below, `Splus` refers to the script you use to launch Spotfire S+ 8 on your system.

To run without Java:

```
Splus
```

To run from the command line supporting Java calls, Java graphics, and the Java help interface:

```
Splus -j
```

To run from the command line with the graphical user interface:

```
Splus -g or Splus -g &
```

Note
As of version 8.1, the Spotfire S+ Java-based GUI is deprecated. If you want to use a GUI with Spotfire S+, use the Spotfire S+ Workbench.

The second command (using the ampersand `&`) puts the GUI process into the background, freeing your `xterm` for other uses.

To attach the Spotfire S+ Big Data Library before running Spotfire S+:

```
Splus -bigdata
```

To run the Spotfire S+ Workbench:

```
Splus -w | -workbench
```

You can add the `-e` flag to either of the first two modes to enable command-line editing. The **Commands** window in the graphical user interface always allows basic editing.

Spotfire S+ includes two additional flags, `-jit` and `-helpoff`:

The `-jit` flag works with the `-g`, `-j`, and `-userapp` flags and allows you to turn on the Java just-in-time compiler. This makes the graphical user interface and help system run faster

but introduces instabilities that often lead to crashes. In particular, the just-in-time compiler often crashes while repainting graphical user interface elements such as the JavaHelp window and the Data window.

The `-helpoff` flag is useful only with the `-g` flag. It turns off the automatic invisible startup of the help system. The invisible startup improves initial responsiveness of the help system but adds a significant memory footprint to the current session. If you wish to optimize your available memory, this flag might prove useful.

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libsvm

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**Mersenne
Twister 1/26/
2002**

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A C-program for MT19937, with initialization improved 2002/1/26.

Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)` or `init_by_array(init_key, key_length)`.

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XML 0.92-2

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