Installation of ADS SiMKit startup script and designkit on Windows for SiMKit version 5.9

Introduction

This document explains how to prepare Windows environment for ADS simulations with SiMKit. This includes the creation of a ADS SiMKit startup script in such a way that simulations for ADS are enabled with SiMKit. After this, ADS can be started through the ADS SiMKit startup script and the installation of the SiMKit designkit can be done.

In this document 'simdir' refers to the location of installation of SiMKit (for example 'simdir'=C:\Keysight).

The ADS 2012, 2014, 2015, 2016, 2017 and 2019 versions all use the version 4 of the MINT interface. ADS 2019.1 and higher use version 5 of the MINT interface. The method used to connect SiMKit to ADS is the same for all ADS versions.

ADS 2012 and higher

Extract the SiMKit compressed file

Copy the zip file 'simkit_5.9_designkit.zip' to a desired location ('simdir'):



Extract the 'simkit_5.9_designkit.zip' file at this location: this extraction will create 'simdir'\simkit\5.9.

Go into the new directory 'simdir'\simkit\5.9', which results in the following view:



Create the startup scripts

Now go to the directory 'simdir'\simkit\5.9\adsdesignkit\script. The Visual Basic script 'simkit_win_setup' located there allows to create 2 startup scripts which will be later used to start ADS 2012 and higher:

Computer	AWS_System (C:) → Agilent → simkit → → adsdesignkit → scripts → 4/2	Search sci	ripts 🔎
Organize 🔻 Include in I	ibrary 🔻 Share with 💌 Burn New folder	•	
Libraries Documents Music Pictures Videos	Name Image: Similar Setup		
1툎 Computer 蘲 AWS_System (C:) ᢏ			

Double-click on the icon of 'simkit_win_setup'.

The 1st directory that you should specify is the root of the ADS version. In order to select it, navigate through the system and select the appropriate directory:

Bro	owse For Folder	×
S	Select the ADS root folder	
Γ	📜 Computer	_
	🕀 🛃 Floppy Disk Drive (A:)	
	🖃 🚢 SYSTEM (C:)	
	🖃 🌗 Agilent	
	🕀 퉲 AD52011_10	
	🕀 🌗 ADS2012_08	
	🛨 鷆 simkit	
	🛨 鷆 simkit41	
	🔒 Wrapper	_
L	▲	
	Make New Folder OK	Cancel

When the root of the ADS installation is selected, please click on OK to validate.

The 2nd directory that you should specify is the root of the SiMKit ADS design kit corresponding to the ADS version. In order to select it, navigate to 'simdir'\simkit\5.9\adsdesignkit:

Browse For Folder	X
Select the ADS SiMKit folder	
🖂 🍌 simkit	•
E 🎍	
🖃 퉲 adsdesignkit	_
🖂 🌽 mint_4	
🕀 🔐 bin	
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Make New Folder OK Cancel	

Open the directory 2012, 2014, 2015, 2016, 2017 or 2019, select the 'bin' directory and click on 'OK' to validate.

The 3rd directory that you should specify is the directory where you want the start tools to be created in the first place. This directory should be writable for the user, so you can for example select the Desktop (e.g: C:\Users\'username'\Desktop):

Browse For Folder	
Select a folder for the Start tool	
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A AWS System (C:)	
▷ 🍌 Agilent	
Jusers	
🛚 🔐 Administrator	
- 🛃 nlv12117	
🔓 Contacts	
▲ Desktop	•
Make New Folder	OK Cancel

When this is selected, click 'OK' to validate. Later on, when the start scripts are created in this 3rd directory, you will have the possibility to move or to copy them to the Start Menu, or to any other places that you find handy to use (see **'How to move the start scripts to the start menu'** right after this paragraph).

The 4th and last directory that you should specify is the default startup directory for ADS. You can select here a directory that will allow you to access easily your design projects.

Select the default startup folder	
📜 Computer	
>] Agilent	
🖻 퉬 Agilent1	
> 🌽 boot	
Data Designs Desktop	
LaptopMigration	
\mu Links	
D 퉲 NXP	
Perso	
Programs	
D 🔐 Reflection	
Make New Folder	OK Cancel

When this is selected, click 'OK' to validate.

How to move the start scripts to the start menu

At the location that you selected for the 3rd directory (e.g: your desktop), 2 start scripts were created: the 32 bits (SiMKitADS32) and the 64 bits (SiMKitADS64) versions of the start script for ADS with SiMKit.

You can rename these 2 scripts as you wish, for example:

- 'ADS 2009 32bits with SiMKit 5.9'
- 'ADS 2009 64bits with SiMKit 5.9'.

When names are changed, you need to open the Start menu for ADS. The start menu can be located by clicking on 'Start' and then on 'All Programs':

All Programs	 Back See more results
VLC media player	Application Verifier (x64) Citrix Debugging Tools for Windows (x64)
Command Prompt	Advanced Design System 2009 Update 1
WordPad	Accessories Accessories
Calculator	A Windows Media Player XPS Viewer XPS Viewer
Windows SDK 7.1 Command	Windows Fax and Scan
ifanView	Software Installation
Word 2007	Mozilla Firefox
Notepad	anternet Explorer (secon) Anternet Explorer
Outlook 2007	Desktop Gadget Gallery

In the 'Search programs and files' entry, type:

shell:common start menu

and then press 'Enter': A window appears, open the directory 'Programs' and then the ADS start menu:

- D - X	
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Documents Music Pictures Videos E Computer	Documents Music Music Pictures Videos Videos Accessories Adobe Reader10
AWS_System (C:) groups (\\wbi.rxp.com\ht NLV12117 (\\rwwnlcs001.v ~ (==)	AWS_System (C:) groups (\\wbi.nxp.com\ht NLV12117 (\\nxwnlcs001.v NLV12117 (\\nxwnlcs001.v Where the state of the stat

You can copy (or move) the 2 start scripts from your Desktop (or from the 3rd directory you selected) to this ADS start menu directory:

S V Program	mDat	a + Microsoft + Windows + Start Menu + Programs + Advanced Design System 2009 Update 1 + + 47 Search Advanced 🔎
Organize 👻 🖬 Ope	en	Print Burn New folder
 ★ Favorites ■ Desktop ▶ Downloads > Recent Places ⇒ Libraries ⇒ Documents → Music ⇒ Pictures ➡ Videos ↓ Computer ▲ AWS System (C) 		ADS Tools ADS Documentation Advanced Design System 2009 Update 1 (64-bit Simulations) with SiMKit Advanced Design System 2009 Update 1 (64-bit Simulations) Advanced Design System 2009 Update 1 with SiMKit Advanced Design System 2009 Update 1 Uninstall Advanced Design System 2009 Update 1

If you want to use SiMKit with ADS, you will need to start ADS using one of the 2 scripts (the 32 or the 64 bits versions).

Of course, it is also possible to move or copy those start scripts to any other directory that you find handy to use.

Installing the SiMKit Designkit for ADS 2012 and higher

Start ADS 2012 and higher via the start scripts created on the Desktop or on the ADS start menu.

In the ADS command window, go to the menu 'DesignKit > Manage Favorite Design Kits':

M Baller	Unsteine	To Compet Workspace	Library Definition Ele	
rvame	version	In currenc workspace	Library Definition File	_
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d Zipped Design I	Gt Add Librar	y Definition File Remove from List		

Click on 'Add Library Definition File' and go to the location where you unpacked simkit: 'simdir'\simkit\5.9\adsdesignkit:

Select Library Definit	tion Fil	2				×
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★ Favorites ■ Desktop ● Downloads ● Recent Places ■ Libraries ● Documents ● Music ■ Pictures ● Videos		<pre>imint_4 i circuit i circuit i de i design_kit i doc i NXPSIMKit NXPSIMKit_tech i scripts iib.defs</pre>				
🖳 Computer 🏭 SYSTEM (C:) 👝 DATA (D:)	Ŧ					
F	ile nan	ne: lib.defs	•	Library Definition File	e(*.defs) Cancel	-

Choose 'lib.defs', and see how the Name and Version are automatically filled:

Name	Version	In Current Workspace	Library	Definition File
NXPSiMKit	NXPSiMKit=Version	N	C:\Agilent\simkit\	
Add Zipped Desig	n Kit	File		

Now, if you open a new schematic window, you'll find the NXPSiMKit palettes:

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This completes the installation of SiMKit 5.9 in ADS 2012 and higher.

Now, you can design and simulate using simkit. Please verify that the correct SiMKit is used during simulation (version 5.9):

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File Simulation/Synthesis Text Window	
Simulation / Synthesis Messages	
	?
Status / Summary	_
	_
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copyright Agilent lechnologies, 1989-2011.	
NXP SiMKit	
Model bjt500t Copyright NXP Semiconductors 2001.	
CT Sweep1[1] <simkittest_lib:test_21_bjt_500t:schematic> Vin=(0->2)</simkittest_lib:test_21_bjt_500t:schematic>	
DC Sweep1[1].DC1[1/21] <simkittest 21="" 500t:schematic="" bjt="" lib:test=""> Vin=0 Vout=</simkittest>	
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