

INSTALLING A MODULE WITH S-PLUS FOR UNIX/LINUX

To install a module with S-PLUS for UNIX/Linux, there are three basic steps:

1. From your S-PLUS installation directory, extract the module files from the S-PLUS CD-ROM.
2. If necessary, obtain a license key for the module from Insightful Corporation. You need to obtain a license key if this is a new installation, if you have changed servers, if you have modified the number of licensed users, or if the IP address of your server has changed.
3. Run the **MODINSTALL** utility to complete the installation.

Before you begin, first determine the location of the S-PLUS installation directory. The S-PLUS installation directory is returned by the following command:

```
Sp1us SHOME
```

Here, `Sp1us` is the script used to invoke S-PLUS on your system. If you run S-PLUS by typing a different command (for example, `Sp1us6`), use that command with **SHOME** to obtain the location of your S-PLUS installation directory.

To ensure you run the installation from the correct directory, use the command below to move to the S-PLUS installation directory. Note that the command uses back-ticks:

```
cd `Sp1us SHOME`
```

Step 1: Extract the Files from the CD-ROM

To extract the module from the S-PLUS CD-ROM, execute the command

```
cat [/i>mount point]/[platform]/[module]/[module].TZ |  
uncompress | tar xvf -
```

where:

- *[mount point]* is the path to your CD-ROM drive (for example, **/cdrom**),
- *[platform]* is the operating system name (for example, **SOLARIS**), and

- *[module]* is one of **FINMETRICS**, **GARCH**, **WAVELETS**, or **SPATIAL**.

For example, if your *[mount point]* and *[platform]* are as in the examples above, use the following command to extract the S+GARCH module files:

```
cat /cdrom/SOLARIS/GARCH/GARCH.TZ | uncompress | tar xvf -
```

The NUOPT for S-PLUS and S+SEQTRIAL modules are distributed on their own CDs, but have the same file structure as the CD containing the other four modules. Thus, if you are installing NUOPT, insert your NUOPT CD and issue the following command:

```
cat [/[mount point]/[platform]/NUOPT/NUOPT.TZ | uncompress | tar xvf -
```

Step 2: Obtain a License Key for the Module

Your S-PLUS installation and S-PLUS modules all run under a single license manager. Each module requires a license key that must be installed on the system where your S-PLUS license manager resides. You need to obtain a license key for the module if any of the following are true:

- This is a new installation.
- You have changed servers.
- You have modified the number of licensed users.
- The IP address of your server has changed.

To determine the system where your S-PLUS license manager resides, type the following command at a shell prompt on any machine from which you can run S-PLUS:

```
Splus LICENSE server host
```

The machine name returned by this command is the license server host (i.e., the machine on which the license manager runs). You must be logged on to this host to obtain the correct HOSTINFO code and to install the license key.

Log on to the license server host and run the following command to obtain the server's HOSTINFO code:

```
Splus LICENSE hostinfo
```

The output will look something like the text below.

The server code that follows needs to be provided to Insightful Corporation so that we may produce a license key to enable usage of this S-PLUS product. The HOSTINFO command should be run on the system that will be running the license management server daemon -- the system on which the command

```
Splus LICENSE server start
```

will be run.

Code for server apple is: 5465 5855 3837 73.

E-mail the server code, the server name, the module name, your module's serial number, and your platform type to Insightful Corporation:

- If you are a North, Central, or South American customer, e-mail the license key information to the Seattle office of Insightful Corporation, **keys@insightful.com**.
- For all other locations, e-mail the license key information to the European Headquarters of Insightful Corporation in Switzerland, **info@ch.insightful.com**.

Allow one day for the return of your license key, which you will receive by e-mail.

Note

Your module's serial number, which you can find in the letter from Insightful Corporation that you received with the initial module shipment, is different from your S-PLUS serial number.

Step 3: Run MODINSTALL

The **MODINSTALL** script installs a license key for S-PLUS modules. You must run the **MODINSTALL** script on the system where your license manager resides (i.e., the system for which you obtained the license key). For example, to complete the S+GARCH installation on the server **apple**, log in to **apple** as root and type the following in the S-PLUS **cmd** directory:

```
./Splus MODINSTALL garch
```

Enter your license key when prompted. You will need to stop and restart the license manager so it recognizes your new license keys.

INSTALLING A MODULE WITH S-PLUS FOR WINDOWS

Modules that run with standalone versions of S-PLUS for Windows (S-PLUS Professional, Trial, Academic Site, Student, and Standard Editions) are distributed on their own CDs. The process for installing a module with these versions of S-PLUS is straightforward:

1. Note the serial number on your module's CD-ROM jewel case. This number is different from your S-PLUS serial number and is required to proceed with the installation program.
2. Insert the module CD in your machine's disk drive.
3. 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 floppy drive.
4. Follow the on-screen instructions. When prompted, enter the module's serial number and destination folder.

The destination folder for your module should be your S-PLUS home directory (i.e., **C:\Program Files\Insightful\Splus6**). The installation program automatically creates a **module** folder under your home directory containing appropriate subfolders for the modules you install. It is not necessary to create these folders yourself.

INSTALLING A MODULE WITH S-PLUS FOR WINDOWS NETWORKS

The network versions of the modules S+FINMETRICS, S+GARCH, S+SPATIALSTATS, and S+WAVELETS are all located on the S-PLUS for Windows Networks CD. The network versions of S+SEQTRIAL, ENVIRONMENTALSTATS for S-PLUS, and NUOPT for S-PLUS are distributed on their own CDs.

For additional installation instructions pertaining to the network edition of S-PLUS, see the *S-PLUS 6 Network Installation Guide*. An electronic copy of this manual can be found in the PDF file **network\winnet.pdf** on your S-PLUS 6.1 CD.

Installing S+FINMETRICS, S+GARCH, S+SPATIALSTATS, or S+WAVELETS

The process for installing a module that is included on your S-PLUS for Windows Networks CD is straightforward. This is because the program files for all four modules are installed by default; you need only to request license keys for the modules you have licenses for.

1. Note the serial number of your module, which is written in the letter included with this shipment. This number is different from your S-PLUS serial number and is required to proceed with the installation program.
2. Run the License Key Setup Wizard to obtain the server code for your license server. Your license server is the machine where the Elan License Manager is installed. This is described on pages 56-57 of the *S-PLUS 6 Network Installation Guide*.
3. Request a license key from Insightful Corporation. To do this, e-mail the server code, the server name, the module name, your module's serial number, and your platform type to Insightful Corporation:
 - If you are a North, Central, or South American customer, e-mail the license key information to the Seattle office of Insightful Corporation, **keys@insightful.com**.
 - For all other locations, e-mail the license key information to the European Headquarters of Insightful Corporation in Switzerland, **info@ch.insightful.com**.

Allow one day for the return of your license key, which you will receive by e-mail. This process is documented on page 58 of the *S-PLUS 6 Network Installation Guide*.

4. Install the license key. This is described on pages 59-60 of the *S-PLUS 6 Network Installation Guide*.
5. Stop and restart the license manager so the new license keys are recognized. This is described on pages 61-65 of the *S-PLUS 6 Network Installation Guide*.

Note

In S-PLUS 6.0, the program files for the modules on the S-PLUS for Windows Networks CD are not automatically installed, and you must install them manually before requesting license keys. See Chapter 5 in the *S-PLUS 6 Network Installation Guide*. If you have S-PLUS 6.1, you can safely disregard this chapter when installing S+FINMETRICS, S+GARCH, S+SPATIALSTATS, or S+WAVELETS.

Installing All Other Modules

All modules must be installed on your S-PLUS program file server, including S+SEQTRIAL, ENVIRONMENTALSTATS for S-PLUS, and NUOPT for S-PLUS. The process for installing these modules is identical to the one described above, except you must install the modules' program files manually:

1. Note the serial number on your module's CD-ROM jewel case. This number is different from your S-PLUS serial number and is required to proceed with the installation program.
2. Insert the module CD in your server's disk drive. 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.
3. Follow the on-screen instructions. When prompted, enter the module's serial number. This is documented in Chapter 5 of the *S-PLUS 6 Network Installation Guide*.
4. Follow Steps 2 through 5 from the previous section above to finish the installation.