

IBM SPSS Modeler Server 15 for UNIX Installation Instructions

IBM® SPSS® Modeler Server can be installed and configured to run in distributed analysis mode together with one or more client installations. This provides superior performance on large datasets, since memory-intensive operations can be run on the server without downloading data to the client computer. At least one IBM® SPSS® Modeler Client installation must be present to run an analysis.

System Requirements

The minimum hardware and software requirements for IBM® SPSS® Modeler Server are as follows:

- **Operating system.** IBM AIX® 6.1 or 7.1 for 64-bit POWER systems; HP-UX 11i V3 for 64-bit Itanium systems; Oracle Solaris™ 9.x or 10 for 64-bit SPARC systems; Red Hat Enterprise Linux 5.x for 32-bit x86 systems; Red Hat Enterprise Linux 5.x or 6.x for 64-bit x64 or IBM System z systems; Red Hat Enterprise Linux Advanced Platform 5.x for 32-bit x86 systems; Red Hat Enterprise Linux Advanced Platform 5.x or 6.x for 64-bit x64 or IBM System z systems; SuSE Linux Enterprise Server 10 or 11 for 64-bit x64 or IBM System z systems
- **Hardware.** PowerPC processor, 233MHz or faster and IBM System p for IBM AIX; Itanium processor for HP-UX; UltraSPARC II (or better) for Solaris; Pentium or Pentium-class processor or higher for 32-bit Linux; x64 (AMD 64 and EM64T) processor family or IBM s390x System z for 64-bit Linux
- **Minimum free disk space.** 2 gigabytes (GB) recommended.
- **RAM.** 4 GB is recommended.
- **Virtual environment.** The following virtual environments support IBM® SPSS® Modeler Server.
 - IBM PowerVM Hypervisor for IBM AIX
 - IBM PR/SM or z/VM for Linux for IBM System z
 - VMWare ESX Server 4.1
 - VMWare vSphere 4.0
- **Cluster environment.** The following cluster environments support SPSS Modeler Server.
 - IBM HACMP/RSCT for IBM AIX
 - IBM WebSphere App Server 64-bit
 - Microsoft Cluster Service for Windows
 - Oracle Solaris Cluster
 - Oracle WebLogic App Server 64-bit
 - Red Hat Cluster Suite for Red Hat Enterprise Linux

- If using physical installation media, a DVD-ROM drive.
- A network adaptor running the TCP/IP network protocol.

Client software. The client software must be at the same release level as the IBM SPSS Modeler Server software.

Note: We recommend that you install a copy of the client software on your Windows desktop computer. You may need it to test the IBM SPSS Modeler Server connection and to test the data sources that you configure. It might also be useful for diagnosing other problems. If you downloaded IBM SPSS Modeler Server, you can also download the client. If you have physical installation media, your product package contains a client installation disk. Please do not install the client on the same computer as IBM SPSS Modeler Server.

Additional Requirements

You must ensure that kernel limits on the system are sufficient for the operation of IBM® SPSS® Modeler Server. The data, memory, and file ulimits are particularly important and should be set to unlimited within the SPSS Modeler Server environment. To do this:

- ▶ Add the following commands to *modelersrv.sh*:

```
ulimit -d unlimited
```

```
ulimit -m unlimited
```

```
ulimit -f unlimited
```

- ▶ Restart SPSS Modeler Server.

You also need the *gzip* file compression utility and *GNU cpio* installed and on the PATH in order for the installer to be able to uncompress the installation files.

Solaris.

In addition to aforementioned system requirements, installing on Solaris also requires the following version specific patches. Patches can be downloaded from <http://sunsolve.sun.com/pub-cgi/show.pl?target=patchpage>.

- *Solaris 2.9 Patch IDs* : 111711-16, 111712-16, and 111722-05 (C++)
- *Solaris 2.10 Patch IDs*: 119963 (C++)

You must also have the library */usr/lib/iconv/646%UTF-8* installed on your system. If this is not currently installed, please install the *SUNWiniu8* or *SUNWiniu8x* packages, which will install this library as part of the Indic iconv modules for UTF-8.

Red Hat Enterprise Linux 5.x (32-bit x86).

The following additional packages are needed to run properly. Search and apply using your configured update manager. If you are unable to find the versions specified, contact your system administrator.

- The *pam* package (version *pam-0.99.6.2-6.el5_5.2*)

- The *glibc* package (version *glibc-2.5-58*)
- The *libstdc++* package (version *libstdc++-4.1.2-50.el5*)
- The *libgcc* package (version *libgcc-4.1.2-50.el5*)
- The *audit-libs* package (version *audit-libs-1.7.18-2.el5*)

Red Hat Enterprise Linux 5.x (64-bit x64).

The following additional packages are needed to run properly. Search and apply using your configured update manager. If you are unable to find the versions specified, contact your system administrator.

- The *zlib* package (version *zlib-1.2.3-3*)
- The *pam* package (version *pam-0.99.6.2-6.el5_5.2*)
- The *glibc* package (version *glibc-2.5-58*)
- The *libstdc++* package (version *libstdc++-4.1.2-50.el5*)
- The *libgcc* package (version *libgcc-4.1.2-50.el5*)
- The *audit-libs* package (version *audit-libs-1.7.18-2.el5*)

Red Hat Enterprise Linux 6.x (32-bit x86).

The following additional packages are needed to run properly. Search and apply using your configured update manager. If you are unable to find the versions specified, contact your system administrator.

- The *pam* package (version *pam-1.1.1-4.el6.i686*)
- The *glibc* package (version *glibc-2.12-1.7.el6.i686*)
- The *libstdc++* package (version *libstdc++-4.4.4-13.el6.i686*)
- The *libgcc* package (version *libgcc-4.4.4-13.el6.i686*)
- The *audit-libs* package (version *audit-libs-2.0.4-1.el6.i686*)
- The *nss-softokn-freebl* package (version *nss-softokn-freebl-3.12.7-1.1.el6.i686*)

Red Hat Enterprise Linux 6.x (64-bit x64).

The following additional packages are needed to run properly. Search and apply using your configured update manager. If you are unable to find the versions specified, contact your system administrator.

- The *zlib* package (version *zlib-1.2.3-25.el6.x86_64*)
- The *pam* package (version *pam-1.1.1-4.el6.x86_64*)
- The *glibc* package (version *glibc-2.12-1.7.el6.x86_64*)
- The *libstdc++* package (version *libstdc++-4.4.4-13.el6.x86_64*)
- The *libgcc* package (version *libgcc-4.4.4-13.el6.x86_64*)
- The *audit-libs* package (version *audit-libs-2.0.4-1.el6.x86_64*)
- The *nss-softokn-freebl* package (version *nss-softokn-freebl-3.12.7-1.1.el6.x86_64*)

SuSE Linux 10 (64-bit x64).

The following additional packages are needed to run properly. Search and apply using your configured update manager. If you are unable to find the versions specified, contact your system administrator.

- The *zlib* package (version *zlib-1.2.3-15.2*)
- The *pam* package (version *pam-0.99.6.3-28.18.39*)
- The *glibc* package (version *glibc-2.4-31.74.1*)
- The *libstdc++* package (version *libstdc++-4.1.2_20070115-0.29.6*)
- The *libgcc* package (version *libgcc-4.1.2_20070115-0.29.6*)
- The *audit-libs* package (version *audit-libs-1.2.9-6.19*)

SuSE Linux 11 (64-bit x64).

The following additional packages are needed to run properly. Search and apply using your configured update manager. If you are unable to find the versions specified, contact your system administrator.

- The *zlib* package (version *zlib-1.2.3-106.34*)
- The *pam* package (version *pam-1.0.4-0.5.12*)
- The *glibc* package (version *glibc-2.11.1-0.17.4*)
- The *libstdc++* package (version *libstdc++43-4.3.4_20091019-0.7.35*)
- The *libgcc* package (version *libgcc43-4.3.4_20091019-0.7.35*)
- The *audit-libs* package (version *audit-libs-1.7.7-5.16*)

zLinux 64-bit (IBM System z).

The following additional packages are needed to run properly. Search and apply using your configured update manager. If you are unable to find at least the minimum versions specified, contact your system administrator.

- The *libstdc++* package (version: *libstdc++-5.0.7-X.Y.s390x* where *X.Y* is *0.0* or later).
- The *libgcc* package (version: *libgcc-4.2.0-X.Y.s390x* where *X.Y* is *0.0* or later).

AIX 6.1.

In addition to aforementioned system requirements, installing on AIX 6.1 also requires the following:

- *bos.net.tcp.client* (version: *6.1.5.1*)
- *bos.rte.bind_cmds* (version: *6.1.5.0*)
- *bos.rte.libc* (version: *6.1.5.1*)
- *bos.rte.libpthreads* (version: *6.1.5.0*)
- *bos.rte.security* (version: *6.1.5.0*)
- *vacpp.cmp.rte* (version: *11.1.0.3*)
- *bos.rte.iconv* (version: *6.1.5.0*)

- *bos.adt.lib* (version: 6.1.2.0)
- *bos.rte.streams* (version: 6.1.5.0)
- *bos.rte.mslib* (version: 6.1.5.0)
- *bos.rte.odm* (version: 6.1.5.0)

AIX 7.1.

In addition to aforementioned system requirements, installing on AIX 7.1 also requires the following:

- *bos.net.tcp.client* (version: 7.1.0.1)
- *bos.rte.bind_cmds* (version: 7.1.0.0)
- *bos.rte.libc* (version: 7.1.0.1)
- *bos.rte.libpthreads* (version: 7.1.0.0)
- *bos.rte.security* (version: 7.1.0.1)
- *xlC.rte* (version: 11.1.0.1)
- *bos.rte.iconv* (version: 7.1.0.0)
- *bos.adt.lib* (version: 7.1.0.0)
- *bos.rte.streams* (version: 7.1.0.0)
- *bos.rte.mslib* (version: 7.1.0.0)
- *bos.rte.odm* (version: 7.1.0.0)

HP-UX.

In addition to aforementioned system requirements, installing on HP-UX also requires that C++ Runtime libraries be installed. You can download them as patch PHSS_26946. To access the patch, go to <http://www4.itrc.hp.com/service/patch/mainPage.do>. Registration is required but is free of charge.

Upgrading

If you do not currently have IBM® SPSS® Modeler Server installed on the target computer, skip to “Installing” on p. 6. If you do have an installation on the target computer, decide whether to:

- Replace the current version. You must replace the old version if the new version is a minor release compared to the old version. You can check if the release is minor by looking at the first two parts of the version number. If these are the same as the installed version, the new version is a minor version compared to the installed version. For example, if the new version is 13.1 and the old version is 13.0, the new version is a minor release and you must replace the old version.

or

- Install the new version in addition to your current version. You can install the new version in addition to the old version if the new version is a major release compared to the old version. For example, if the new version is 14.0 and the old version is 13.1, you can install the new version in addition to the current version.

To Replace the Current Version

- ▶ Back up your existing configuration file (*options.cfg*) to another location. The configuration file is located in the *config* directory. Note that configuration settings specified in this file can also be modified using IBM® SPSS® Collaboration and Deployment Services Deployment Manager. For more information, see the topic “Installing the Administration Console for IBM SPSS Collaboration and Deployment Services Deployment Manager” on p. 9.
- ▶ Remove the old version. Follow the steps in “Uninstalling” on p. 13.
- ▶ Install the new version. Follow the steps in “Installing” on p. 6.
- ▶ Compare your old configuration file with the new configuration file and transfer any options settings that you want to preserve in the new file. See the *IBM SPSS Modeler Server and Performance Guide* for information about the options in the configuration file. Do not replace the new file with the old one.

To Add the New Version

- ▶ Follow the steps in “Installing” on p. 6, with the following comments.
 - **Destination directory.** Install the new version in the different location from the old version.
- The port number and temporary file location are specified in the administration console. Refer to the *IBM SPSS Modeler Server and Performance Guide* for more information. You can also make these changes manually in the configuration file (*options.cfg*) located in the *config* directory.
- Whenever you install a new version, be sure to distribute IBM SPSS Modeler Server product’s host name and port number to the end users.

Installing

You can install SPSS Modeler Server as *root* or as a non-root user. If your site restricts the use of the *root* password, follow the instructions under the next heading to set up a non-root user to install, configure, and start and stop the server, otherwise continue from “Installing: all users”.

Installing: non-root user

- ▶ Create a local user account on the machine that will be used to install, configure, and start and stop SPSS Modeler Server.
- ▶ Using this local user account, install SPSS Modeler Server following the instructions under “Installing: all users”.

Installing: all users

- ▶ **If using physical installation media, prepare the DVD drive.** Insert the product DVD into the DVD drive and ensure that you can access the drive. On Solaris, the volume manager (the **vold** daemon) must be running.
- ▶ **If using downloaded installation media, run the installation file.** The downloaded media contains a *.bin* file; run this file.
- ▶ **Check hard drive space.** In addition to the permanent hard drive space specified in “System Requirements” on p. 1 , you need temporary disk space for the installer files. The installer files are extracted to your system’s temporary folder. If there is not enough space in the temporary folder, the installer files are extracted to your home folder. If neither location has enough space, the installer cannot continue. In this case, you can temporarily set the **IATMPDIR** environment variable to a location with adequate space. This location should have at least 1 gigabyte (GB) of free space.
- ▶ **Check the destination directory.** By default, IBM SPSS Modeler Server is installed to */opt/IBM/SPSS/ModelerServer<version>*. If desired, you can change this path in the graphical installation wizard or the command line installation. If you are going to run the silent installer, you can set the value for **USER_INSTALL_DIR** in *installer.properties*. Regardless, you need read and write permissions to the installation directory, so log on with an account that has sufficient permissions. *Note:* If you are upgrading by adding a new version of the product, install the new version in a separate directory.
- ▶ **If using physical installation media, copy the installer file.** Copy the installer file from the DVD to a directory on the server machine. The installer files are located in *UNIX/InstallationFiles* directory at the root of the DVD.
Note: The name of the file depends on the specific release and platform.
- ▶ **Change execute permissions of installer.** Be sure that the installer is executable by the user who will run the installer.
- ▶ **Run the installer.** You can run the installer in a graphical user interface, from the command line, or silently. Instructions for each method appear below.

Graphical installation wizard

The graphical installation wizard displays a graphical interface that will ask you about installation parameters. You will need an X Window System.

- ▶ At the UNIX prompt, change to the directory where the installer file was copied or extracted:
- ▶ Run the installer by executing the following command:
./<installer_name>
- ▶ After the installation wizard is launched, follow the instructions that appear on the screen.

Command line installation

The command line installation uses command prompts to specify installation parameters.

- ▶ At the UNIX prompt, change to the directory where the installer file was copied or extracted:
- ▶ Run the installer by executing the following command:

```
./<installer_name> -i console
```

Where *<installer_name>* is the installer *.bin* file.

- ▶ Follow the instructions that appear on the screen.

Silent installation

Silent mode enables the installation without any user interaction. Installation parameters are specified as a properties file.

- ▶ Copy *installer.properties* from the *Documentation* folder, on either the DVD or the download bundle, to the same location where you copied the installer.
- ▶ Go to the location where you copied the installer files and open *installer.properties* in a text editor.
- ▶ Set the value for `USER_INSTALL_DIR` to the desired installation directory. The directory path cannot contain spaces. If you want to install to the default installation directory, comment out this line; do not leave it set to *<value>*.
- ▶ Save the file.
- ▶ Run the installer by executing the following command:

```
./<installer_name> -f installer.properties
```

Where *<installer_name>* is the installer *.bin* file.

IP Address

If the server machine has multiple IP addresses, IBM® SPSS® Modeler Server just picks one to use. This might not be the one you want to use. However, you can configure IBM SPSS Modeler Server to use the correct one. Also, if you want IBM SPSS Modeler Server to service multiple IP addresses, you must install IBM SPSS Modeler Server on the server machine in multiple directories. You must then configure each IBM SPSS Modeler Server installation to service one of the IP addresses. Use the administration console to configure IBM SPSS Modeler Server to use the correct IP address.

After You Install IBM SPSS Modeler Server

This section describes some required and optional steps that you can perform after installation. It does not describe all possible configuration options. You can find information about all the configuration options in the *IBM SPSS Modeler Server and Performance Guide*.

Installing the Administration Console for IBM SPSS Collaboration and Deployment Services Deployment Manager

The IBM® SPSS® Collaboration and Deployment Services Deployment Manager provides a user interface to monitor and configure your IBM® SPSS® Modeler Server installations, and is available free-of-charge to current customers of that product. Deployment Manager can only be installed on Windows computers; however, it can administer IBM SPSS Modeler Server installed on any supported platform.

To install this component:

- ▶ Insert the IBM® SPSS® Modeler ServerDVD into the DVD drive. The AutoPlay feature presents a menu.
- ▶ On the AutoPlay menu, click Install Modeler Administration Console, and then follow the instructions that appear on the screen.

Configuring IBM SPSS Modeler to Work with IBM SPSS Statistics

To enable IBM® SPSS® Modeler to use the Statistics Transform, Statistics Model, and Statistics Output nodes, you must have a copy of IBM® SPSS® Statistics installed and licensed on the computer where the stream is run.

If running SPSS Modeler in local (standalone) mode, the licensed copy of SPSS Statistics must be on the local computer.

When you have finished installing this copy of SPSS Modeler Client, you will also need to configure it to work with SPSS Statistics. From the main client menu, choose:

Tools > Options > Helper Applications

and on the SPSS Statistics tab, specify the location of the local SPSS Statistics installation you want to use. For more information, see the *Source, Process and Output Nodes* guide or the online help for Helper Applications.

In addition, if running in distributed mode against a remote IBM® SPSS® Modeler Server, you also need to run a utility at the SPSS Modeler Server host to create the *statistics.ini* file, which indicates to SPSS Statistics the installation path for SPSS Modeler Server. To do this, from the command prompt, change to the SPSS Modeler Server *bin* directory and, for Windows, run:

```
statisticsutility -location=<IBM SPSS Statistics_installation_path>/
```

Alternatively, for UNIX, run:

```
./statisticsutility -location=<IBM SPSS Statistics_installation_path>/bin
```

If you do not have a licensed copy of SPSS Statistics on your local machine, you can still run the Statistics File node against a SPSS Statistics server, but attempts to run other SPSS Statistics nodes will display an error message.

Enabling IBM SPSS Statistics Programmability

If you have IBM® SPSS® Statistics installed and you want to be able to call its Python or R plugins through the SPSS Statistics nodes in IBM® SPSS® Modeler Server, you must take the following steps on the UNIX server to enable the plugins.

- ▶ Log in as the superuser.
- ▶ Export environment variables as follows:
 - **Linux or Solaris.** export
LD_LIBRARY_PATH=[plugin_install_directory]/lib:\$LD_LIBRARY_PATH
 - **AIX.** export LIBPATH=[plugin_install_directory]/lib:\$LIBPATH
 - **HP-UX.** export SHLIB_PATH=[plugin_install_directory]/lib:\$SHLIB_PATHwhere *plugin_install_directory* is the directory to which the Python or R plugin is installed.

Creating Links for SSL on AIX Systems

On AIX systems, if you want to use Secure Sockets Layer (SSL) for secure data transfer, you need to create links for SSL before starting IBM® SPSS® Modeler Server. To do so, enter the following commands.

```
rm -f libssl.so
ln -f -s libssl.so.0.9.8 libssl.so
rm -f libcrypto.so
ln -f -s libcrypto.so.0.9.8 libcrypto.so
```

Starting the Process

IBM® SPSS® Modeler Server runs as a daemon process and has root privileges by default. IBM SPSS Modeler Server can be configured to run without root privileges, with some consequent restrictions on client connections. Refer to the *IBM SPSS Modeler Server and Performance Guide* for more information.

To Start IBM SPSS Modeler Server

Start the application by running a startup script, *modelersrv.sh*, which is included in the installation directory. The startup script configures the environment for and executes the software.

- ▶ Log in as *root*. Alternatively, you can log in as *non-root* if the non-root user is also the user who installed IBM SPSS Modeler Server.
- ▶ Change to the IBM SPSS Modeler Server installation directory. The startup script must be run from this location.
- ▶ Run the startup script. For example, at the UNIX prompt type:

```
./modelersrv.sh start
```

Checking the Server Status

Use the list command to get information about what server processes are running and to report process status. For example:

- ▶ At the UNIX prompt, type:
/modelersrv.sh list
- ▶ Look at the output, which is similar to what the UNIX ps command produces. If the server is running, you will see it as the first process in the list.

IBM® SPSS® Modeler Server is now ready to accept connections from end users when they have been authorized. For more information, see the topic “Connecting End Users” on p. 11.

Connecting End Users

End users connect to IBM® SPSS® Modeler Server by logging in from the client software. See the *IBM SPSS Modeler Server and Performance Guide* for a description of how the software works and what you need to do to administer it. You must give end users the information that they need to connect, including the IP address or host name of the server machine.

IBM SPSS Data Access Pack Technology

To read or write to a database, you must have an ODBC data source installed and configured for the relevant database, with read or write permissions as needed. The IBM® SPSS® Data Access Pack includes a set of ODBC drivers that can be used for this purpose, and these drivers are available on the IBM SPSS Data Access Pack DVD or from the download site. If you have questions about creating or setting permissions for ODBC data sources, contact your database administrator.

Database support in IBM® SPSS® Modeler is classified into three tiers, each representing a different level of support for SQL pushback and optimization, depending on the database vendor. The different levels of support are implemented by means of a number of system settings, which can be customized as part of a Services engagement.

The three tiers of database support are:

Table 1-2
Database support tiers

Support tier	Description
Tier 1	All possible SQL pushback is available, with database-specific SQL optimization.
Tier 2	Most SQL pushback is available, with non-database-specific SQL optimization.
Tier 3	No SQL pushback or optimization—only reading data from, and writing data to, the database.

Supported ODBC Drivers

For the latest information on which databases and ODBC drivers are supported and tested for use with SPSS Modeler 15, see the product compatibility matrices on the corporate Support site (<http://www.ibm.com/support>).

Where to Install Drivers

Note that ODBC drivers must be installed and configured on each computer where processing may occur.

- If you are running IBM® SPSS® Modeler in local (standalone) mode, the drivers must be installed on the local computer.
- If you are running SPSS Modeler in distributed mode against a remote IBM® SPSS® Modeler Server, the ODBC drivers need to be installed on the computer where SPSS Modeler Server is installed. For SPSS Modeler Server on UNIX systems, see also “Configuring ODBC drivers on UNIX systems” later in this section.
- If you need to access the same data sources from both SPSS Modeler and SPSS Modeler Server, the ODBC drivers must be installed on both computers.
- If you are running SPSS Modeler over Terminal Services, the ODBC drivers need to be installed on the Terminal Services server on which you have SPSS Modeler installed.
- If you are using the IBM® SPSS® Modeler Solution Publisher Runtime to run published streams on a separate computer, you also need to install and configure ODBC drivers on that computer.

Note: If you are using SPSS Modeler Server on UNIX to access a Teradata database you must use the ODBC Driver Manager that is installed with the Teradata ODBC driver. In order to make this change to SPSS Modeler Server please specify a value for `ODBC_DRIVER_MANAGER_PATH` near the top of the `modelersrv.sh` script where indicated by the comments. This environment variable needs to be set to the location of the ODBC Driver Manager that is shipped with the Teradata ODBC driver (`/usr/odbc/lib` in a Teradata ODBC driver default installation). You must restart SPSS Modeler Server for the change to take effect. For details of the SPSS Modeler Server platforms that offer support for Teradata access, and the Teradata ODBC driver version that is supported, see the corporate Support site at <http://www.ibm.com/support>.

Configuring ODBC drivers on UNIX systems

By default, the DataDirect Driver Manager is not configured for SPSS Modeler Server on UNIX systems. To configure UNIX to load the DataDirect Driver Manager, enter the following commands:

```
cd modeler_server_install_directory/bin
rm -f libspssodbc.so
ln -s libspssodbc_datadirect.so libspssodbc.so
```

Doing so removes the default link and creates a link to the DataDirect Driver Manager.

Configuring IBM SPSS Modeler Server for Data Access

If you want to use the IBM® SPSS® Data Access Pack with IBM® SPSS® Modeler Server, you will need to configure the startup scripts. This is a critical step because data access will not work otherwise. For instructions, refer to the *IBM SPSS Modeler Server and Performance Guide*.

In-Database Modeling

IBM® SPSS® Modeler supports integrated modeling with IBM Netezza, IBM InfoSphere Warehouse, Microsoft Analysis Services, and Oracle Data Mining. Doing so allows you to harness the power of your database by using native algorithms provided by these vendors. You can build, score, and store models inside the database—all from within the SPSS Modeler application, combining the analytical capabilities and ease-of-use of SPSS Modeler with the power and performance of a database.

For more information, see the file *DatabaseMiningGuide.pdf*, available under the *\Documentation* folder on the IBM® SPSS® Modeler installation disk.

Uninstalling

Uninstall IBM® SPSS® Modeler Server by removing the program files and, if you have configured the system for automatic startup, disabling automatic startup.

To Remove the Program Files

- ▶ Stop the server process. Instructions for stopping the server process are in the *IBM SPSS Modeler Server and Performance Guide*.
- ▶ Remove the installation directory.

To Disable Automatic Startup

The IBM SPSS Modeler Server includes a script that you can use to configure your system to start the server daemon automatically when the computer is rebooted (the instructions appear in the *IBM SPSS Modeler Server and Performance Guide*).

- ▶ Remove the automatic startup files shown in the following table:

Table 1-3
Automatic startup files to remove

Operating system	Remove file(s)
Solaris	/etc/init.d/rc.modeler /etc/rc3.d/S99modelersrv /etc/rc0.d/K99modelersrv /etc/rc1.d/K99modelersrv /etc/rc2.d/K99modelersrv