SigFit

Installation Manual

Version 2012R1f



July 31, 2013

Sigmadyne, Inc. 803 West Avenue Rochester, NY 14611 www.sigmadyne.com **Warning:** Use of this program is subject to the terms of the Demo Software Agreement or the Software Agreement agreed upon in writing with the User's authorized representative(s). Installation of this software indicates acceptance of the Software Agreement.

Technical Support

IMPORTANT: When contacting technical support please provide the following:

- 1. Your .sig file defining your SigFit analysis.
- 2. All files referenced by the .sig file. This includes FEA model files, FEA results files, OLOAD files, VECTOR files, etc.
- 3. The nature of the problem and the error you are seeing, if any.

Licensing Issues

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For more information about Sigmadyne visit our website at: www.sigmadyne.com.

The background theory used in SigFit is discussed in the following book & short courses:

Doyle, K., Genberg, V., Michels, G., Integrated Optomechanical Analysis, Second Edition, SPIE Press, November, 2012.

Integrated Optomechanical Analysis short course available from Sigmadyne, Inc.

SigFit short course available from Sigmadyne, Inc.

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1 Installation and Uninstallation

1.1 Upgrading the SigFit Applications

To upgrade SigFit from any SigFit version, simply follow the installation instructions in Section 1.3. The installer will automatically detect and optionally uninstall prior installations of SigFit.

1.2 Installation Requirements

Installation of SigFit requires Administrator permissions.

SigFit requires installation of Microsoft Visual C++ 2005 Redistributable SP1 with the latest security updates and Microsoft Visual C++ 2008 Redistributable SP1 with the latest security updates. The current installer will install these redistributables automatically.

SigFit has been tested on the following platforms:

Microsoft Windows XP on Intel x86_32 Microsoft Windows XP on Intel x86_64 Microsoft Windows Vista on Intel x86_32 Microsoft Windows Vista on Intel x86_64 Microsoft Windows 7 on Intel x86_32 Microsoft Windows 7 on Intel x86_64

SigFit help files are accessible from VSigFit or by the shortcuts in the Start menu require Adobe Reader.

1.3 Installation of the SigFit Application

WARNING: Installation of this software indicates your acceptance of the license agreement supplied with the software.

The following steps will install SigFit and Visual SigFit as well as setting the appropriate environment variables. These steps must be performed on any machine on which the SigFit applications will be executed. Download SigFit2012R1f_x86_32.exe or SigFit2012R1f_x86_64.exe from the Sigmadyne website using the username and password provided by Sigmadyne. To begin, double-click SigFit2012R1f_x86_32.exe or SigFit2012R1f_x86_64.exe and follow the instructions.

IMPORTANT: During the install process, some popup dialogs requiring a response may become hidden behind the main dialog window. If the install appears to be hung, simply move the displayed window(s) around to see if a dialog is present requiring a response. It is very common for the final dialog of the uninstallation of prior security device drivers to be displayed behind Uninstall – SigFit dialog.

A check for an existing installation is made. If a prior version is found, the user may request the installer to uninstall it. If a prior version is left uninstalled, then the user may need to adjust the contents of the PATH environment variable so that the executables of the version being installed will be found instead of those of an earlier version.

Select	×	Confirm	×
Uninstall version 2004R1p4 of SigFit? - © Yes © No		CONFIRM Are you sure you want to uninstall the	program SigFit?
	Cancel		'es <u>N</u> o
nstall This utility will delete dongle speci	Fic files and registry entries!	Install Dongle Uninstall has been comp	× l
ОК		ОК	

This dialog commonly gets displayed behind the one below causing the install to appear to be hung. Simply move the larger UnInstall-SigFit dialog if the install appears to be hung.

		~
v	Shared program files	
	Standard program files	
	Folder items	
	Program folders	
	Program directories	
	Program registry entries	

Once any detected prior installations have been removed, a Welcome banner will appear. Close any programs you may have running and pick Next. Read the License Agreement and indicate your acceptance by picking the radio button next to "YES" and pick Next.

Welcome	×	License Agreement	×
	Welcome to SigFit Setup program. This program will install SigFit on your computer. It is strongly recommended that you exit Windows programs before	License Agreement	
	running this Setup program. Click Cancel to quit Setup and then close any program you have	Please read the following license agreement carefully. Press the PAGE DOWN key to see the rest of the agreement.	
	running. Click Next to continue with this Setup program.	SIGFIT SOFTWARE LICENSE TERMS AND CONDITIONS	
	WARNING: This program is protected by copyright law and international treaties. Unauthorized reproduction or distribution of this program, or any portion of it, may result in severe civil and criminal penalties, and will be prosecuted to the maximum extent possible under law.	The use of SigFit is subject to certain restrictions, as set forth in this license agreement between Sigmadyne, Inc. (Sigmadyne) and Customer. Customer's use of SigFit indicates acceptance of this license agreement. I. DEFINITIONS. (A) "SigFit" means the executable code(s) described in Section B of the Software License 🔽	
		[VES - I Accept the terms of the License Agreement!] [C] NO - I DO NOT Accept the terms of the License Agreement! [O] Setup	
www.sigmadyne.com	< Back Next > Cancel	www.sigmadvne.com < <u>Back</u> Next > Cancel	

The Select Components dialogue as shown below can be used to choose which files to install. Select the files groups you wish to install and pick Next. The default installation is to install all files and is recommended.

Select Components			×
Select Components			
Select the components you want to in want to install.	nstall, clear the con	nponents you do no	ot
Components:			
SigFit Executables		0 KB	
SigFit Documentation		0 KB	
MSC.PATRAN Support Files		0 KB	
ANSYS Support Files		0 KB	I
NASTRAN Examples		0 KB	-
Description:			
These are the SigFit executable files	i.		-
			-1
l.			
— QSetup			
www.sigmadyne.com	< Back	Next >	Cancel

Use the default installation directory or modify it and pick Next.

Choose Destination Location		0
Setup will install SigFit in the follow	ing directory,	
To install to this directory, click Nex	æ.	
To install to a different directory, c	lick Browse and select anot	her directory.
Destination Directory		Browse
Destination Directory	-it\2008R1	Browse
Destination Directory C:\Program Files\Sigmadyne\Sigf Space required on drive:	Tit\2008R1	Browse
Destination Directory C:\Program Files\Sigmadyne\Sigf Space required on drive: Space available on drive:	Tit\2008R1 0.015 MB 8612.9 MB	Browse
Destination Directory C:\Program Files\Sigmadyne\Sigf Space required on drive: Space available on drive: ietup	Tit/2008R1 0.015 MB 8612.9 MB	Browse

Choose if you would like .sig files associated with SigFit.

et File Association			×
Set File Association			
Setup will associate some file types v Select the file types you want to ass to associate.	with SigFit . sociate, clear the file	e types you do not	t want
.sig SigFit Input File			
- OSetun			
www.sigmadyne.com	< Back	Next >	Cancel

Use the default program folder name or modify it and pick Next.

Program Shortcuts			
Set Program Shortcuts			<u>P</u>
Setup will add Shortcut to the	Start/Program menu.		
Start/Program Menu			
SigFitv2008R1			
Setup			
www.sigmadyne.com	< Back	Next >	Capcel

Verify the installation settings and pick Next.

Confirm Setup Setting s			×
Confirm Setup Settings			
Setup has enough information If you want to review or chang	to start copying the prog ge any settings, click Bac	gram files. ∶k,	
Target Directory: C:\Program Files\Sigmadyne	\SigFit\2008R1		
Start/Program Menu Entry: SigFitv2008R1			
Click NE	XT to begin copying fi	les	t
—QSetup —			· · · · · · · · · · · · · · · · · · ·
www.sigmadyne.com	< Back	Next >	Cancel

The selected files will copy to the installation directory.

Copying Files		Ċ
File:		
Sigfit-Demo-Agreement.p	df	
Folder:		
C:\Program Files\Sigmady	ne\SigFit\2008R1	

Once the files are copied a choice will be given to select the type of licensing system SigFit should expect to use. The license type chosen here will be stored in the system environment variable SIGFIT_LICENSE_TYPE as either FLEXNET or DONGLE.

Select the license	e manager type,	
FlexNet		
🔿 Dongle Client		
Dongle Server	r	
Use Existing		

If the FLEXnet licensing system is chosen then the location of the FLEXnet license will be required. This location is given in the form of *port_number@servername*. The port number may be chosen by the user but must be consistent with that used in the FLEXnet license file. Be sure that the port number chosen does not conflict with any other ports being used on your system. The license location specified here will be stored in the system environment variable SIGMADYN_LICENSE_FILE.



When the copy is complete pick Finish.



Installation of the Microsoft Visual C++ Redistributables will begin. Pick Yes to install the Microsoft Visual C++ 2005 Redistributable.



Pick Next to install the Microsoft Visual C++ 2008 Redistributable.

Microsoft Visual C++ 2008 Redistributable Setup		2
Welcome to Microsoft Visual C++ 2008 Redistributable Setup		
This wizard will guide you through the installation process.		
	Next > C	ancel

If the Microsoft Visual C++ 2008 Redistributable is not already installed then the following window will appear. Check the box and pick Install. The redistributable package will install.

Be sure to carefully read and unc license terms. You must accept th	lerstand all the rights and restrictic ne license terms before you can ins	ns described in the tall the software.
MICROSOFT SOFTWARE LICENS MICROSOFT VISUAL C++ 2008 / PACK 1 These license terms are an agree where you live, one of its affiliat coftware armed above, which is	E TERMS RUNTIME LIBRARIES (X86, IA64 A) ement between Microsoft Corporat es) and you. Please read them. T cludes the media on which you rec	ND X64), SERVICE
terms also apply to any Microsoft	ŧ .	-
e updates,		Print
Press the Page Down key to see	t more text.	Print



Pick Finish to complete the installation.



At this point the installation of the SigFit application is complete and the installation will close.

1.3.1 Changing the License Type of an Existing SigFit Client Installation

If you would like to change the license type of an existing SigFit client installation make the changes as shown in the table below.

To switch to	follow these steps.
a dongle licensing system	1. Change the system environment variable SIGFIT_LICENSE_TYPE to
	DONGLE.
	2. Install the dongle client or server drivers using DongleSecurityInstall.exe.
a FLEXnet licensing system	1. Change the system environment variable SIGFIT_LICENSE_TYPE to
	FLEXNET.
	2. Create the system environment variable SIGMADYN_LICENSE_FILE and set
	it to the location of the FLEXnet license in the form of
	port_number@servername.

1.3.2 Installation of the MSC PATRAN Plotting Template Files

The MSC PATRAN template files for making plots of SigFit results within MSC PATRAN can be found in the MSCPatran_Support folder of the SigFit install directory. You may copy these files to a convenient location in the res_templates folder in the MSC PATRAN install directory. It is suggested that any customized templates be placed in a subfolder such as *{MSC PATRAN install}*\res_templates\Custom. This will allow easier browsing of the SigFit template files rather than browsing amidst the more than 60 templates in the res_templates folder level.

1.3.3 Installation of the Macro File for ANSYS Mechanical APDL

In ANSYS Mechanical APDL the user may choose to use either the macro file *sigout.mac* or the library file *sigfit_library.lib*. Both forms of the macro file can be found in the ANSYS_Support folder in the SigFit installation directory. To install the macro users should perform one and ONLY one of the following steps to make the macro file visible to ANSYS Mechanical APDL.

- 1. Place the macro file *sigout.mac* in a directory location automatically visible to ANSYS Mechanical APDL. This may be the APDL macro directory (C:\Program Files\ANSYS Inc\v110\ANSYS\APDL in version 11.0, C:\Program Files\ANSYS Inc\v121\ANSYS\APDL in version 12.1, etc.), the user home directory, or, an alternate location which will be searched by ANSYS. Consult the ANSYS documentation for additional information relating to the placment of macro files so that they are visible to ANSYS Mechanical APDL.
- 2. Place the macro library file, *sigfit_library.lib*, in a suitable location and use the *ULIB command to load the library file. A *ULIB command to load the macro library may be placed in the ANSYS start-up file (*start110.ans* for version 11.0). An example of this startup file is located in the ANSYS APDL directory (C:\Program Files\ANSYS Inc\v110\ANSYS\APDL in version 11.0, C:\Program Files\ANSYS Inc\v121\ANSYS\APDL in version 12.1, etc.). This command would look as follows:

*ULIB,{*path*}\sigfit_library,lib

where, *{path}* is the path to the *sigfit_library.lib* file.

1.3.4 Installation of the Macro File for ANSYS Workbench

In ANSYS Workbench the user must use the library file *sigfit_library.lib*. It should be placed in the ANSYS APDL directory (C:\Program Files\ANSYS Inc\v110\ANSYS\APDL in version 11.0, C:\Program Files\ANSYS Inc\v121\ANSYS\APDL in version 12.1, etc.).

1.3.5 Installation of the ABAQUS ODB API Library

The SigFit interface to ABAQUS requires use of the ODB API library supplied by SIMULIA in addition to a call to ABAQUS itself. Therefore, users must have ODB API library and ABAQUS installed on the machine on which SigFit is to run. Users must download the ODB API library archive from SIMULIA's website at http://ftp.simulia.com/CDimages/ODB_API. At this site select the version for which you would like to download. Then select either the *win86_32* or *win86_64* archive depending on your platform. After downloading the archive, extract the *lib* folder and place it in the ABAQUS installation path for the corresponding ABAQUS version. Generally, this is C:\SIMULIA\Abaqus\/version}. The interface file to SigFit will automatically be installed when the SigFit application is installed.

1.3.6 Installation of the CODEV User Defined Gradient Index Lens DLL

In order to use the results files generated by SigFit with the thermo-optic user-defined gradient index lens feature, a DLL file supplied with SigFit must be placed in the CODEV UMR directory generally located at *{CODEV installation folder/*\umr. It is important for the user to note that only versions of CODEV 10.4 and later are suitable for use with this feature. The DLL supplied with SigFit can be found in the CODEV_Support folder in the SigFit installation path.

1.4 Installation of Sigmadyne FLEXnet Licensing

Sigmadyne FLEXnet licensing is installed on the license server only by double-clicking

SigmadyneFNPLicensingv11.4.1_x86_32.exe or SigmadyneFNPLicensingv11.4.1_x86_64.exe. If you have a license certificate file for a specific license server machine, then be sure to install the license server software on that machine. No licensing software is required on client SigFit installations for Sigmadyne FLEXnet licensing.

Follow the instructions of the installation dialogs. You will be given a choice to install a license file.

Yes	G Yes C No	20 YOFFWADE DUDSFAILESS	iFit license tile n	inw?
	C No.	• Yes		
No		° No		

If you answer yes, then you will be prompted to pick a license file which will be installed and used to start the FLEXnet service named Sigmadyne License Manager.

LOOK IN:	Sentire Network	🔄 🔇 🗊 🗁 🛄 -	
ty Recent ocuments	Microsoft Terminal Services Microsoft Windows Network Web Client Network		
Desktop			
Computer			

This will complete installation of the FLEXnet licensing software. To further configure the FLEXnet license manager use the Imtools utility found in Start/SigmadyneFNPLicensingv11.4.1.

1.4.1 Firewalls and Sigmadyne FLEXnet Licensing

Two rules may need to be added to the firewall of the license server machine if a firewall is used on the license server machine. The instructions below apply to the Windows Firewall in Windows 7. Test execution of SigFit before adding these rules to determine if your firewall requires them. Add rules similar to those described below for other firewall software. Open the Control Panel from the Start menu. If the icons are displayed by Category then pick System and Security and then pick Windows Firewall. If all icons are shown then simply pick Windows Firewall. Pick Advanced Settings as shown below.



Pick Inbound Rules and then under Actions pick New Rule...

	Actions	
	Inbound Rules	e e e e e e e e e e e e e e e e e e e
	🚾 New Jule	
	Tilter by Profile	×
	Filter by State	E.
Windows Firewall with Advanced S	Y Filter by Group	E.
	View	Þ
Connection Security Bules	Refresh	
E Monitoring	Export List	
	P Help	

Select Program for the Rule Type as shown below. Pick Next.

🕷 New Inbound Rule Wiz	rard	×
Rule Type Select the type of firewall rule	to create.	
Steps:	What type of a law word you like to conster? ••• Organa Rule to consta consections for a program. ••• Pola Rule to consta consections for a DTP or UDP pot. ••• Demonstrame State constate consections for a Whotows experience. ••• Demonstrame Outcome Outcome Outcome Outcome Outcome Outcome Outcome Outcome Outcome	

For the program path browse to the location of lmgrd.exe located in the platform dependent location specified in the table below.

Platform	Path to Imgrd.exe and SIGMADYN.exe
32 Bit Windows	C:\Program Files\Sigmadyne\SigmadyneFNLicensing
64 Bit Windows	C:\Program Files (x86)\Sigmadyne\SigmadyneFNLicensing

Pick Next.

		-
Program		
Specify the full program pat	h and executable name of the program that this rule matches.	
Steps:		
Rule Type	Does this rule apply to all programs or a specific program?	
Program		
Action	C All programs	
Profile	Hure appres to all connections on the computer that match other rule properties.	
Name	• This program path:	
	%ProgramFiles% (x85)\Sigmadyne\SigmadyneFNLicensing\Imgrd.exe Browse	
	Example: -: \texts/brogram.nee %Program.Files.\terveer/broweer.exe	
	Laam mon about accoding programs Ro	
	< Back Next > Cancel	

For the Action specify to Allow the connection. Pick Next.

Action Specify the action to be taken when Steps:	n a connection matches the conditions specified in the rule. What action should be taken when a connection matches the specified conditions? Alore the connection This includes connections that are protected with iPace as well as those are not. Alore the connection if it is accure This includes yourcendows that have been authenticated by using Fleec. Connections
Steps: Picle Type Program Action Profile Name	What action should be taken when a connection matches the specified conditions?
Rule Type Program Action Profile Name	What action should be taken when a connection matches the specified condition?
Profile Name	This includes connections that are protected with IPsec as well as those are not. Allow the connection if it is secure This includes only connections that have been authenticated by using IPsec. Connections
	wild be scored using the settings in Piec properties and rules in the Correction Security Control Control Black the connection

For the Profile it is probably not necessary for your network to allow Public access so that can be unchecked. Pick Next.

Profile Sec(r the profiles for which this use apples: Sec(r the profiles for which this use apples: Program Program Profile Program Profile Program Profiles when a computer is connected to a public retrievolt location. Profile Papeles when a computer is connected to a public retrievolt location. Profile Papeles when a computer is connected to a public retrievolt location.		
Step: When does the rule apply? Indam Product Action Image: Product Step Step Step Step Step Step Step Ste	rofile early the profiles for which this	rule applies.
Ada Type Horizen and weight Adam Adam Pade Pade	aps:	Without closes this is the second of
Action For Domain Poste Poste	Rule Type Program	when more the shert.
Pode Prote P	Action	☑ Domain
Idence Private Applies when a computer is connected to a private network location. Phile Applies when a computer is connected to a public relevonk location.	Profile	Applies when a computer is connected to its corporate domain.
	Name	Pinvate Applies when a computer is connected to a private network location. Public Applies when a computer is connected to a public network location.
Learn more about on/fee		Learn more about profiles

Specify a rule name of Sigmadyne lmgrd (TCP) and pick Finish.

Specify the name and description of this rule. Step: • Rule Typo • Prodys • Roder • Roder	
Step: Polyam Adon Polis Rane Deciption (pt/ond):	
Ruf Type I Program Adan Nome Spredyne legel (TCP) Description (splanard):	
fogan Aton Aton Mane Sonadyre logd (10%) Denotption (pdirold)	
Piction Name: Pictus Spreadyne logd (TCP) Description (sptemat):	
Profile Sense: Nerre Source Introd (CP) Description (sptional):	
Name Description (sptond):	_
Description (sptional):	
	2
< Back Finish	Cancel

After the rule is created double-click the rule shown in the Inbound Rule list. In the Protocols and Ports tab select TCP for the Protocol type. Specify the Local port to be the Specific Port of 27001 or whatever port number is used in the license file. Pick OK.

Gene	ols and Ports	ograms and Sen Scope	Advanced	Computer	ers
Protoco	ls and ports				
at .	Protocol type:	TCP		•	
	Protocol number:		6		
	Local port:	Specific	Ports	•	
		27001			0
		Example:	80, 443, 5000-5	010	R.
	Remote port:	All Ports		-	
	Internet Control Me (ICMP) settings:	essage Protocol	Custo	mize	
am mo	re about protocol an	<u>d ports</u>			

A second inbound rule should be added in a similar fashion to allow SIGMADYN.exe to pass TCP traffic on any port number. It is important that any port be allowed for SIGMADYNE.exe as the port number may change if the license manager service is restarted and is not the port number specified in the license file.

Gene	ral	Progr	ams and Servic	:03	Computers
Protoco	ils and Ports		Scope	Advanced	User
Protoco	is and ports				
1	Protocol type	B:	TCP		•
	Protocol nur	nber:	6	-	
	Local port:		All Ports		•
			Example: 8	0, 443, <mark>5000-5</mark> 0	10
	Remote port		Al Ports		•
			Example: 8	0, 443, 5000-50	10
	Internet Con (ICMP) settir	trol Messi Igs:	age Protocol	Gustor	πize
sam mor	re about proto	col and p	orta		

1.5 Installation of Dongle Security Drivers

WARNING: The dongle licensing system does not run on x86_64 platforms. Only FLEXnet licensing runs on x86_64 platforms.

Installation of the dongle security device drivers is performed by double-clicking DongleSecurityInstall.exe file.

Parallel Server

To install the drivers for a dongle license server with a parallel port dongle use the settings shown below and pick OK.

urity Key Installation	
Dongle Type	
Select one or more Dongle Types	
USB Dongle	
Parallel Port Dongle	
Installation Type	
C Standalone	?
C Client	
G Server	
🗖 Uninstall	ОК
Command Line Options	Close

USB Server

WARNING: USB is not supported on Windows NT and Windows 95. For these systems you must use a parallel port server or client install.

To install the drivers for a dongle license server with a USB dongle use the settings shown below and pick OK.

×
2
ПК
Close

At this time you may plug in your USB device. You will see dialogs indicating that your operating system recognizes the device and its installed driver. However, Windows 2000 and Windows XP respond differently.

Windows 2000

The dialogues indicating that the device has been found may open and close so fast that you may not see what they all say. You should not have to click on any of the windows. You may verify that the device is installed by opening the System icon in the Control Panel and selecting the Hardware tab. Then select Device Manager. USB Dongle – Software Protection Device should be listed under USB.



Windows XP

When you plug in the USB device a few messages appear on the lower task bar and then the following dialogue will appear. Be sure "Install the software automatically" is selected and pick Next.



The following dialogue will appear briefly

ound New Hardware Wizard	
Please wait while the wizard searches	
USB Dongle - Software Protection Device	
Q	
	200 - 20
K Back Next	Cancel

... and will be followed by the following dialogue. Pick Finish.



Client

A client install is performed on any machine which obtains the license to run SigFit by checking for the security device located on a server machine via a local area network. The driver's TCP/IP protocol allows flexible sharing of the license. However, your license agreement defines the limit of the area over which your license may be shared. If you are unsure of the contents of this agreement for your site license or who in your organization has a copy, please contact Sigmadyne.

To install the drivers for a client SigFit installation use the settings shown below and pick OK. Do not use the Set Server feature.

ecurity Key Installation	
Dongle Type	
Select one or more Dongle Types	
📕 USB Dongle	
Parallel Port Dongle	
- Installation Type C Standalone	?]
Client	
Server Selection for Client Set Server (Optional) Currently selected server: svr-sigm	adyne
L Uninstall	0K.
Command Line Options	Close

Installation of the security device drivers will commence and will take a few seconds.

Dongle Setup X
All Dongle files and registry entries have been successfully installed
ОК

After the above dialog is dismissed open in a text editor such as notepad the file in C:\WINDOWS\system32 called TCPIPSvr.dat. Enter the IP address of the dongle license server and save the file.

IMPORTANT: If a firewall is present between the execution of SigFit and the security device, then the applications DongleServers.exe and KLServer.exe must be added to the approved programs list on port 4242. Be sure to consider software

firewalls resident on either the client or server machines in addition to other firewalls along the network path between the machines.

Access to the server license may be tested with a utility which can be run from any command window or from the Run feature in the Start menu. Simply type *DongleServers* and pick OK. The following utility will open allowing the user to pick *Display Dongle Servers*. This will show a list of the license servers found by TCP/IP. Note that server machines using the old NetBIOS protocols (pre-v2004R1.4) will not show up here.

ongle Servers over TCP/IP			
Display Dongle Servers	Exit		

1.6 Uninstallation of the SigFit Application

SigFit may be uninstalled by the remove program feature in the Control Panel.

- 1. Double-click the Control Panel in My Computer.
- 2. Double-click the Add/Remove Programs icon.
- 3. Pick SigFit from the list and then pick Remove.
- 4. Pick Close after the uninstallation is complete.