

ZebexWin

(Version 1.00)

SDK Quick Start Guide

This manual leads you quickly to understand the Z-2050 and Z-2010 series terminal software development way. Please must have a look around the manual before you planning to develop the software.



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Introduction

This manual leads you quickly to understand ZEBEX Company's Z-2050/Z-2010 series products software development. Please have a look around this manual before you develop software. This manual will guide you the step of SDK installation and operation. The discussion of the content of the program procedure is not within the introduction range of this manual. To the user already familiar with the Z-2050/2010 series products SDK development environment, you can skip this manual carries on the programming directly. As to contacting the user of the ZEBEX Company Z-2050/2010 series products SDK for the first time, we sincerely advising you to read this manual firstly before proceeding the programming.

This manual will introduce you in the article:

1. How to install SDK.
2. How to set up the developing instrument.
3. How to using MS-C workspace and compile you program.
4. How to download the execution file into device and running.
5. How to use the program simulator to assist program debugging.

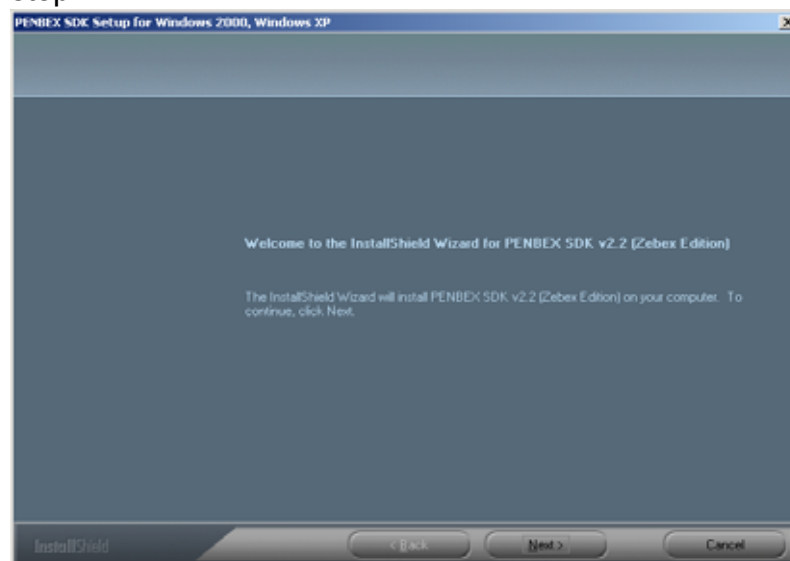
If you familiar with Z-2050/2010 SDK development environment already, more message please consult the "Software Development Manual ".

SDK Installation

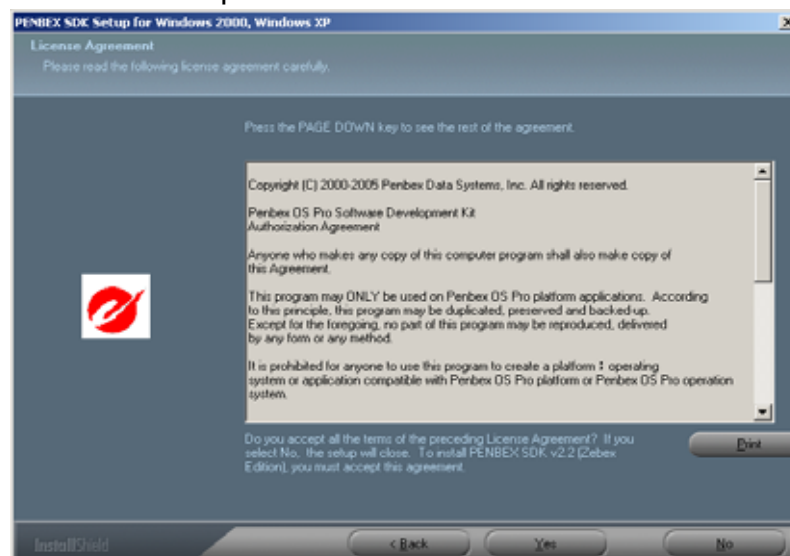
Please put the CD which is packaged with handheld computer into the CD ROM driver. You will see it is inserted with Help file and Z2050SDK directory. Click into the Z2050SDK directory, you will see Setup.exe installation procedure of the following icon, installation movements of starting SDK after starting this procedure.



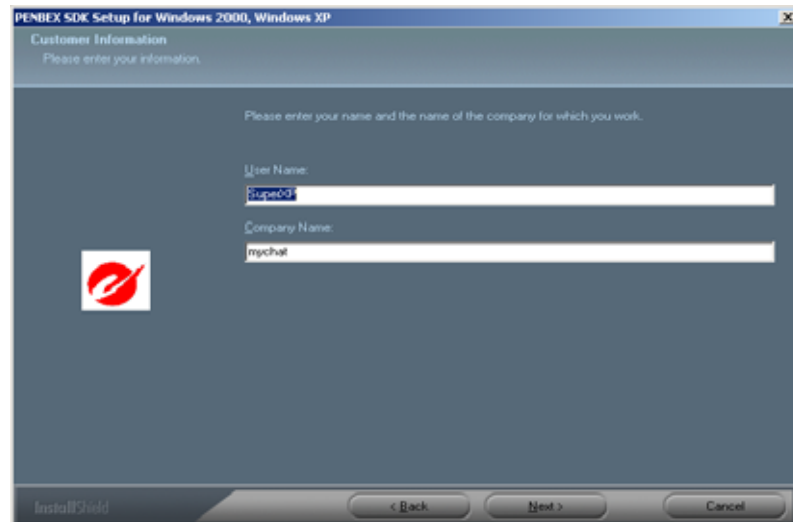
1. The welcome picture that the installation procedure will see the following picture at first after starting, clicking Next button the procedure will jump over this picture and carry on the next step.



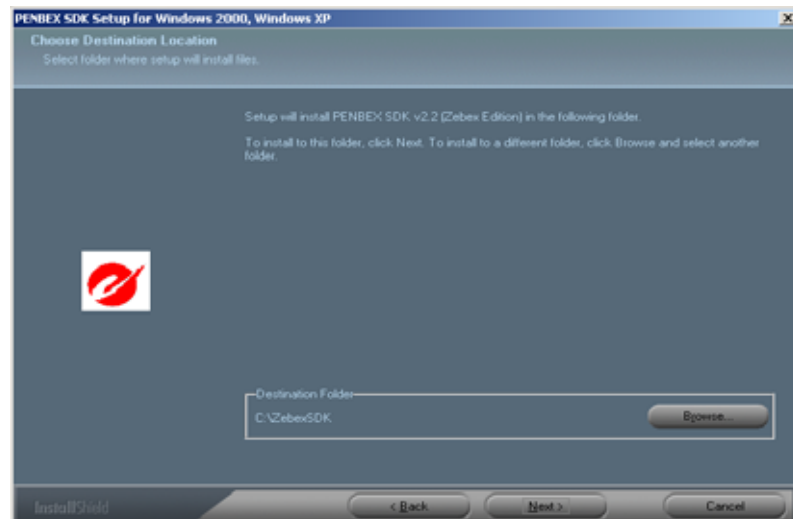
2. The following picture is a declaration of the copyright, clicking Next button the procedure will jump over this picture and carry on the next step.



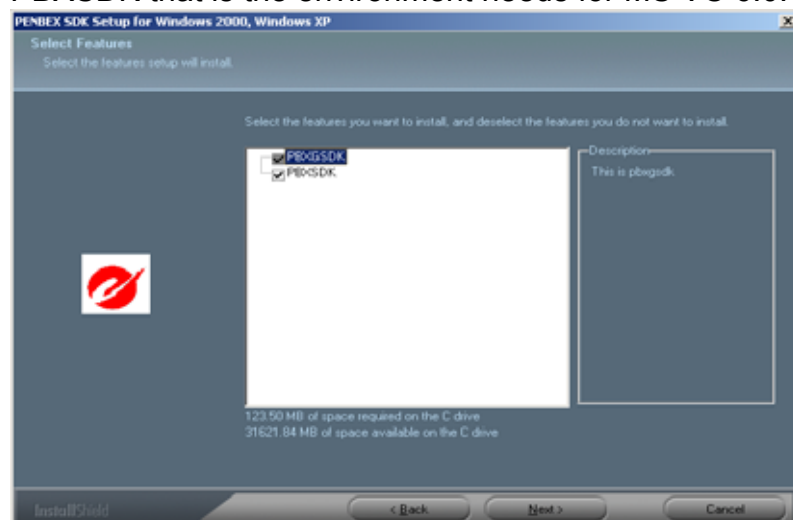
- Following screen lead you to input user and company name. Clicking Next button after input the name, the screen display will continue and go on to the next step.



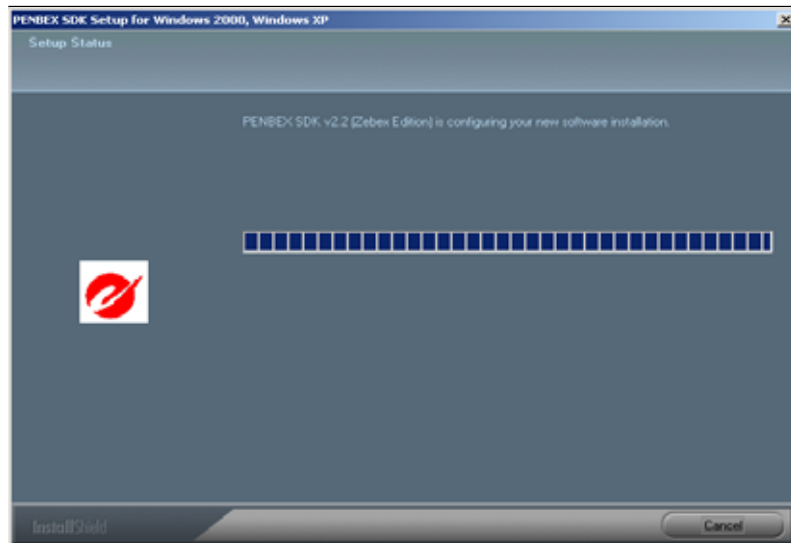
- Choose the path for SDK installed, and click Next button.



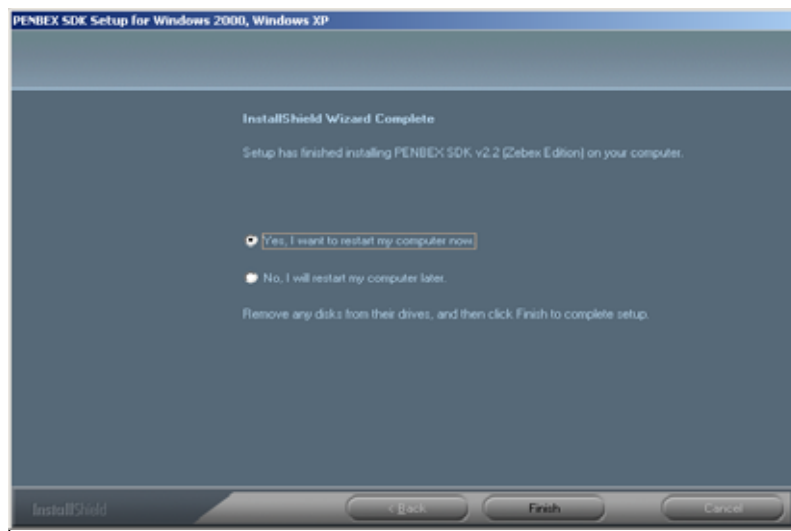
- This step is to choose the content that is installed for compiler. The PBXGSDK is a item that must be installed and the PBXSDK that is the environment needs for MS VC 6.0.



6. As the progress shows that is installed and finished for the whole procedure after 100%.

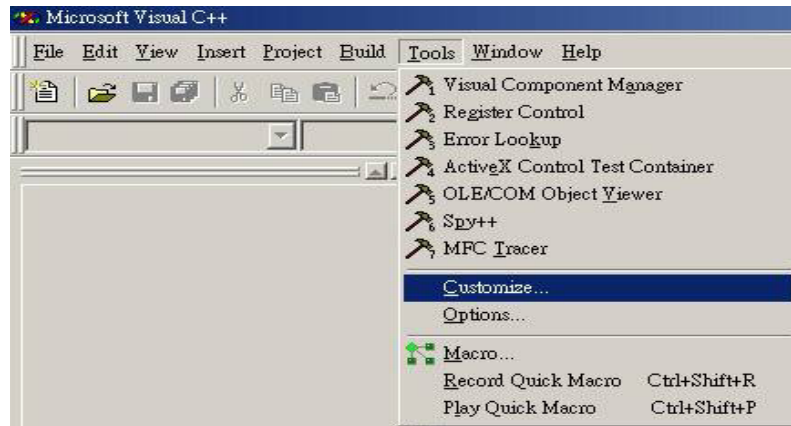


7. Finish installing the step after choosing to restart computer and pushing Finish button.

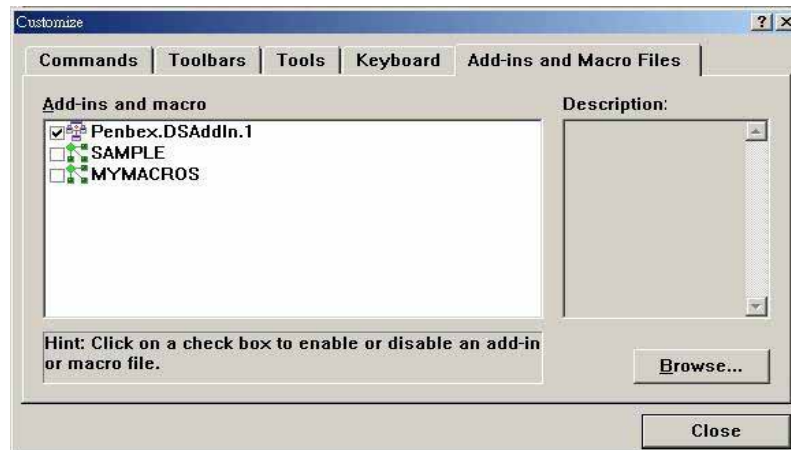


Add-in Components Installation

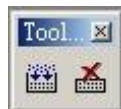
1. After finishing installing SDK, started MS VC ++ 6.0 and Click the Tools menu item then choose the item of Customize.



2. Choose Add-ins and Macro Files page and selected the item of Penbex.DSAddin.1.



3. The Add-in tool bar in the following pictures will shown on screen automatically.

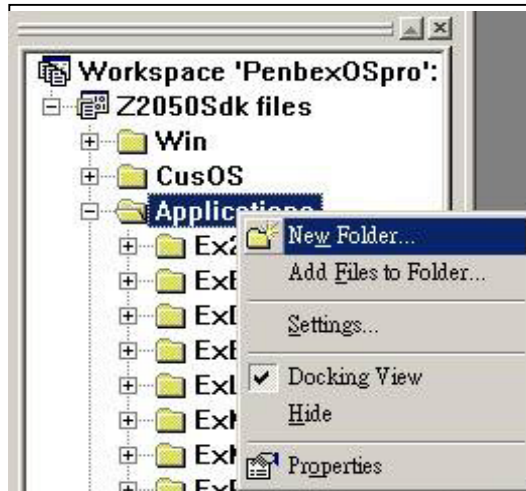


4. If Tool bar has not appeared, you can arrange and click the right button of the mouse regionally in the tool, and select again.



Use Workspace and Compiler

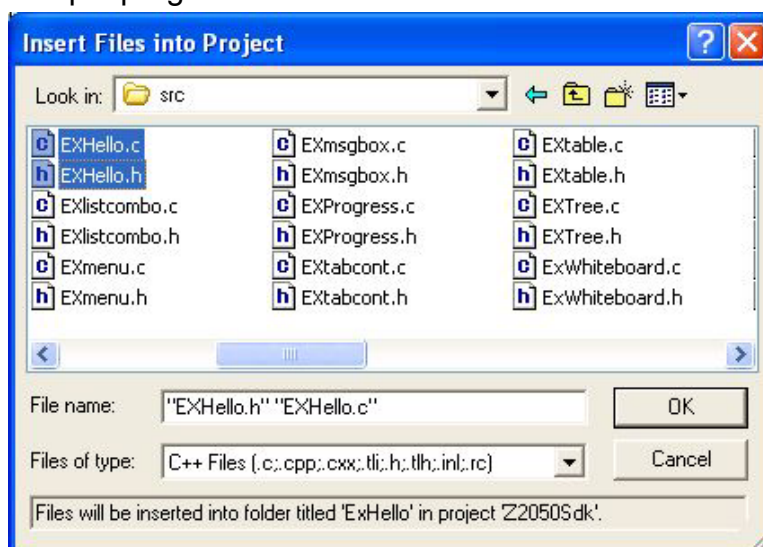
1. Open example workspace file.
Executive MS VC++ 6.0 and selected File → Open workspace to load the sample workspace file which is located with SDK installed directory " \ ZebexSDK\PBXSDK\ PenbexOSpro.dsw" .
2. Create program catalogue and source file
Hit the right button of the mouse and choose the New Folder in the Application catalogue.



3. Input the name of ExHello for the new folder.




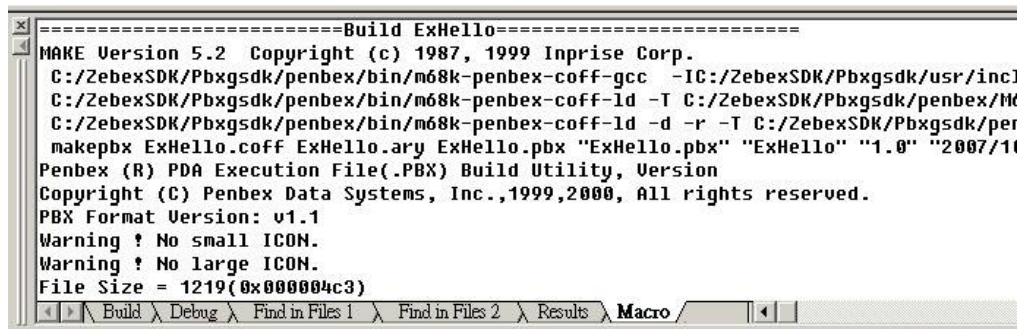
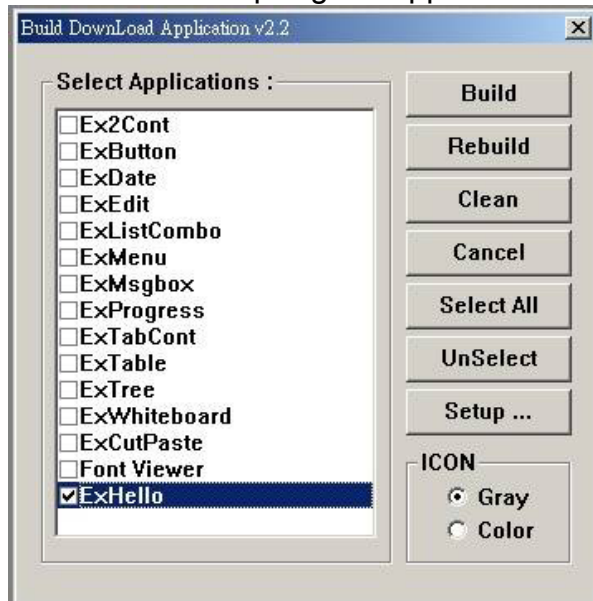
4. Add ExHello sample program file into new folder.
Click the mouse right button at the new folder for selected the sample program file ExHello.c and ExHello.h.



5. Linking and compiling the sample program.



Click the left button  at the Tool bar. It will trigger the **Build Download Application** window appeared. Select **ExHello** sample program that was just set up, and clicked the upper right corner **Build** button to start the compiler the linker. The message and result of compiling will appear at the **Macro** window.



6. The executable files type and location.

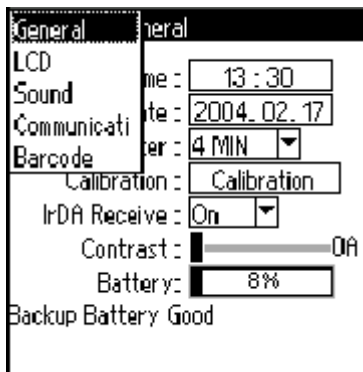
ZebexWin, the operating systems that use for Z-2050/2010 serial handheld computer is naming for execution sub-file name with ". PBX ". You can use Windows file explorer enter SDK install folder " \ ZebexSDK\PBXSDK\SRC " to found the execution file " ExHello.PBX ".

Application Download and Execution

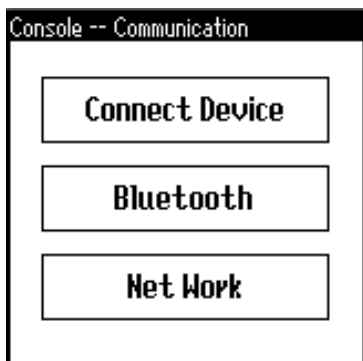
1. Power on Z-2050/2010 and click the screen upper left corner console icon.



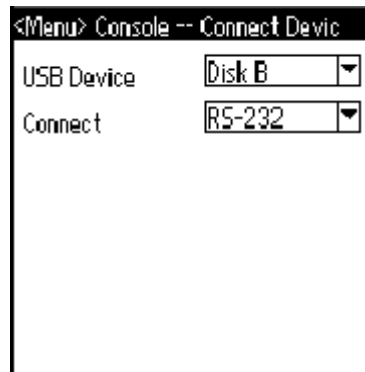
2. Click the screen upper left corner after entering Console to trigger the drop down menu.




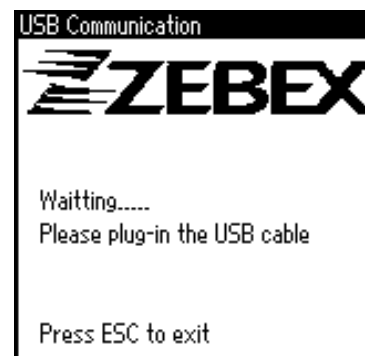
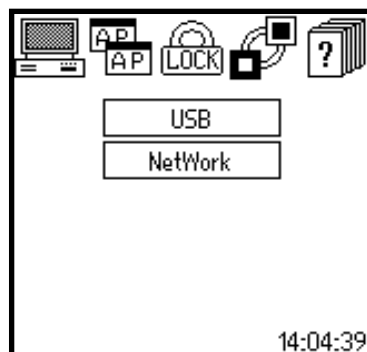
3. Choose **Communication** to enter into communication set up menu.



4. Clicking **Connect Device** to enter into the set up menu and confirm USB Device that was chosen is **Disk B**.



5. Get back to the desktop to choose  icon and selected **USB** connection to start the linking.

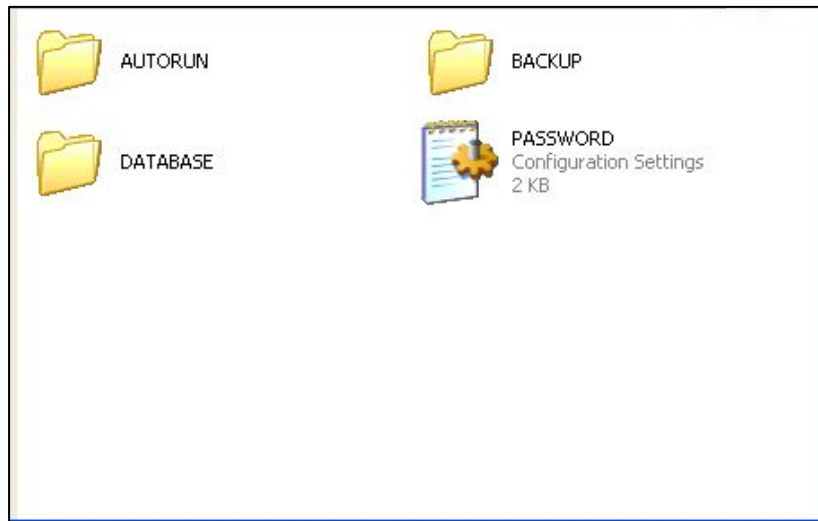



6. Put Z-2050/2010 into communication cradle or plug in USB cable for connect with PC, you will have one more removable disk at you PC.



Notice: Windows XP plug and play function will detect and examine the outer equipment automatically, please makes sure do not connect PC first and then press USB button, this will make Z-2050/2010 cause PC connection to fail.

Turn on the removable disk at your PC and double click the **AUTORUN** folder to open it.



7. Copy the executable program file (exp:ExHello.PBX) into this folder and disconnect with PC.
8. Get back to desktop and click the application program icon , you will see the executable program **ExHello.PBX** was inside 



9. Choose ExHello.PBX and

click to execute ExHello with Run button.



Program Simulator

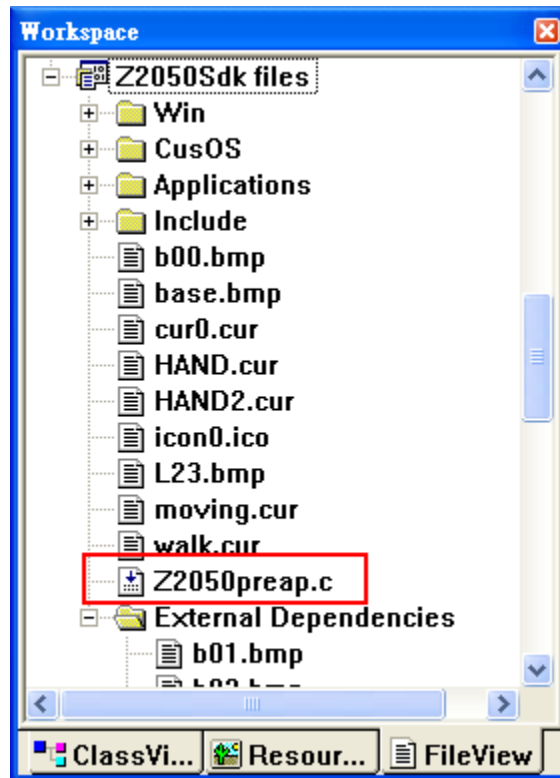
After the user writes a program well, if test and prove the function must be downloading to the handheld computer each time, perhaps there is very great influence on the working efficiency of whole program developing.

So ZEBEX has offered the program simulator to helping users develop program and test or prove the function on PC directory. There can be a more convenient way for faster test and verification your program.



If you want to use program simulator to test your program, Please use the following steps to add you program into the simulator.

1. Open the sample program workspace file
Open MS VC++ 6.0 and choose File → Open workspace to load the workspace file " \ ZebexSDK\PBXSDK\ PenbexOSpro.dsw ".
2. Open Z-2050preap.c file
The position where the following red frame of picture labels, open this file of " Z-2050preap.c ".



3. Join Include File
Add your program include file (exp:ExHello.h) at the top of Z-2050preap.c.

```
following contents.
*****
#include "pbxall.h"
#ifdef WIN32//[

#include "EXmsgbox.h"
#include "EXTree.h"
#include "EXtable.h"
#include "EXtabcont.h"
#include "EXProgress.h"
#include "EXWhiteboard.h"
#include "EXmenu.h"
#include "EXlistcombo.h"
#include "EXedit.h"
#include "Exdate.h"
#include "EXbutton.h"
#include "EX2cont.h"
#include "Excutpaste.h"
#include "App.h"
#include "ExHello.h" — Add Include file
```

4. Join your program into device's desktop
Find by the procedure of LoadPreloadAP() among Z-2050preap.c, and increase a line of command newly as follows:

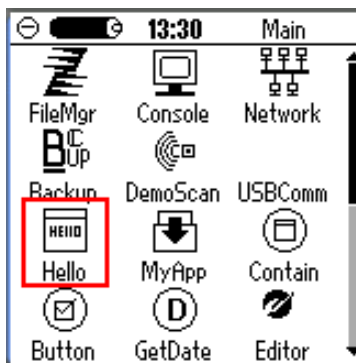
```
void LoadPreloadAP (void)
{
    int iAppNdx;

    PreloadAPInitial();
#ifdef WIN32//[
// Basic
    iAppNdx = AppAdd(GetBmp("ExHello", 'S'), GetBmp("ExHello", 'L'), "HelloMain.px", _
        "Hello", HelloMain, 0, (void *)&cHelloVar, sizeof(HelloVar), (void **)&pHelloVar);
    iAppNdx = AppAdd(GetBmp("ExMyApp", 'S'), GetBmp("ExMyApp", 'L'), "MyAppMain.px", "MyApp"
```

5. Execute the simulator



Pursue the red frame to label as above, will start the compiling after clicking the red exclamation mark, the program simulator will present the following picture after compiling and linking. You can see the file that you joined just now in the simulator desktop, called the program of Hello.



Double click the Hello icon may start the program, and going to simulate your program for test.



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