iMX6 Series Processor

EC21 / NSD21 / SBC21

Python Setup in Windows XP

Application Note



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Release Notes

Version	Release Date	Notes	
2.0	Dec-27-2013	Second release	
3.0	Jan-20-2014	Edited by technical writer	

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1 Installing Python

Our setting up below is done with <u>Windows XP</u> on a <u>32-bit</u> computer system. The first step is to make sure you have Python installed on your system. You can obtain these files on our Wiki (File: <u>Ubuntu Develop Python in Windows.rar</u>).

1.1 Install Python 2.7.3 (python-2.7.3.msi)



5,496 KB



pycairo-1.8.10.win32-py2.7.msi Windows Installer 封装 144 KB



pygtk-all-in-one-2.24.2.win32-py2.... Windows Installer 封装 32,461 KB





1.2 Click *Next* and follow the steps below.

🛃 Python 2.7.3 Setup		×
	Select Destination Directory	
	Please select a directory for the Python 2.7.3 files.	
	💣 Python27 🔽 🗸 Up New]
python windows	C:\Python27\	
	< Back Next > Cancel	











🛃 Python 2.7.3 Setup		×
Install Python 2.7.3		
Please wait while the Installer inst several minutes.	talls Python 2.7.3. This may take	
Status:		
(***************)	
	< Back Next > Cancel)
		_



cx C:\Python27\python.exe	_ 🗆 :	×
Compiling C:\Python27\Lib\encodings\zlib_codec.py		•
Compiling C:\Python27\Lib\filecmp.py		
Compiling C:\Python27\Lib\fileinput.py		
Compiling C:\Python27\Lib\fnmatch.py		
Compiling C:\Python27\Lib\formatter.py		
Compiling C:\Python27\Lib\fpformat.py		
Compiling C:\Python27\Lib\fractions.py		
Compiling C:\Python27\Lib\ftplib.py		
Compiling C:\Python27\Lib\functools.py		
Compiling C:\Python27\Lib\genericpath.py		
Compiling C:\Python27\Lib\getopt.py		
Compiling C:\Python27\Lib\getpass.py		
Compiling C:\Python27\Lib\gettext.py		
Compiling C:\Python27\Lib\glob.py		
Compiling C:\Python27\Lib\gzip.py		
Compiling C:\Python27\Lib\hashlib.py		
Compiling C:\Python27\Lib\heapq.py		
Compiling C:\Python27\Lib\hmac.py		
Listing C: Python27/Lib/hotshot		
Compiling C: \Python27\Lib\hotshot\initpy		
Compiling C:\Python27\Lib\hotshot\log.py		
Compiling C:\Python27\Lib\hotshot\stats.py		
Compiling C:\Python27\Lib\hotshot\stones.py		
Compiling C:\Python27\Lib\htmlentitydefs.py	_	
		•



1.3 Finally, click *Finish* to complete the installation.





2 Installing Python pycairo

2.1 Install pycairo (pycairo-1.8.10.win32-py2.7.msi)

	gtk+-bundle_2.24.10-20120208_wi 24,122 KB	1	pycairo-1.8.10.win32-py2.7.msi Windows Installer 封裝 144 KB
1 ,	pygobject-2.28.3.win32-py2.7.msi Windows Installer 封装 432 KB	1	pygtk-all-in-one-2.24.2.win32-py2 Windows Installer 封装 32,461 KB
1¢	python-2.7.3.msi Windows Installer 封裝 15,496 KB		

2.2 Follow the steps to install pycairo.

Python 2.7 pycairo-1.8.10 Setup	×
Select whether to install Python 2.7 pycairo-1.8.10 for all users of this computer.	
 Install for all users Install just for me 	
Back Next > Cancel	









Python 2.7 pycairo-1.8.10 Setup	×	
Completing the Python 2.7 pycairo-1.8.10 Installer		
Click the Einish button to exit the Installer.		
< Back Finish Cancel		



3 Installing Python pygobject

3.1 Install pygobject (pygobject-2.28.3.win32-py2.7.msi)



3.2 Click *Next* to continue.

🙀 Python 2.7 pygobject-2.28.3 Setup	\mathbf{X}
Select whether to install Python 2.7 pygobject-2.28.3 for all users of this computer.	
 Install for all users Install just for me 	
Back Next > Cancel	



Python 2.7 pygobject-2.28.3 Setup	
Select Python Installations	
Select the Python locations where pygobject-2.28.3 should be installed.	
Python 2.7 from registry Python from another location	
< Back Next >	Cancel





Python 2.7 pygobject-2.28.3 Setup	×	
Completing the Python 2.7 pygobject-2.28.3 Installer		
Click the Finish button to exit the Installer.		
	_	
< Back Finish Cancel]	



4 Installing Python PyGTK

4.1 Install PyGTK (pygtk-all-in-one-2.24.2.win32-py2.7.msi)

	gtk+-bundle_2.24.10-20120208_wi 24,122 KB	1	pycairo-1.8.10.win32-py2.7.msi Windows Installer 封装 144 KB
1 ,	pygobject-2.28.3.win32-py2.7.msi Windows Installer 封裝 432 KB	P	pygtk-all-in-one-2.24.2.win32-py2 Windows Installer 封装 32,461 KB
1P	python-2.7.3.msi Windows Installer 封裝 15,496 KB		

4.2 Click Next.

i Python 2.7 PyGTK 2.24.2 Setup					
	Welcome to the Python 2.7 PyGTK 2.24.2 Setup Wizard				
	The Setup Wizard will install Python 2.7 PyGTK 2.24.2 on your computer. Click Next to continue or Cancel to exit the Setup Wizard.				
	Back Next Cancel				



🔂 Python 2.7 PyGTK 2.24.2 Setup	
Custom Setup Select the way you want features to be installed.	2
PyGTK All-in-one Python 2.7 extension modules PyGTK 2.24.0 PyGObject 2.28.3 PyCairo 1.8.10 PyGtkSourceView2 2.10.1 PyGocanvas 0.14.2 PyRsvg 2.32.1 Pvelopment Tools Glade UI Designer 3.8.1 Language Tools	Installs everything you need for PyGTK development except a Python 2.7 interpreter. This feature requires 4KB on your hard drive. It has 3 of 3 subfeatures selected. The subfeatures require 198MB on your hard drive.
Reset Disk Usage Back	Next Cancel











5 Installing GTK+

5.1 Install GTK+ (gtk+-bundle_2.24.10-20120208_win32.zip)



- 5.2 Make a new folder at the location **C:\gtk**
- 5.3 Extract the contents of the GTK+ zip file into C:\gtk
- 5.4 From the command line, type the following commands. To reach the command line, open the **Start menu** and go to **Accessories** and look for the **Command Prompt** shortcut or a similar application.
 - > cd C:\gtk\bin
 - > pkg-config –cflags gtk+-2.0





6 Verifying the Python Installation



6.1 Run the program Python (command line)

6.2 From the Python prompt, type the following commands

>>> import pygtk
>>> import gtk
>>> window = gtk.Window(gtk.WINDOW_TOPLEVEL)
>>> window.show()



6.3 The following very basic window should appear. You are now ready to start using the GTK libraries.





7 Running a Demo Program

7.1 Start Ubuntu Linux

		Passwor	Ubu henry d:	Cancel	ogin			
English (United States)	: 4	D USA	: 0	Ubuntu		6	Thu 3:58 PM	Ċ

7.2 Copy 2 files - readdemo.py and somefile.txt - to /tmp

Applications Pla	ces System 🕑	.	🖂 4:01 PM 🔲 henry 🔘
😣 🖨 🖨 tmp			
File Edit View Go	Bookmarks Help		
Back Forward	Image: Computer of the state of the sta	50% 🔍 List View 🔽	Search
Places 🔻 💥	C tmp		
🔊 henry	Name •	Size Type	Date Modified
📷 Desktop	keyring-68KVKZ	3 items folder	Thu 24 Jan 2013 04:00:21 PM CST
File System	▶ 📄 orbit-gdm	? items folder	Thu 24 Jan 2013 04:00:44 PM CST
Network Floppy Drive N Chost 0.00	orbit-henry	24 items folder	Thu 24 Jan 2013 04:01:24 PM CST
	pulse-2L9K88eMIGn7	? items folder	Thu 24 Jan 2013 04:00:39 PM CST
python on u	pulse-92mivy3Os0gh	2 items folder	Thu 24 Jan 2013 04:00:24 PM CST
😨 Frash	pulse-PKdhtXMmr18n	? items folder	Thu 24 Jan 2013 03:55:16 PM CST
Documents	ssh-fhbDkxfk1214	1 item folder	Thu 24 Jan 2013 04:00:20 PM CST
🐻 Music	virtual-henry.01oCGq	0 items folder	Thu 24 Jan 2013 04:00:30 PM CST
🛅 Pictures	▶ 📄 .esd-106	? items folder	Thu 24 Jan 2013 04:00:39 PM CST
🛅 Videos	▷ 🛅 .esd-1000	1 item folder	Thu 24 Jan 2013 04:00:24 PM CST
💿 Downloads	ICE-unix	1 item folder	Thu 24 Jan 2013 04:00:20 PM CST
	X11-unix	1 item folder	Thu 24 Jan 2013 03:55:18 PM CST
	🔗 readdemo.py	52 bytes Python script	Thu 24 Jan 2013 10:47:10 AM CST
	📄 somefile.txt	130 bytes plain text documer	nt Thu 24 Jan 2013 10:49:22 AM CST
	.X0-lock	11 bytes plain text documer	nt Thu 24 Jan 2013 03:55:18 PM CST
	2 items selected (182 bytes), Free space: 43.5 GB		
🗅 🗋 tmp			



7.3 Open a terminal (command line) and type the following commands:

\$ cd tmp
\$ python readdemo.py

This will run the **readdemo.py** file and show the results.



