Update the SDK project

You should click "Start">"Xilinx Design Tools">"ISE Design Suite xx.x">"EDK">"Xilinx Softwate Development".

After this a pop-up will appear.

🚳 Workspace	e Launcher
Select a w Xilinx SDK st Choose a w	rorkspace tores your projects in a folder called a workspace. rorkspace folder to use for this session.
<u>W</u> orkspace:	C:\XilinxProject\reference-TE0300\SDK\SDK_Workspace
Use this a	as the default and do not ask again OK Cancel

Select a workspace

In this pop-up you should choose the SDK_Workspace desired.



Workspace selected, SDK is loading

After this the SDK will starts.



Xilinx SDK starts

If the version of the SDK is higher than the version of the project opened you should follow the instruction and refresh the demo .c and .h files.



After refresh operation this message should appear.



End of the refresh operation

After this, even if refresh operation appears correct and no errors are reported, you should check the SDK Workspace references to TE EDK IP core drivers.

To open the SDK workspace reference repositories you should click "Xilinx Tools" > "Repositories".



Open Xilinx SDK Workspace repositories

A new pop-up windows will appear. You should remove the wrong reference clicking/selecting "B:\GIT\TE03XX-Reference-Designs\TE-EDK-IP" and clicking "Remove" button.

ype filter text	Add, remove or change the order of SDK's software repositories.	(-) → → →	
General	Local Penositorier (available to the current workspace)		
C/C++			
Help	B:\GIT\TE03XX-Reference-Designs\TE-EDK-IP	Ne <u>w</u>	
Install/Update			5
Remote Systems		<u>R</u> em ye	
Run/Debug		Un	
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Xilinx SDK		Relative	
Boot Image		Relative	
Flash Programming	Global Repositories (available across workspaces)		
Hardware specification			_
Repositories		Ne <u>w</u>	
Target Manager		Remove	
XMD Startup			5
····-		<u>U</u> p	
		Down	
	SDK Installation Repositories		
	C:\Xilinx\14.4\ISE_DS\EDK\sw\XilinxProcessorIPLib\		
	C:\Xilinx\14.4\JSE_DS\EDK\sw\ThirdParty\		

	Rescan Repositories	
۰ III • • •	Note: Local repository settings take precedence over global repository settings.	Ŧ
?	OK Cancel	

Preference pop-up, repositories selected

You should add the correct reference to TE EDK IP cores drivers.

Click the "New..." button and a pop-up "Select folder" will appear.

Ordner suchen	×				
Choose a repository directory. A repository directory typically contains the 'drivers', 'bsp' or 'sw_services' sub-directories.					
▶ 퉬 TE0300-01IBM_50Mhz	~				
TE0300-01IBM125					
▲ ↓ TE-EDK-IP					
MyProcessorIPLib					
🛛 🕒 busdefs					
b Jb drivers					
Þ 퉲 hurri					
Description of the second s	-43				
> 🍑 Test1	-				
Ordner: TE-EDK-IP					
Neuen Ordner erstellen OK Abbred	hen				

You should select the desired folder: "TE-EDK-IP" or "TE-EDK-IP\MyProcessorIPlib" should be both correct

/ It is better if you do not alter folder nesting because double nesting of folders is a Xilinx XPS requirements (even if it is not an SDK requirement).

Then click "OK". A new SDK reference for IP Core drivers should appear.

type filter text Add. remove or change the order of SDK's software repositories. If I and I	Preferences			x
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	2		Cancel	
		OK	B Cancel	

TE EDK IP cores drivers referencies added

Then click "OK" button. The pop-up "Preferences" will close and you should wait until the following message appears.



Build demo

You should also check the "Application Project" "demo" references.

Click/select "demo" in "Project Explorer", then click "Project">"Properties".



Open demo's project properties

The pop-up "Properties for demo" will open on "Resource"

Properties for demo		
type filter text Resource Builders C/C++ Build C/C++ General Project References Run/Debug Schings	Resource Path: /demo Lype: Project Location: C:\XilinxProject\reference-TE0300\SDK\SDK_Workspace\demo Last modified: 1. März 2013 09:32:56 Text file encoding Image: Cp1252 Other: Cp1252 New text file line delimiter Image: Cp1252 Other: Image: Cp1252 Other: Image: Cp1252 Restore Default Restore Default	
?	ОК	Cancel

Demo's project properties opened

lL

You should click /select "Project References". A new window wil appear on the same pop-up.

Properties for demo		
type filter text	Project References	⇔ • ⇔ • •
 Resource Builders C/C++ Build C/C++ General Project References Run/Debug Settings 	Projects may refer to other projects in the workspace. Use this page to specify what other projects are referenced by the project. Project references for 'demo':	
?	ОК	Cancel

J)

"Demo Project References" imported from original SDK workspace

You shoul also check (
) "reference-TE0300_hw_platform".

Properties for demo		
type filter text	Project References	↓ ↓ ↓ ↓ ↓
Resource Builders C/C++ Build C/C++ General Project References Run/Debug Settings	Projects may refer to other projects in the workspace. Use this page to specify what other projects are referenced by the project. Project references for 'demo': reference-TE0300_hw_platform standalone_bsp_0	
?	ОК	Cancel

"Demo Project References" modified

After this you should click "OK". You should wait until this mesagge will appear.

🖹 Problems 🖉 Tasks 🖳 Console 🛛 📃 Properties 🖉 Terminal	- ↓ ☆ 🔄 📰 🔐 🖦 🖻 ▼ 🔂 ▼	
C-Build [demo]		
**** Build of configuration Debug for project demo ****		*
make all make: Für das Ziel »all« ist nichts zu tun.		-

"Demo Project References" compile ends

You should also check the "Board Support Package Project" references.

Click/select "standalone_bsp_0" in "Project Explorer", then click "Project">"Properties".



Open bsp's project properties

A new pop-up window "Properties for standalone_bsp_0" will appear.



"standalone_bsp_0 project" references

In this case the bsp setting is correct. Only "reference-te0300_hw_platform" shoul be checked (

Click "OK" and the pop-up will dissapear.

Now, you should select if you desire to debug on a real UART (rs232) or a simulated UART on JTAG (debug_module).

You should click/select "standalone_bsp_0" in "project Explorer", then you should click "Xilinx Tools" > "Board Support Package Settings".



Board Support Package Settings opening

A new pop-up will appear "Board Support Package Settings".

Board Support Package	Settings			×
Board Support Packa Control various settings of	ige Settings Fyour Board Support Pac	kage.		
Overview standalone standalone_bsp_0 standalone OS Type: standalone cpu OS Type: standalone xps_fx2 xps_npi_dma Standalone: Hardware Specification: C:\XilinxProject\reference-TE0300\SDK\SDK_Workspace\reference-TE0300_hw_platform\system.xml Processor: microblaze_0 Check the box next to the libraries you want included in your Board Support Package.You can configure the library in the navigator				
	Name	Version	Description	
	lwip140	1.03.a	IwIP TCP/IP Stack library: IwIP v1.4.0, Xilinx adapter v	
	xilfatfs	1.00.a	Provides read/write routines to access files stored on	
	📃 xilflash	3.03.a	Xilinx Flash library for Intel/AMD CFI compliant paral	
	xilisf	3.00.a	Xilinx In-system and Serial Flash Library	
	ilmfs	1.00.a	Xilinx Memory File System	
?				OK Cancel

"Board Support Package Settings" pop-up

After this, you should click "standalone" and set "stdin" and "stdout" to "rs232" or "debug_module":

- you should select "rs232" if you desire to use a real UART (and not a simulated UART though JTAG connection);
 you should select "debug_module" if you desire that the XMD_UART works as local UART through the JTAG connection.

Demo program (running on MicroBlaze) will work even in case the UART port is left unconnected: it is not necessary to use a USB/Uart 0 converter or Uart port on a PC, if you are using XMD UART HDL block

🐵 Board Support Package Settings							
Board Support Package Settings Control various settings of your Board Support Package.							
Overview standalone	Configuration for OS: standalon	e					
drivers	Name	Value	Default	Туре	Description		
cpu	stdin	debug_module	none	peripheral	stdin peripheral		
xps_txz	stdout	RS232	none	peripheral	stdout peripheral		
xps_npr_unu	enable_sw_intrusive_profiling	false	້ false	boolean	Enable S/W Intrusive Profiling or		
	microblaze_exceptions	false	false	boolean	Enable MicroBlaze Exceptions		
	4				4		
?					OK Cancel		

BSP settings: rs232 or debug_module

After this, you should click "drivers" to verify that all Microblaze components are supported by the driver in the repository "C:\XilinxProject\TE-EDK-IP".

ard Support Packa ontrol various settings of	ge Settings your Board Support Package.						
Overview standalone drivers cpu xps_fx2 xps_npi_dma	Drivers The table below lists all the components found in your hardware system. You can modify the driver (or its version) assigned for each component. If you do not want to assign a driver to a component or peripheral, please choose 'none'.						
	Component	Component Type	Driver	Dri			
	microblaze_0	microblaze	cpu	1.1			
	ddr_sdram	mpmc	mpmc	4.0			
	debug_module	mdm	uartlite	2.0			
	dimb_cntlr	Imb_bram_if_cntlr	bram	3.0			
	ilmb_cntlr	Imb_bram_if_cntlr	bram	3.0			
	led	xps_gpio	gpio	3.0			
	rs232	xps_uartlite	uartlite	2.0			
	spi_flash	xps_spi	spi	3.0			
	xps_fx2_0	xps_fx2	xps_fx2	1.0			
	xps_i2c_slave_0	xps_i2c_slave	xps_i2c_slave	1.0			
	xps_intc_0	xps_intc	intc	2.0			
	xps_npi_dma_0	xps_npi_dma	xps_npi_dma	1.0			
			hearete	20			

BSP driver checking

Click "cpu". In particular you should also verify that "xmdstub_peripheral" is assigned to none if you desire to use debug_module instead of rs232.

Board Support Package Settings									
Board Support Packag Control various settings of y	e Settings our Board Support Package.								
Overview standalone drivers cpu xps_fx2 xps_npi_dma	Configuration for driver: cpu								
	Name	Value	Default	Туре	Description				
	compiler	mb-gcc	mb-gcc	string	Compiler used to compile both I				
	archiver	mb-ar	mb-ar	string	Archiver used to archive libraries				
	compiler_flags	-02 -c	-02 -c	string	Compiler flags used in BSP and I				
	extra_compiler_flags	-g	-g	string	Extra compiler flags used in BSP				
	xmdstub_peripheral	none	▼ none	peripheral	Debug peripheral to be used with				
				<u></u>					
	•	•							
?					OK Cancel				

xmdstub_peripheral assigned to none Click "OK" and the pop-up should dissapear.