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# Installation Instructions for JMP Genomics 5.1

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These instructions describe the process for downloading and installing JMP Genomics 5.1 on your Windows desktop machine. These instructions include three major sections:

## 1 Download the Software

JMP Genomics 5.1 is downloaded using a small utility program called the SAS Download Manager. You will first download and install the SAS Download Manager and then run the Download Manager to download the installation files for JMP Genomics 5.1.

If you elected to receive JMP Genomics electronically over the Internet, you will download the software according to the instructions in [“Step 1: Download and Run the SAS Download Manager Application,” p. 4.](#)

If you elected to receive JMP Genomics on DVDs, you will download the software according to the instructions in [“Appendix 1: Installing JMP Genomics from DVD,” p. 26.](#)

The installation files are placed in a folder known as the SAS software Depot. The SAS software Depot is large (almost 7 Gigabytes), and it might take several hours for the SAS Download Manager to complete the download process.

## 2 Install the Software

Follow the instructions detailed in [“Step 2: Install JMP Genomics Software,” p. 11.](#)

## 3 Appendixes

Appendixes provide instructions and suggestions for managing atypical installations and situations.

[\*Appendix 1: Installing JMP Genomics from DVD\*](#)

[\*Appendix 2: Uninstall prior versions of JMP Genomics before you install JMP Genomics 5.1.\*](#)

[\*Appendix 3: Increasing the Memory Allocation for SAS Processes Run under JMP Genomics\*](#)

[\*Appendix 4: Installing JMP Genomics on a Federal Desktop Core Configuration \(FDCC\) Configured Machine\*](#)

[\*Appendix 5: Installing JMP Genomics on a Computer Configured for Use with a Language Other than English\*](#)

[\*Appendix 6: Installing JMP Genomics 32-bit on a 64-bit Machine\*](#)

### **Before installing JMP Genomics, you should note the following important items:**

- There are two versions of JMP Genomics 5.1: one for 64-bit computers and one for 32-bit computers. You **must** load the proper configuration on your machine. JMP Genomics 64-bit does not work properly on 32-bit machines and is not supported. JMP Genomics 32-bit is not supported for use on a 64-bit machine. If you have the wrong version for your machine,

you should contact your JMP sales representative to receive the correct version of JMP Genomics.

- If you are upgrading from JMP Genomics 5.0 to JMP Genomics 5.1, you must uninstall JMP Genomics 5.0 before installing JMP Genomics 5.1. See [“Appendix 2: Uninstall prior versions of JMP Genomics before you install JMP Genomics 5.1.”](#) p. 33 for instructions.
- A SAS software depot can be used by multiple users. If there are multiple JMP Genomics users at your site, either the site administrator or a designated user should download the software (either electronically or from the DVDs) to a single SAS software depot. This depot should be located on a network server that is accessible to every user. Registered users can then use that single depot to install the software on their local machines.
- You should keep at least one copy of your SAS software depot, in case you need to reinstall the software again in the future.
- If you are installing JMP Genomics 5.1 on a Federal Desktop Core Configuration (FDCC) configured 32-bit machine running Windows XP, refer to [“Appendix 4: Installing JMP Genomics on a Federal Desktop Core Configuration \(FDCC\) Configured Machine,”](#) p. 34 before installing the software.
- JMP Genomics is not supported for use in any language other than English. However, it might be possible to install on a non-English machine See [“Appendix 5: Installing JMP Genomics on a Computer Configured for Use with a Language Other than English,”](#) p. 34 for more information.

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## Description of Your Package

### Electronic Delivery

After you submit your signed paperwork for JMP Genomics 5.1, you will receive an e-mail listing your site’s order number, an installation key code specific to this order and contact information for SAS Technical support.

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## Your Order Information:

Order Number:  
 SAS Installation Key:  
 Date:  
 Space Required for SAS Software Depot:  
 Software Status:

[Your Order Number  
 and Installation Key](#)  
 August 09, 2011  
 6.7GB  
 Pre-production

SAS Installation Representative  
[Your Name](#)

E-mail Address  
[Your Email Address](#)

Tech Support Site Number  
 70107855  
 70107856

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## Information for Tech Support Site 70107855:

Site Name:  
 Tech Support Site Number:  
 Contracts Site Number:  
 Deployment Type:  
 Operating System:  
 Product:

R&D PACKAGE VALIDATION  
 70107855  
 594104  
 Planned (Deployment plan needed)  
 Microsoft® Windows® Server & Workstation for x64  
 SAS 9.3, Rev. 930\_11w37

Product(s) Ordered  
 Base SAS  
 JMP Genomics

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## Information for Tech Support Site 70107856:

Site Name:  
 Tech Support Site Number:  
 Contracts Site Number:  
 Deployment Type:  
 Operating System:  
 Product:

R&D PACKAGE VALIDATION  
 70107856  
 594105  
 Planned (Deployment plan needed)  
 Microsoft® Windows® for x64  
 JMP 9.0.2, Rev. 930\_11w37

Product(s) Ordered  
 JMP for Genomics

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## DVD Delivery

You can, in some cases, elect to receive JMP Genomics on DVD. See [“Appendix 1: Installing JMP Genomics from DVD,” p. 26](#) for specific instructions for installing JMP Genomics from DVD.

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## Before You Install JMP Genomics 5.1

- ☞ Terminate all non-essential applications.
- ☞ If the SAS Job Spawner is running as a service, it must be disabled.
- ☞ Disable any anti-virus software that might be running.
- ☞ Determine the version of the Windows operating system that you are using and whether you are installing JMP Genomics on a 32-bit or 64-bit machine.

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## Step 1: Download and Run the SAS Download Manager Application

### You will NOT need to install the SAS Download Manager if:

- Your IT administrator has already done so. You will need to know the location of the SAS software depot. You should skip Step 1 and proceed directly to [“Step 2: Install JMP Genomics Software,” p. 11.](#)

### You will need to install the SAS Download Manager if:

- You are a single user of JMP Life Sciences software.
- You are an IT administrator managing the software for multiple users.

☞ Install the SAS Download Manager as described below.

The e-mail listing your site’s order number, an installation key code will also contain a link (circled below) to the SAS Download Manager. The SAS Download Manager application must be downloaded and used to generate a local SAS Software Depot before JMP Genomics 5.1 can be installed.

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#### 1 Download the SAS Download Manager.

<http://image1.unx.sas.com/tools/esdclient/>

The SAS Download Manager is the application you must use to download your software.

**NOTE:** If you are a Cary Install Depot user, then you do NOT need to download and install the SAS Download Manager application; just use the “Download” links on the Custom Order tab.

If you are a remote user, then follow the above link to download and install the SAS Download Manager. Then go to: <http://image1.unx.sas.com/preferences/> and change your esdClientWin value using the example provided on the page. Using the “Download” links on the Custom Order tab will now result in much better performance because you will be using the local copy of the SAS Download Manager instead of invoking an application across a remote connection.

#### 2 Download your SAS software using the SAS Download Manager.

When you are ready to begin downloading your software, follow the instructions in the readme file from the download site to start the SAS Download Manager. When prompted, provide the following information to the SAS Download Manager:

- **Order number:** [Your Order Number](#)
- **SAS installation key:** [Your Installation Key](#)

When the download process is complete the SAS Download Manager will have created a SAS Software Depot, the repository for your SAS software, in the location you indicated in the SAS Download Manager dialogs. In addition, the installation process creates a depotsummary.html document at the root of your SAS Software Depot that describes the contents of the depot.

#### 3 Install your SAS software.

Follow the instructions in the *QuickStart Guide: SAS® 9.3 Planned Deployments using Electronic Software Delivery*. The *QuickStart Guide* describes how to obtain a deployment plan, which is an XML-based description of the topology of the intended final SAS software deployment for your system. The *QuickStart Guide* can be located by selecting the appropriate link on your depotsummary.html described in Step 2 or at <http://support.sas.com/qsqedplan93.html>.

**Note:** The process of downloading your software from SAS should not be used as a mechanism for distributing your software across your organization. The SAS download site will limit the number of downloads that may be performed per order. If you need to distribute the software image internally, download it to a networked location that is available to all systems where the software needs to be installed. Alternately, you can create your own media from your downloaded image using the tools provided. The installation of either internal distribution method is subject to your number of licensed users or copies.

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- ☞ Click the link in step 1 of the e-mailed instructions to open the download window in your web browser.
- ☞ Select your Windows platform.

In this example, we are installing 64-bit JMP Genomics 5.1 on a Windows 7 machine. Therefore, we chose Microsoft Windows for x64. If you are installing JMP Genomics 5.1 on a 32-bit machine, choose Windows.

## Tools > SAS Download Manager

The SAS Download Manager is a Java-based client that, once installed, can access the SAS software repository in order to download selected SAS orders. The JRE required by the SAS Download Manager is included with the download below and will be installed in to a temporary directory. The SAS Download Manager, once fully extracted and installed, requires approximately 30MB of space to run. It is not necessary to download the application to the same location you intend to eventually install your SAS software order. If you decide to move the SAS Download Manager to another location once it has been downloaded, ensure that the new location has external access to the internet.

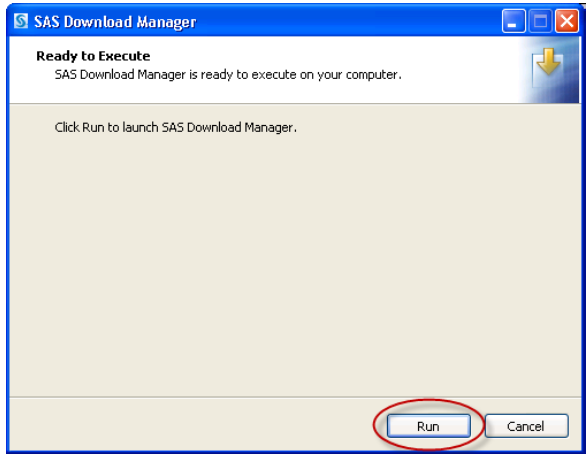
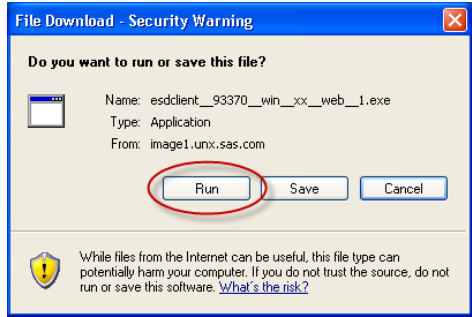
**Note:** After installing the client below you will likely want to change your [ESD Client preferences](#) to point to your locally installed copy.

**Readme:** [Documentation for SAS Download Manager Web Downloads](#)

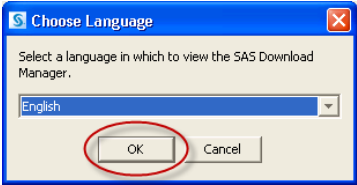
### Latest Validated Installers

Platform	Size	Updated	Download
64-bit Enabled HP-UX	61 MB	02Aug11	<a href="#">esdclient_93370_h64_xx_web_1</a>
HP-UX IPF	98 MB	02Aug11	<a href="#">esdclient_93370_h6i_xx_web_1</a>
Linux for x64	47 MB	02Aug11	<a href="#">esdclient_93370_lax_xx_web_1</a>
Linux	47 MB	02Aug11	<a href="#">esdclient_93370_lnx_xx_web_1</a>
Macintosh	12 MB	02Aug11	<a href="#">esdclient_93330_mac_xx_web_1.dmg</a>
Macintosh	12 MB	02Aug11	<a href="#">esdclient_93370_mac_xx_web_1.dmg</a>
64-bit Enabled AIX	81 MB	02Aug11	<a href="#">esdclient_93370_r64_xx_web_1</a>
64-bit Enabled Solaris	52 MB	02Aug11	<a href="#">esdclient_93370_s64_xx_web_1</a>
Solaris for x64	46 MB	02Aug11	<a href="#">esdclient_93370_sax_xx_web_1</a>
Windows	31 MB	02Aug11	<a href="#">esdclient_93370_win_xx_web_1.exe</a>
Microsoft Windows for x64	31 MB	02Aug11	<a href="#">esdclient_93370_wx6_xx_web_1.exe</a>
z/OS	14 MB	02Aug11	<a href="#">esdclient_93370_mvs_xx_web_1.zos</a>

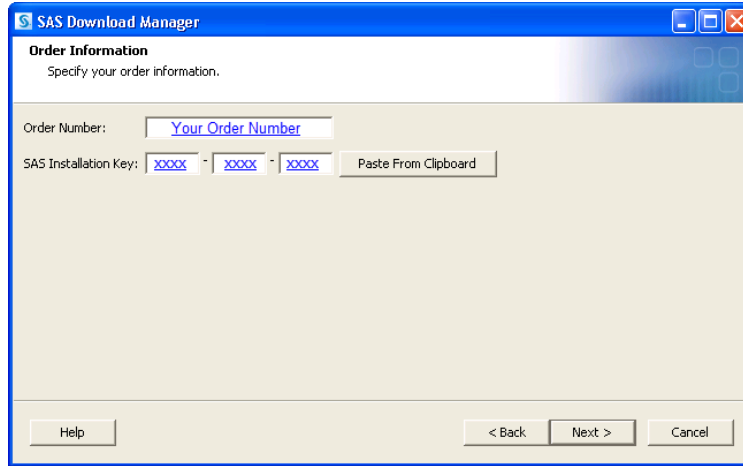
- ☞ Click the link for the desired platform.
- ☞ Click **Run** on each of the next three windows.



A window asking you to specify the language of your installation will open.

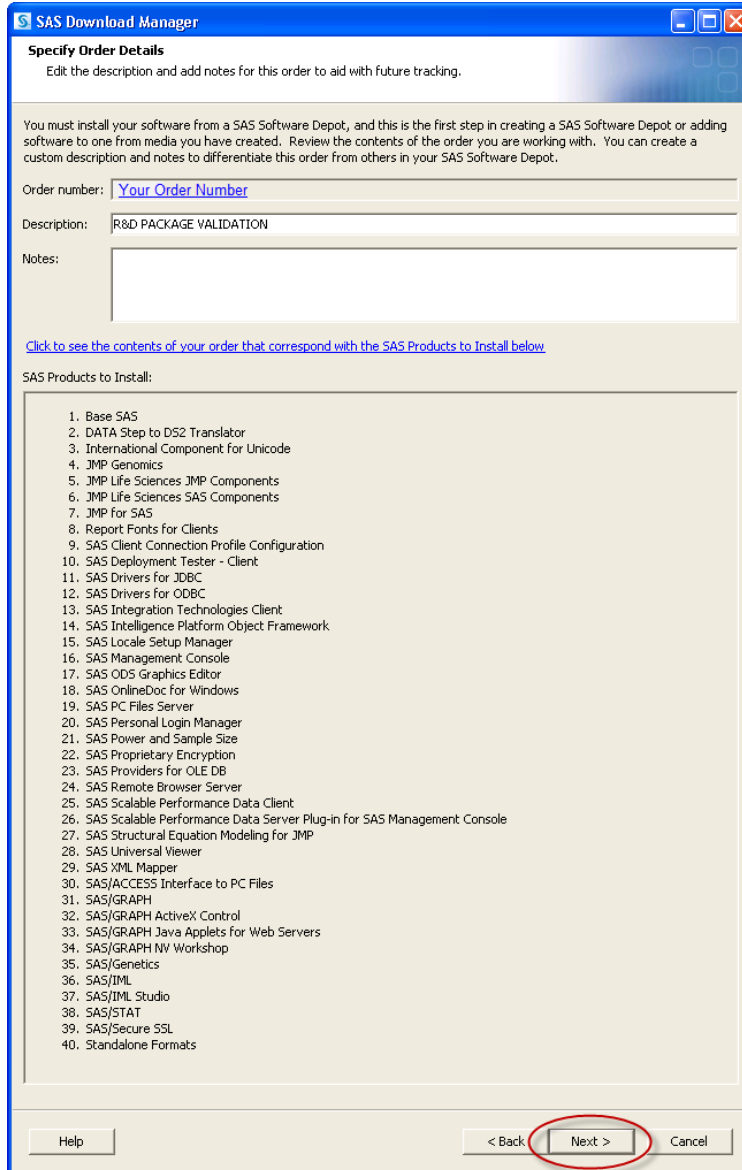


- ☞ Select **English** and click **OK**.
- ☞ Type your order number and installation key (from the e-mail) in the text fields.



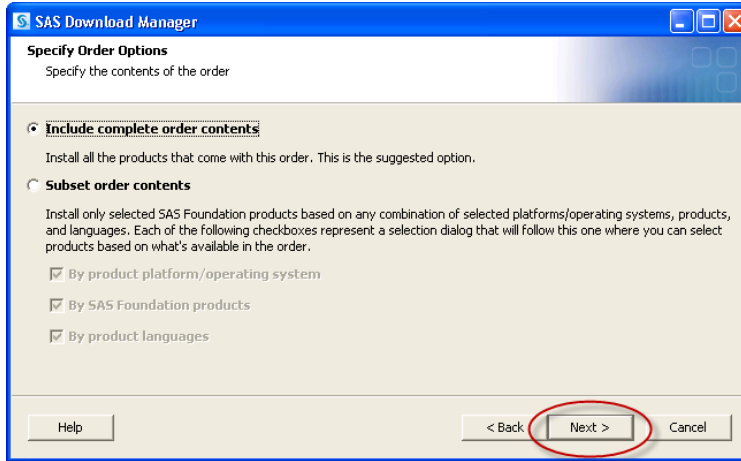
☞ Click **Next**.

☞ Examine the order details.



☞ Click **Next**.

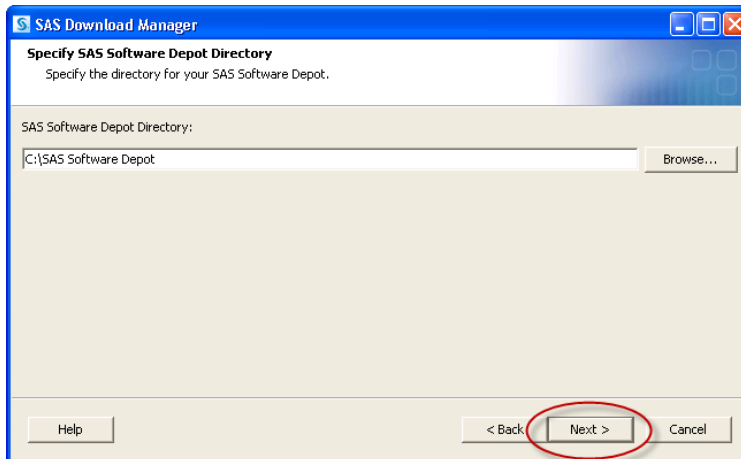
☞ Make sure that **Include complete order contents** is selected.



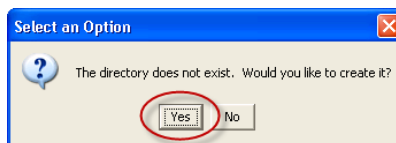
☞ Click **Next**.

☞ Specify where the software depot is to be installed.

By default, the software depot is installed to the C:\SAS Software Depot directory. If this directory does not exist, it is created for you. You should accept the default location unless there is a pressing need to place the software elsewhere.

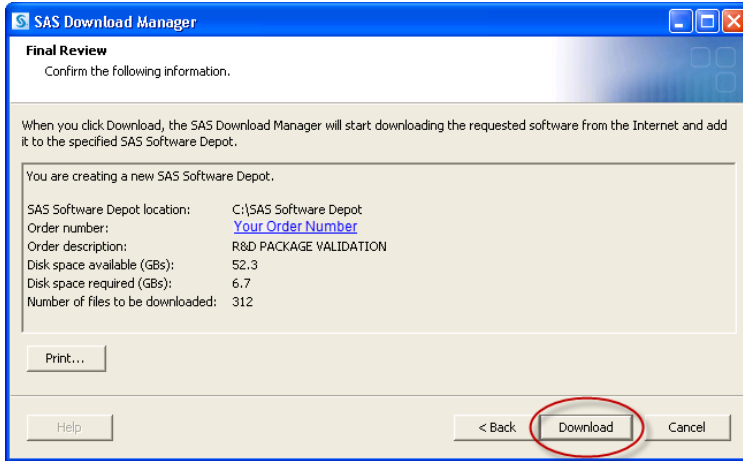


☞ Click **Next**.

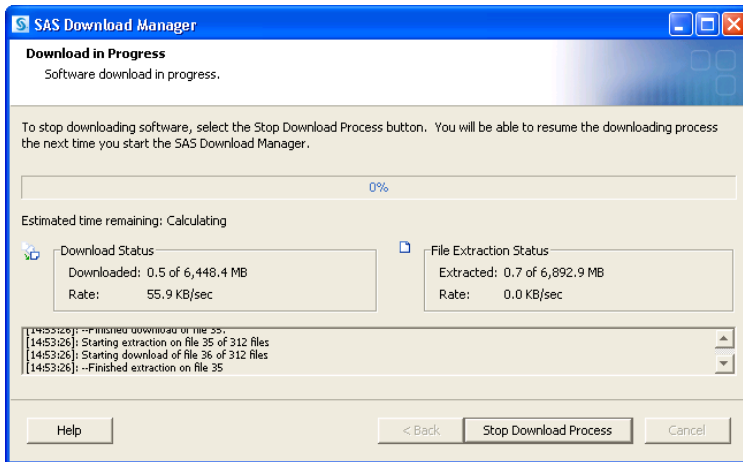


☞ Click **Yes**.

☞ Review the install information.



Click **Back** if you need to make any changes. Otherwise, click **Download**.  
The download process begins. You must wait for this process to complete.

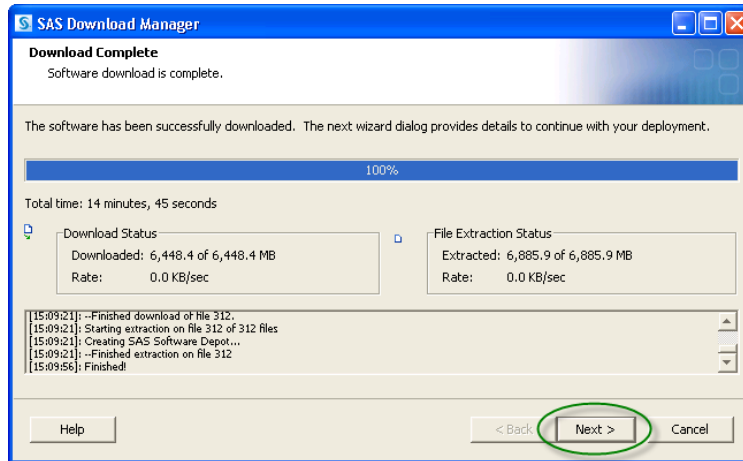


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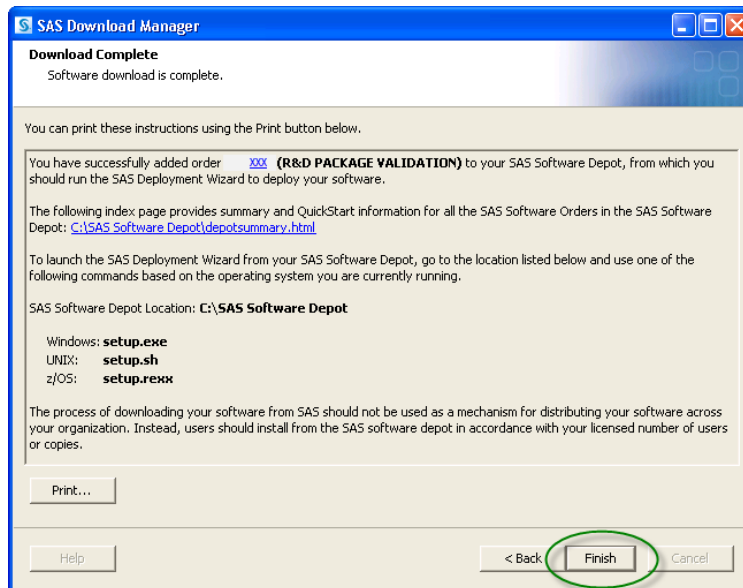
**Note:** This process can take an extended time.

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When the download process is complete, the **Next** button is surfaced.



☞ Click **Next**.



☞ Click **Finish**.

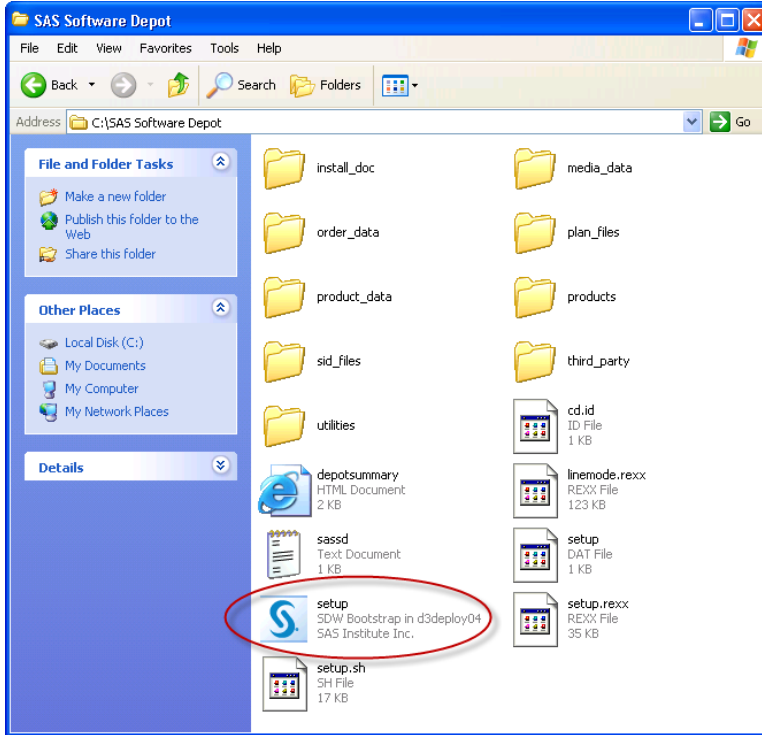
☞ Proceed to [“Step 2: Install JMP Genomics Software,” p. 11.](#)

## Step 2: Install JMP Genomics Software

**Step 2a: Determine the location of the JMP Genomics software to be installed.**

By default, the location of the depot is C:\SAS Software Depot.

### Step 2b: Open the SAS Software Depot.

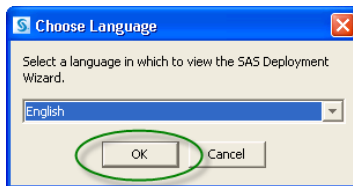


☞ Double-click on the setup icon (  ) to open the application.

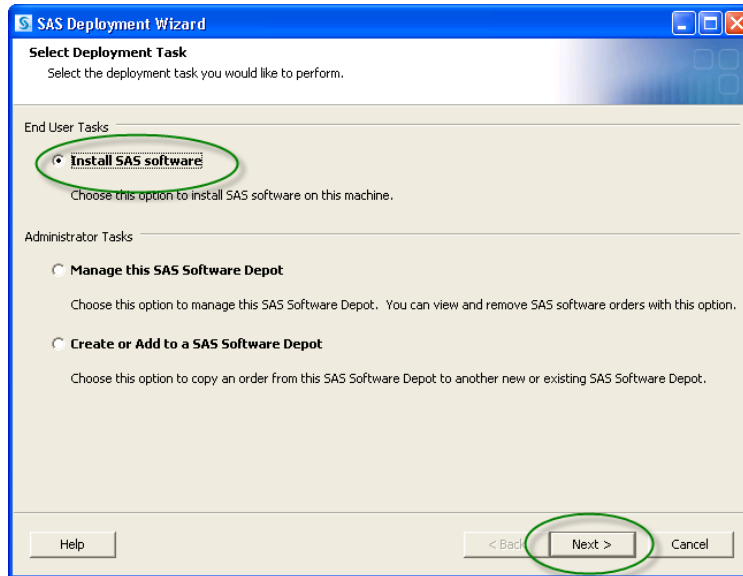
☞ Proceed to Step 2c.

### Step 2c: Installation

☞ Select **English** as the language that you want to view the SAS Deployment Wizard to display and click **OK**.

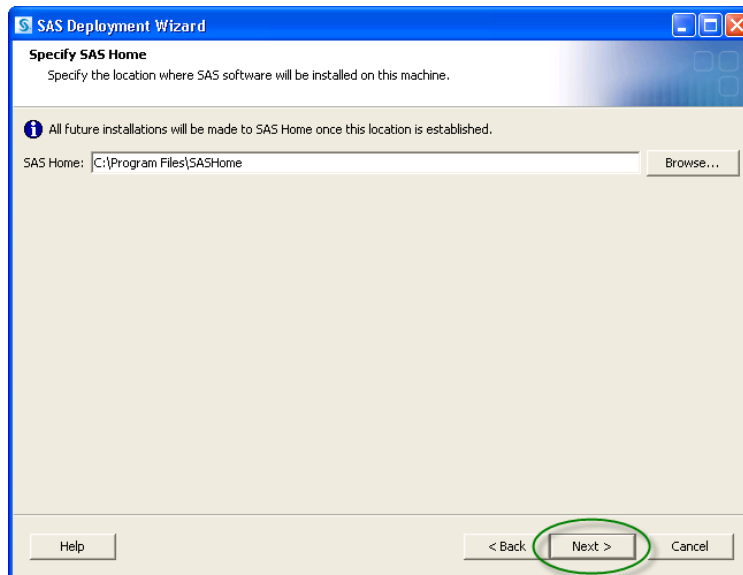


☞ Select **Install SAS Software** and click **Next**.



☞ Specify where the software is to be installed.

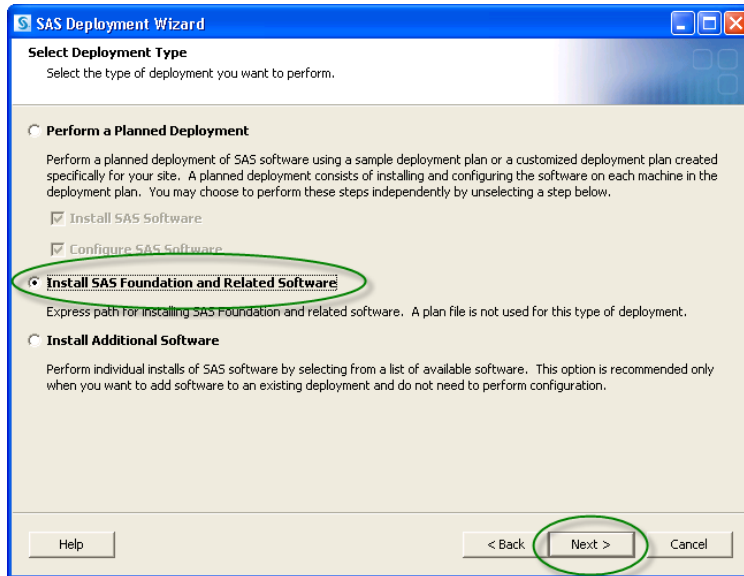
By default, JMP Genomics software is installed to the C:\Program Files\SASHome directory. If this directory does not exist, it is created for you. You should accept the default location unless there is a pressing need to place the software elsewhere.



☞ Click **Next**.

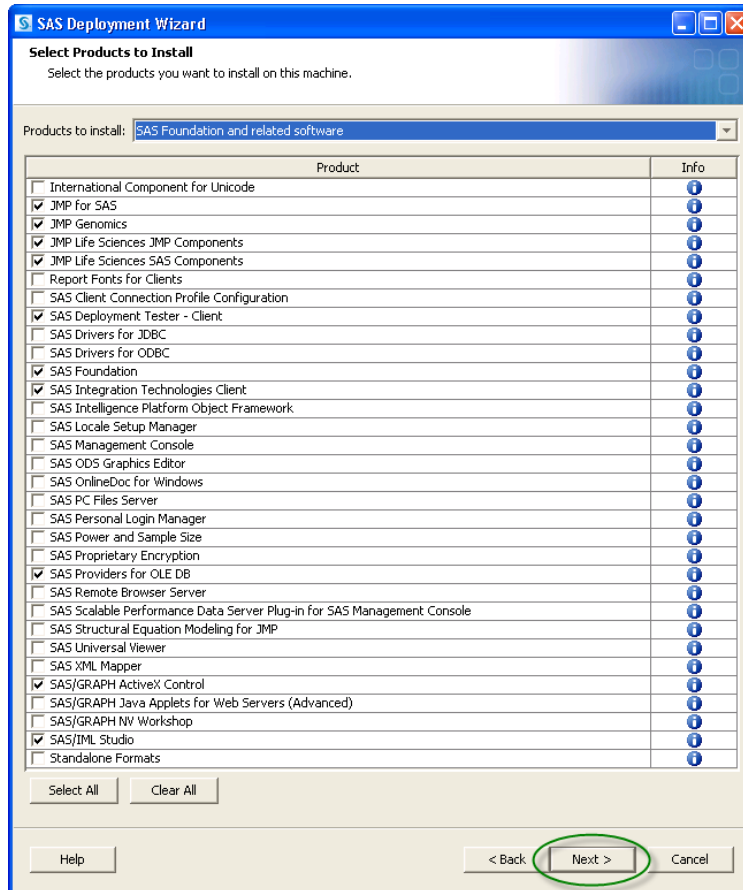
☞ Specify the type of deployment that you want to perform.

In most cases, unless you are an IT administrator, you will only be installing SAS Foundation and related software.



☞ Select **Install SAS Foundation and Related Software** and click **Next**.

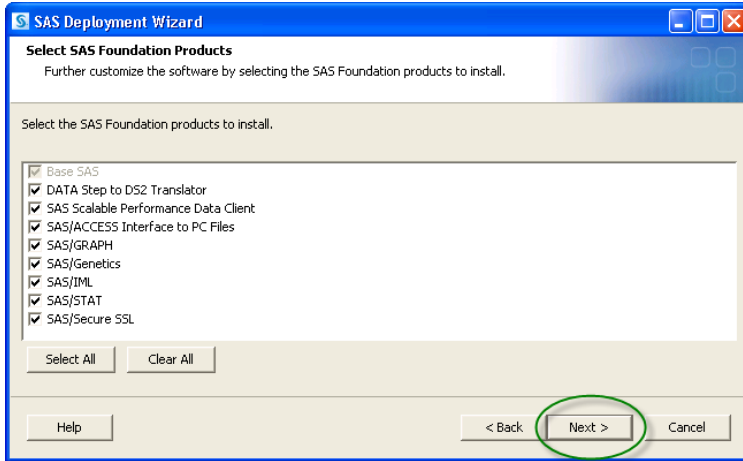
The list of software to be installed is shown.



☞ Make no changes to the selections.

☞ Click **Next**.

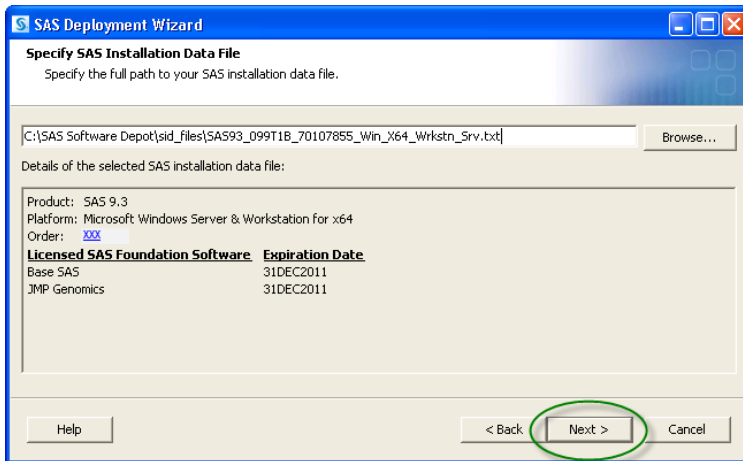
The list of SAS products to be installed is shown.



☞ Make no changes to the selections.

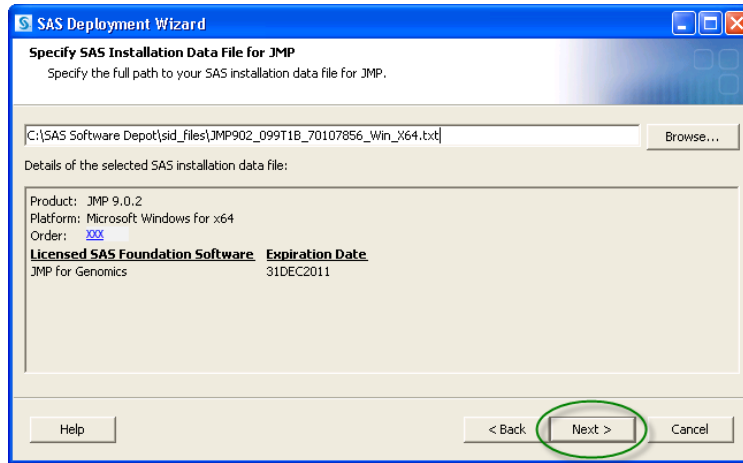
☞ Click **Next**.

The list of licensed SAS products and their expiration dates is shown.

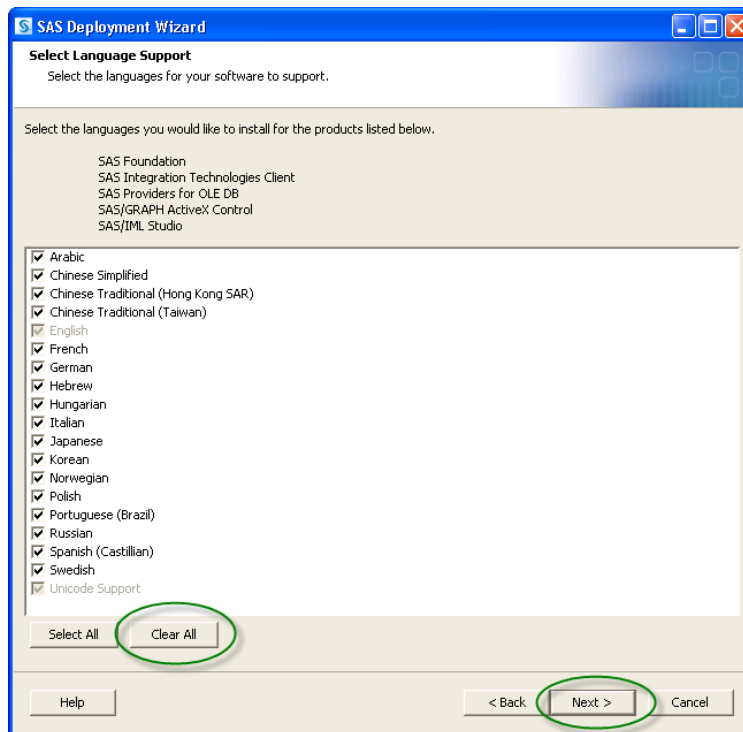


☞ Click **Next**.

The list of licensed JMP products and their expiration dates is shown.



The list of language support files to be installed is shown.

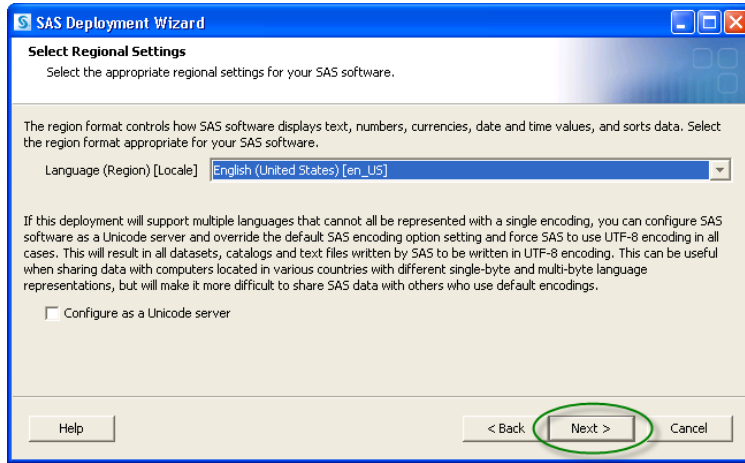


**Note:** JMP Genomics is currently an English-only product. To save hard disk space, you should install English support only.

☞ Click **Clear All** to deselect all languages except for English.

☞ Click **Next**.

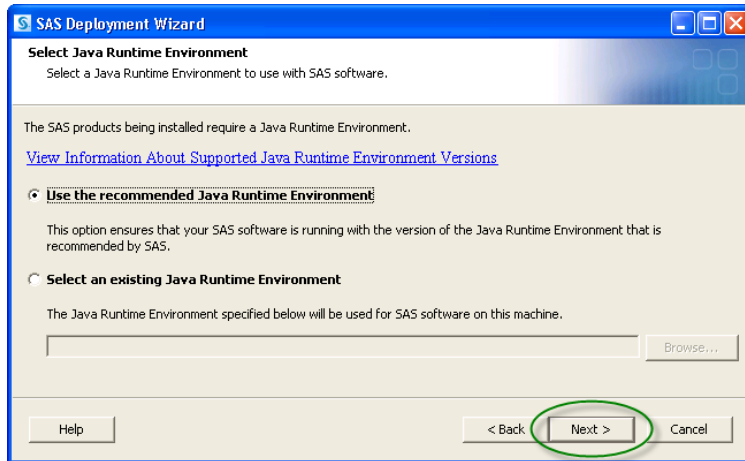
☞ Select your regional setting.



☞ Click **Next**.

☞ Select the appropriate Java Runtime Environment.

In most cases, you should select the recommended Java Run-time environment. Although you can specify an existing environment if it is needed for another application, you should be aware that it might not work properly with your SAS installation.

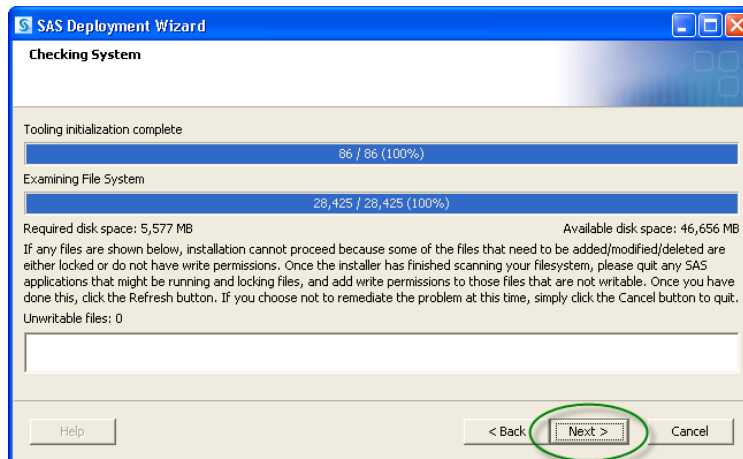
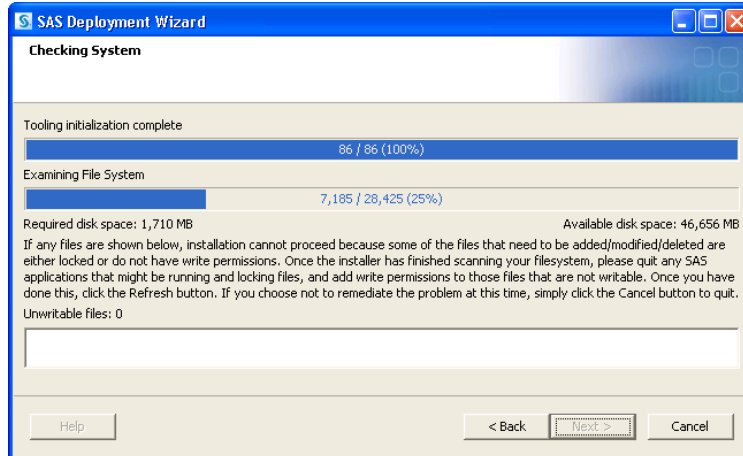
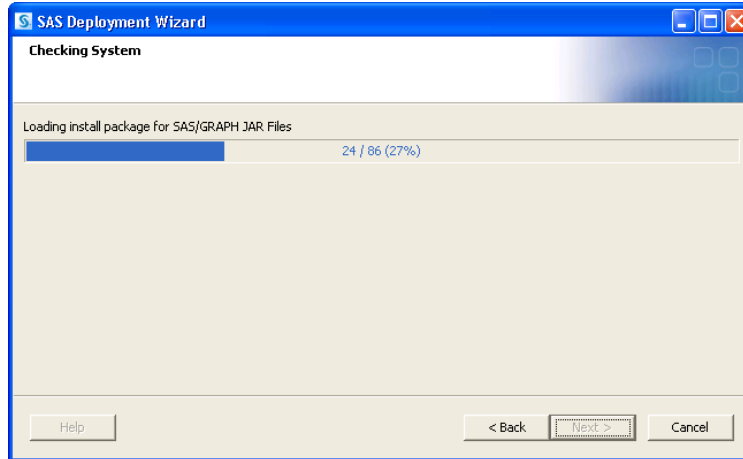


☞ Click **Next**.

The Installer begins by checking your system for required components. You must wait for this process to complete.

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**Note:** This process can take an extended time.



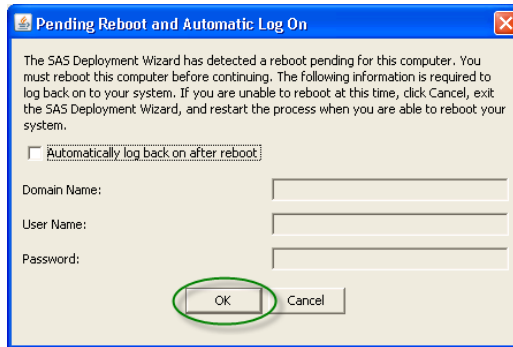
Click **Next** when the System Check is complete.

🔗 Examine the Deployment Summary.



🔗 Click **Start** to begin the installation.

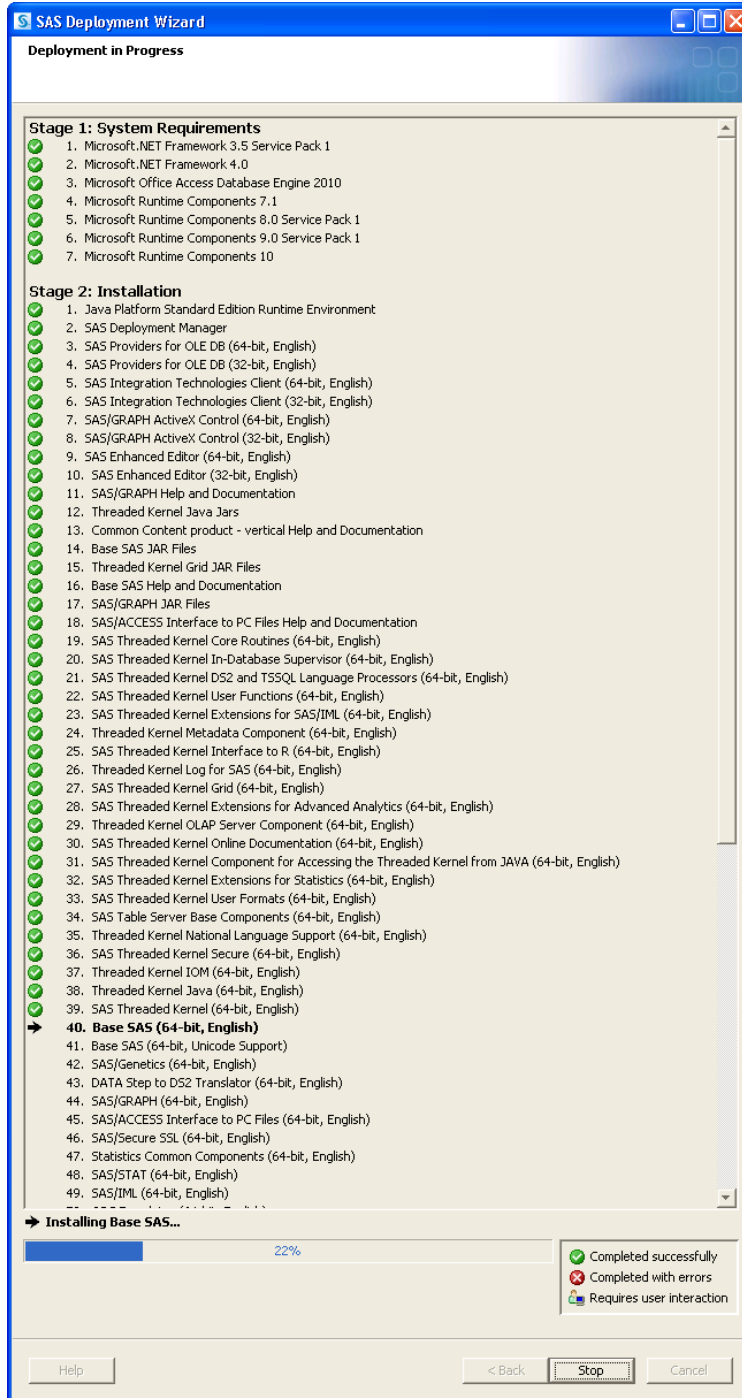
The installer begins by laying down the required system software and then proceeds to install the SAS components. The installation might require one or more machine reboots. If so, you will see the following message:



☞ Click **OK** to reboot.

The installer should automatically resume installing the software when you log back in to your machine. If it does not resume, relaunch the Deployment Wizard.

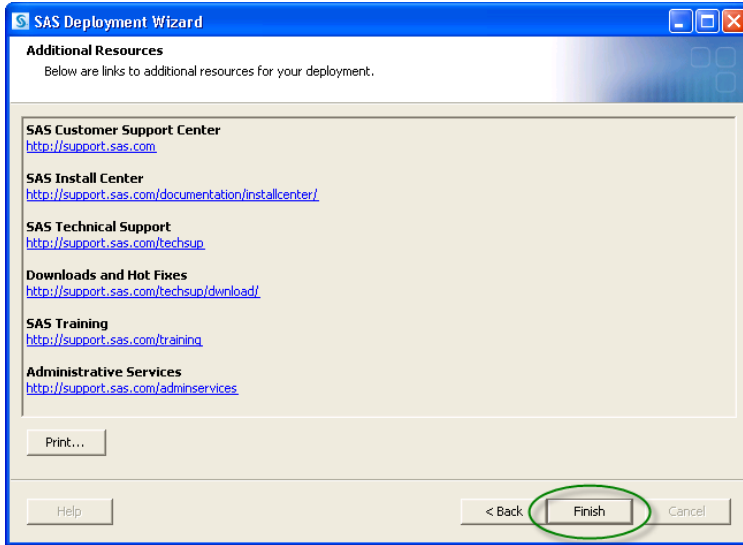
As each component is successfully installed, a green checkmark appears.



The **Next** button becomes active when the installation is complete.



Click Next.

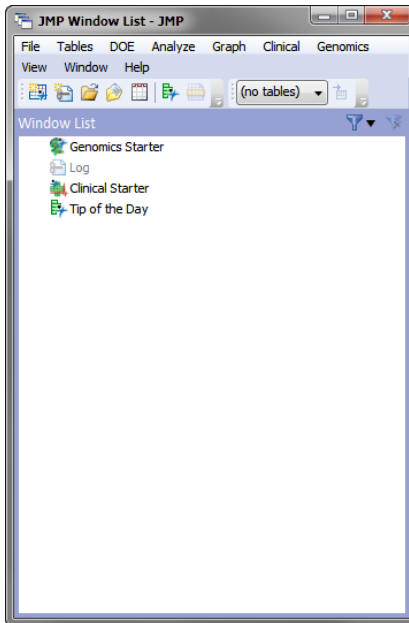
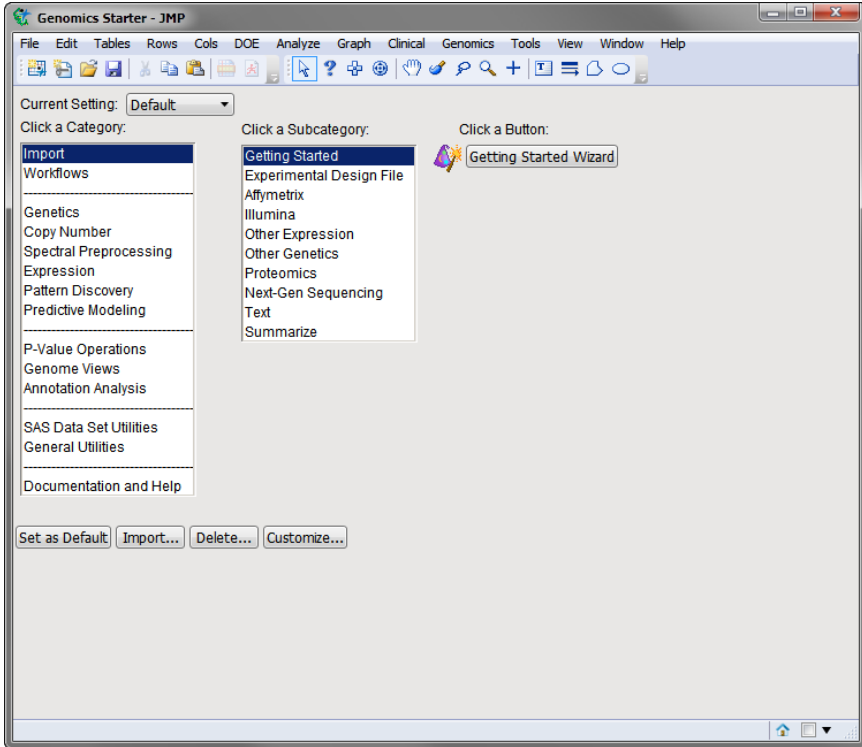


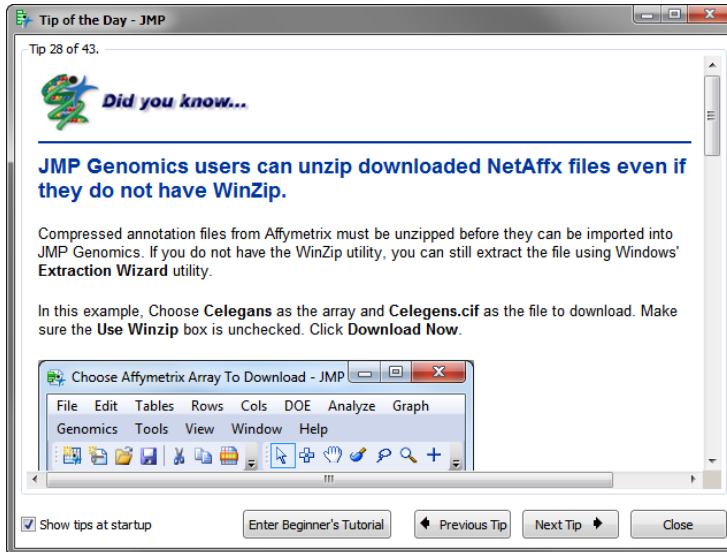
☞ Click **Finish** to complete the installation and close the Deployment Wizard.

**Step 2d: Verify that JMP Genomics has been successfully installed.**

☞ Click **Start > All Programs > SAS > JMP Genomics** to open JMP Genomics.

Several windows should open. These include the Genomics Starter, the JMP Window List, and a randomly selected Tip of the Day.





You should run at least one process (**Distribution Analysis**, for example) using one of the sample settings to verify successful installation.

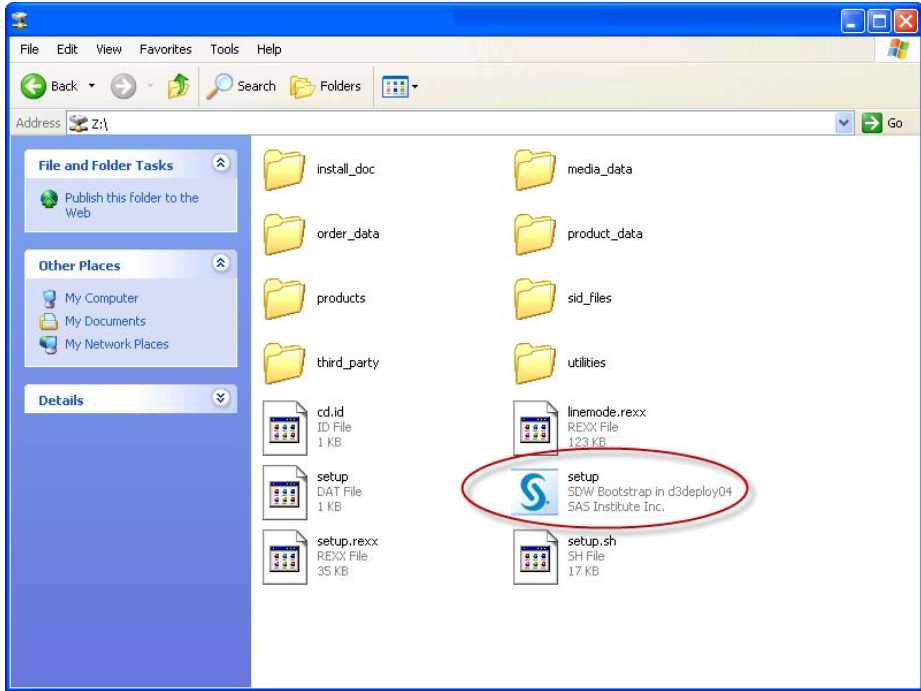
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## Appendix 1: Installing JMP Genomics from DVD

After you submit your signed paperwork for JMP Genomics 5.1, you will receive an installation package containing two DVDs. The DVDs contain both your software and the SAS Download Manager. The package also includes an information sheet listing your order number, an installation key code specific to your order and contact information for SAS Technical support.

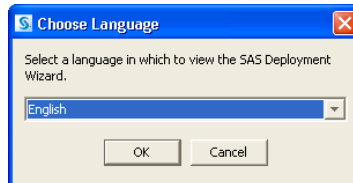
### Installing the Software

- ☞ Insert the disk labeled **SAS Software Disk 1**.
- ☞ Navigate into the disk's directory (shown below).



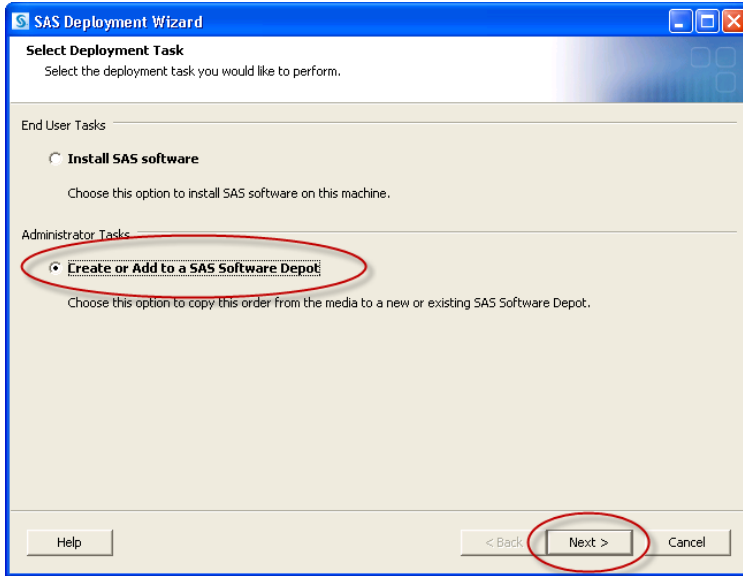
☞ Double-click on the setup icon (  ) to open the application.

A window asking you to specify the language of your installation will open.



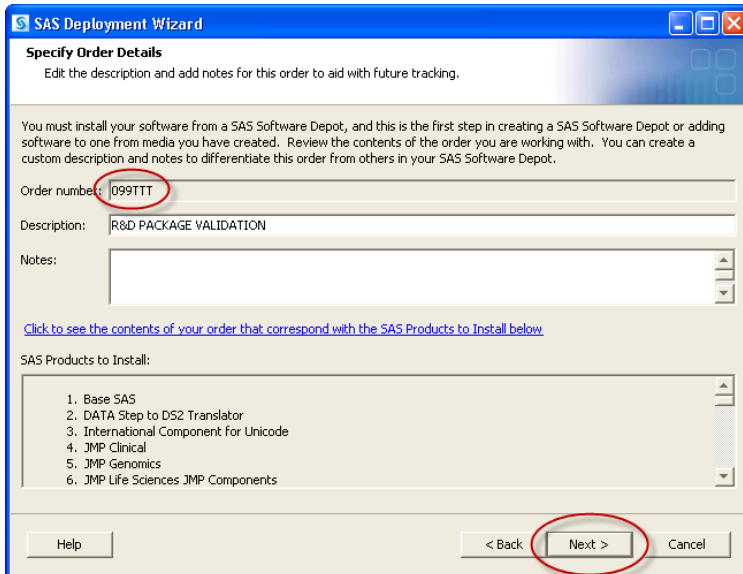
☞ Select English and click **OK** to start the SAS Deployment Wizard.

You will be asked to select a deployment task.



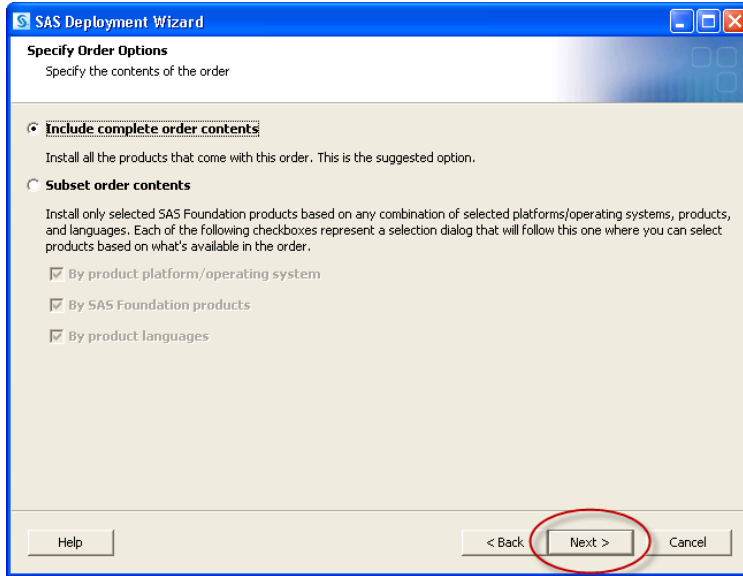
☞ Select **Create or Add to a SAS Software Depot** and click **Next**.

Your order details should be specified automatically.



☞ Click **Next**.

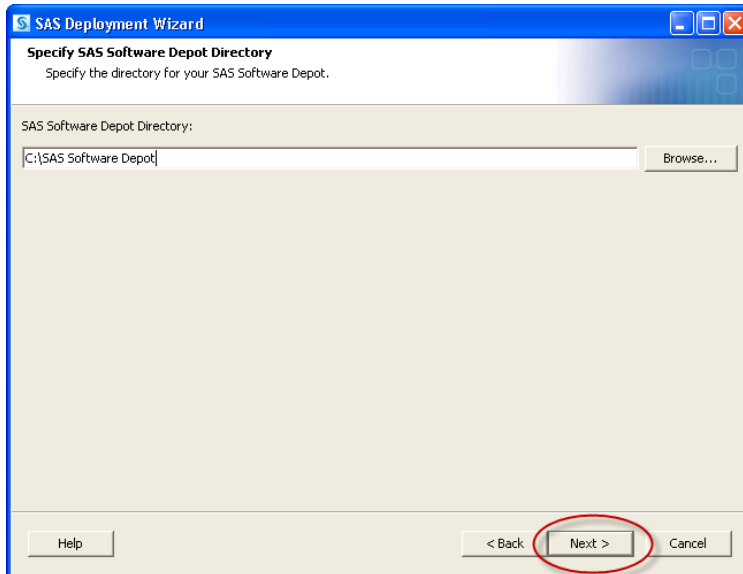
☞ Make sure that **Include complete order contents** is selected.



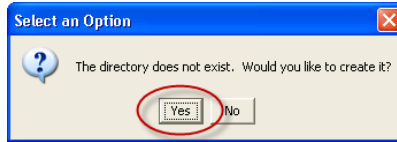
☞ Click **Next**.

☞ Specify where the software depot is to be installed.

By default, the software depot is installed to the C:\SAS Software Depot directory. If this directory does not exist, it is created for you. You should accept the default location unless there is a pressing need to place the software elsewhere.

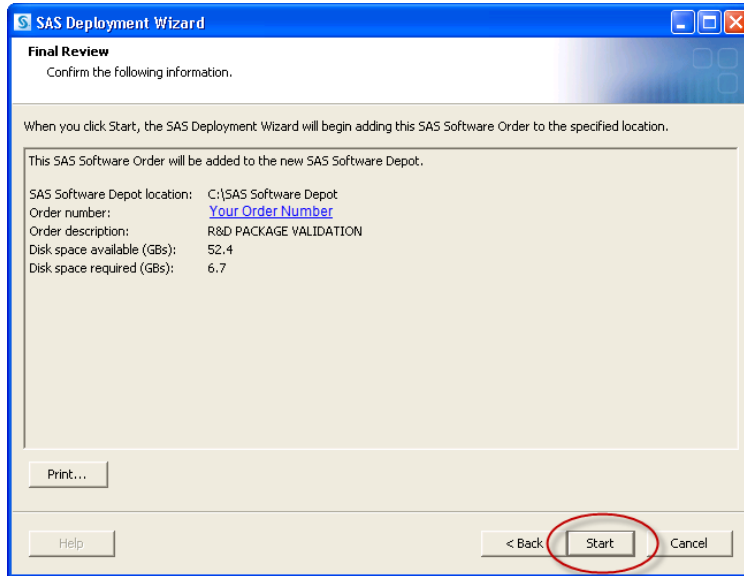


☞ Click **Next**.



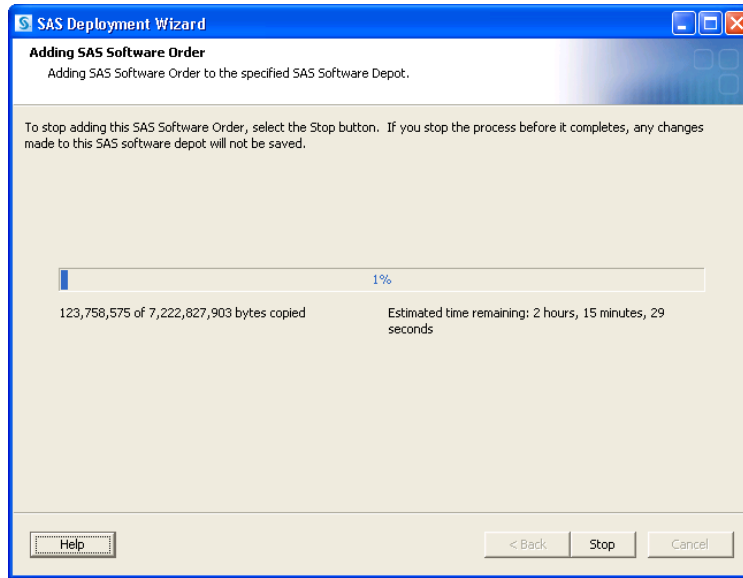
☞ Click **Yes**.

☞ Review the install information.



☞ Click **Back** if you need to make any changes. Otherwise, click **Start**.

The install process begins. You must wait for this process to complete.

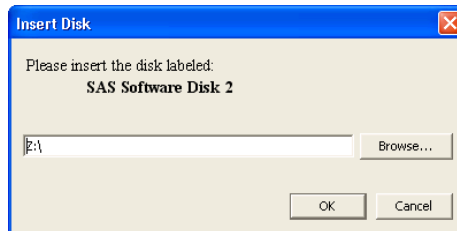


---

**Note:** This process can take an extended time.

---

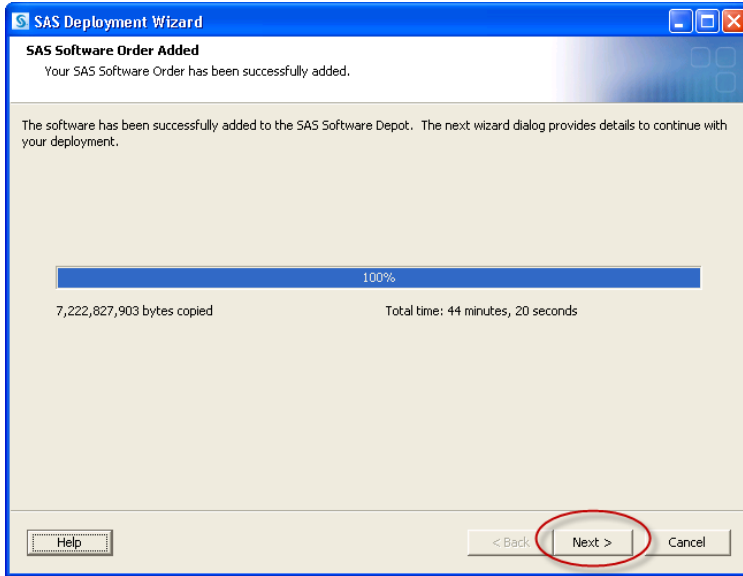
Approximately mid-way through the installation, you will be prompted to change disks.



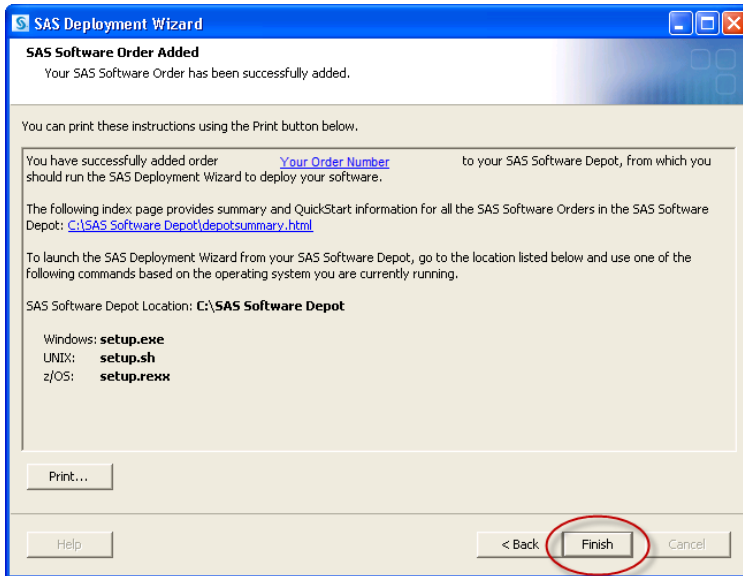
☞ Remove **SAS Software Disk 1** and insert the disk labeled **SAS Software Disk 2**.

☞ Click **OK** to continue the installation.

When the download process is complete, the **Next** button is surfaced.



☞ Click **Next**.



☞ Click **Finish**.

☞ Proceed to [“Step 2: Install JMP Genomics Software,” p. 11.](#)

---

## Appendix 2: Uninstall prior versions of JMP Genomics before you install JMP Genomics 5.1.

If you are upgrading a prior version of JMP Genomics to JMP Genomics 5.1 you must uninstall the prior version before installing the new software.

☞ Launch the Uninstall Utility

- In Windows XP, click **Start > Control Panel > Add or Remove Programs**.
- In Windows 7, click **Start > Control Panel > Uninstall a program**.

☞ Use the utility to uninstall JMP Genomics 5.0.

☞ Use the utility to uninstall SAS 9.2.

☞ Delete the contents of your user-specific ProcessLibrary and Starter folders. Do not delete the folders themselves.

- In Windows XP, these folders are typically located in the C:\Documents and Settings\userID\Local Settings\Application Data\SAS\JMP\9\JMPG directory.
- In Windows 7, these folders are typically located in the C:\Users\userID\AppData\Local\SAS\JMP\9\JMPG directory.

☞ Install your new software.

---

## Appendix 3: Increasing the Memory Allocation for SAS Processes Run under JMP Genomics

While native JMP stores all data in memory, the SAS processes run by JMP Genomics use a combination of both memory and disk. The latter enables the system to handle very large data sets, but run times can sometimes be slow due to read and write speed to disk. If your computer has 4 gigabytes of memory or more and your data sets are 1 gigabyte or less, you can improve the performance of SAS runs by allocating more memory to SAS. Use the following steps:

☞ Close all JMP and SAS sessions.

☞ Navigate into the C:\Program Files\SASHome\SASFoundation\9.3\nls\en directory (or the directory in which SAS is installed).

☞ Create a backup copy of the SASV9.CFG file and save the back up to another directory.

---

**Note:** It is very important that you create this backup copy before making any modifications to the SASV9.CFG file. Changes to the SASV9.CFG file might prevent SAS from functioning properly. Having this backup will enable you to revert to the original configuration.

---

☞ Open the SASV9.CFG file using a text editor such as Notepad or TextPad.

☞ Scroll down through the file to the -MEMSIZE 2G line of code.

☞ Delete the -MEMSIZE 2G line of code and replace it with the following 4 lines of code:

```
-MEMLIB
-MEMSIZE 0
-MEMMAXSZ *G
-SORTSIZE *G
```

where \* indicates the number of gigabits of RAM to allocate to SAS. A recommended amount for both -MEMMAXSZ and -SORTSIZE is  $\frac{3}{4}$  of your total RAM. For example, if you have 8G of RAM, specify 6G for both of these options.

---

**Caution:** Do not exceed your machine's available RAM. You must leave sufficient memory available for other processes. If a SAS process does exceed the memory limits you specify, you will see an error message in the SAS log such as "Out of Memory" or "Unable to Allocate Sufficient Resources". In such cases, you should remove the options above and let SAS use disk space to store large working data sets.

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## Appendix 4: Installing JMP Genomics on a Federal Desktop Core Configuration (FDCC) Configured Machine

Before installing JMP Genomics 5.1 on a Federal Desktop Core Configuration (FDCC) configured 32-bit machine running Windows XP, you should verify that the Microsoft.Net Framework 4 Client Profile software has been installed.

To verify that your machine has the Microsoft.NET Framework 4 Client Profile installed, complete the following steps:

- ☞ Select **Start > Settings > Control Panel**.
- ☞ Open the Add or Remove Programs utility.
- ☞ Scroll down the program list and verify that the Microsoft.NET Framework 4 Client Profile is listed.

If you do not see Microsoft.NET Framework 4 Client Profile listed, you must download install from the Microsoft Download Center (<http://www.microsoft.com/downloads/en/default.aspx>) it before installing JMP Genomics.

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## Appendix 5: Installing JMP Genomics on a Computer Configured for Use with a Language Other than English

JMP Genomics is not supported for use in any language other than English. However, it might be possible to access some of JMP Genomics' functions on a non-English-configured machine.

- ☞ Download and install the SAS Software Depot as described previously.
- ☞ Install SAS as described previously.
- ☞ Navigate to C:\Program Files\SAS\SASFoundation\9.3.

---

**Note:** This assumes you have installed SAS in the default location.

---

☞ Open the SASV9.CFG file using a text editor such as Notepad or TextPad. This file should contain only the following line of code:

```
<-CONFIG "C:\Program Files\SASHome\SASFoundation\9.3\nls\**\SASV9.CFG">
```

where \*\* is the two-letter language abbreviation.

---

**Note:** The abbreviation **en** is used when the default language is English. The abbreviations for all other languages can be found at <http://support.sas.com/kb/33/127.html>.

---

☞ Change the language abbreviation to the desired language.

☞ Save the change and close the file.

---

**Note:** Some JMP Genomics input engines offer an option (on the Options tab) to verify that sufficient disk space is available for the generated SAS data sets. This Check Available Disk Space option does not work on non-English-configured machines and must be disabled before running the input engine.

---

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## Appendix 6: Installing JMP Genomics 32-bit on a 64-bit Machine

There are two versions of JMP Genomics 5.1: one for 64-bit computers and one for 32-bit computers. You **must** load the proper configuration on your machine. JMP Genomics 64-bit does not work properly on 32-bit machines and is not supported. Under certain conditions, JMP Genomics 32-bit might work on a 64-bit machine. If you must install JMP Genomics 32-bit on a 64-bit machine, you can try the following work-around:

☞ Navigate into the C:\Program Files\SASHome\JMP\9\ directory.

☞ Copy both the Genomics and the LifeSciences folders.

☞ Navigate into the C:\Program Files\SASHome\x86\JMP\9 directory and paste the Genomics and the LifeSciences folders in this directory. (Create this directory if it does not exist.)

☞ Double-click on **jmp.exe** from C:\Program Files\SASHome\x86\JMP\9 directory to launch JMP Genomics.

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**Caution:** This configuration is not recommended nor is it supported.

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