

Introduction

Sometimes users would like to control the programmer by their own without SW we offer. The windows command line has been designed to control IS01 from other software. For example: Program automatically the serial flash via the ICT tester after the hardware has been checked.

Requirements

Please install the SUPERPRO programmer software correctly. And copy the file is01_lic.lib(C:\SPis01\lib\) to the path where project files will be located. Latest Superpro IS01 software can be downloaded and installed from the following link:

<http://www.xeltek.com/software/spIS01/nspwis01.exe>

Basic Usage

The xltpg.exe must be with pg.dll in the same directory. While using xltpg.exe, It will create xlt_config.txt which will save the setting and don't modify this file manually. Open windows command console, then run xltpg.exe.

Commands description: Not case-sensitive

Help

Function: Display the command line usage.

Usage: xltpg.exe help

Init

Function: Initialize the system and set work path.

Usage: xltpg.exe [dev] init [work path]

[dev]: the programmer No., the most case is 1, if there are some programmers in system, you can control the selective one.

[workpath]: the project file will be located in.

Ping

Function: Enable communicate with programmer

Usage: xltpg.exe [dev] Ping

[dev]: the same with before

This command is not necessary. But it is helpful to check whether the programmer is connected to PC well.

Loadprj

Function: Load project file to programmer

Usage: xltpg.exe [dev] loadprj [project]



[dev]:the same with before

[project]: the project file witch must be located in work path

Run

Function: Run operation

Usage: xltpg.exe [dev] run [operation]

[dev]:the same with before

[operation]:such as "Erase", "Program", "Verify"...

Updateimage

Function: Replace the image of project with new image

Usage: xltpg.exe updateimage [image] [project] [nbuf] [type] [mode] [bufaddr] [fileaddr]

[image]: The image file to be load (Please use absolute path, such as: C:\OEM\filename but not only filename)

[project]: project file witch will be replaced (Please use absolute path)

[nbuf]: the index of buffer, begin with 0

[type]: 0-binary;1-hex;2-motorola

[mode]: 0- Normal;

1- 1st of 2;

2- 2nd of 2;

3- 3rd of 4;

4- 4th of 4;

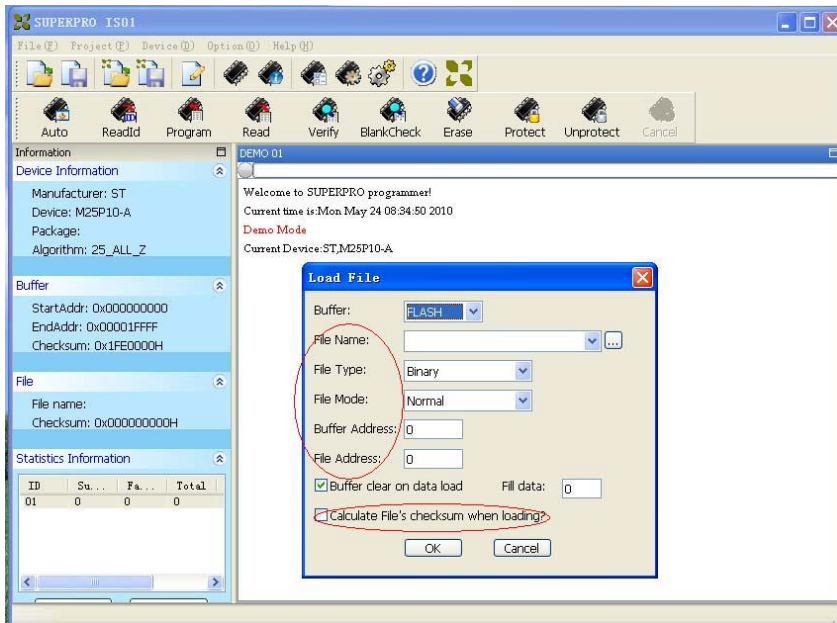
5- 1st 2 bytes of 4

6- 2nd 2 bytes of 4[Bufaddr]:

buffer offset when load [fileaddr]:

file offset when loading

Note: the arguments type, mode, bufaddr, fileaddr have the same meaning when load file with ISO1 S/W.

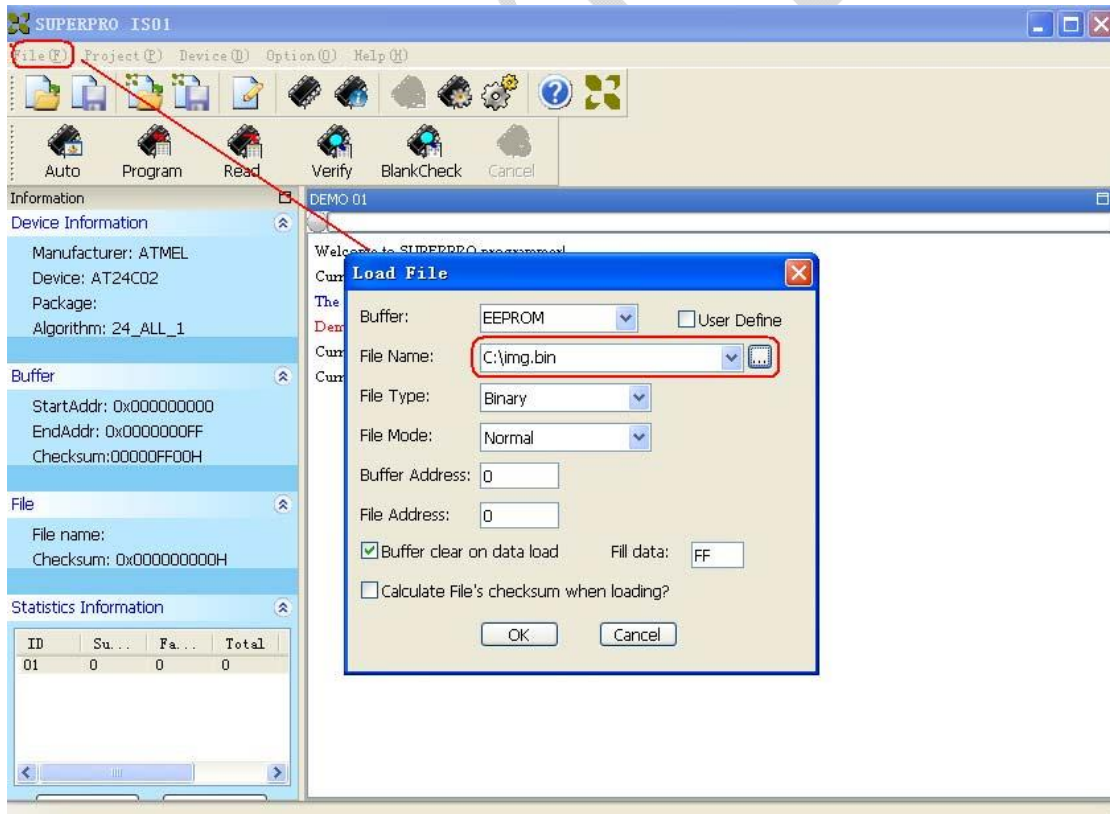
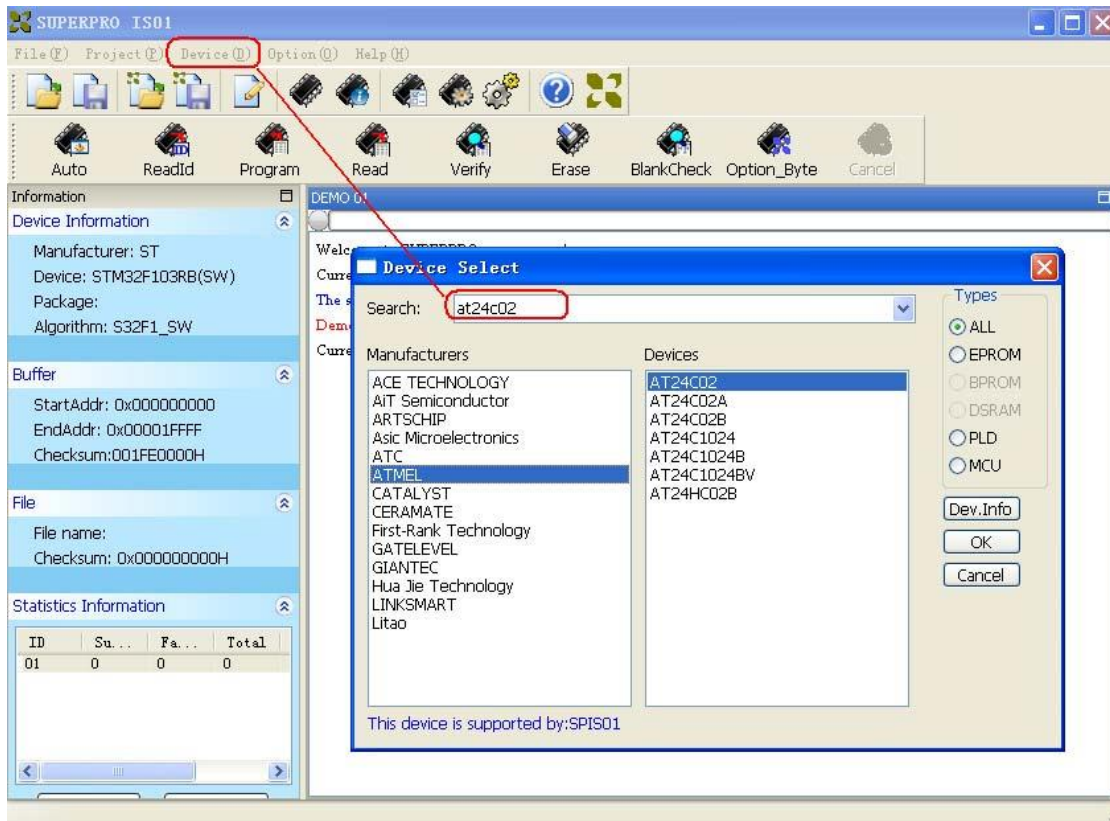


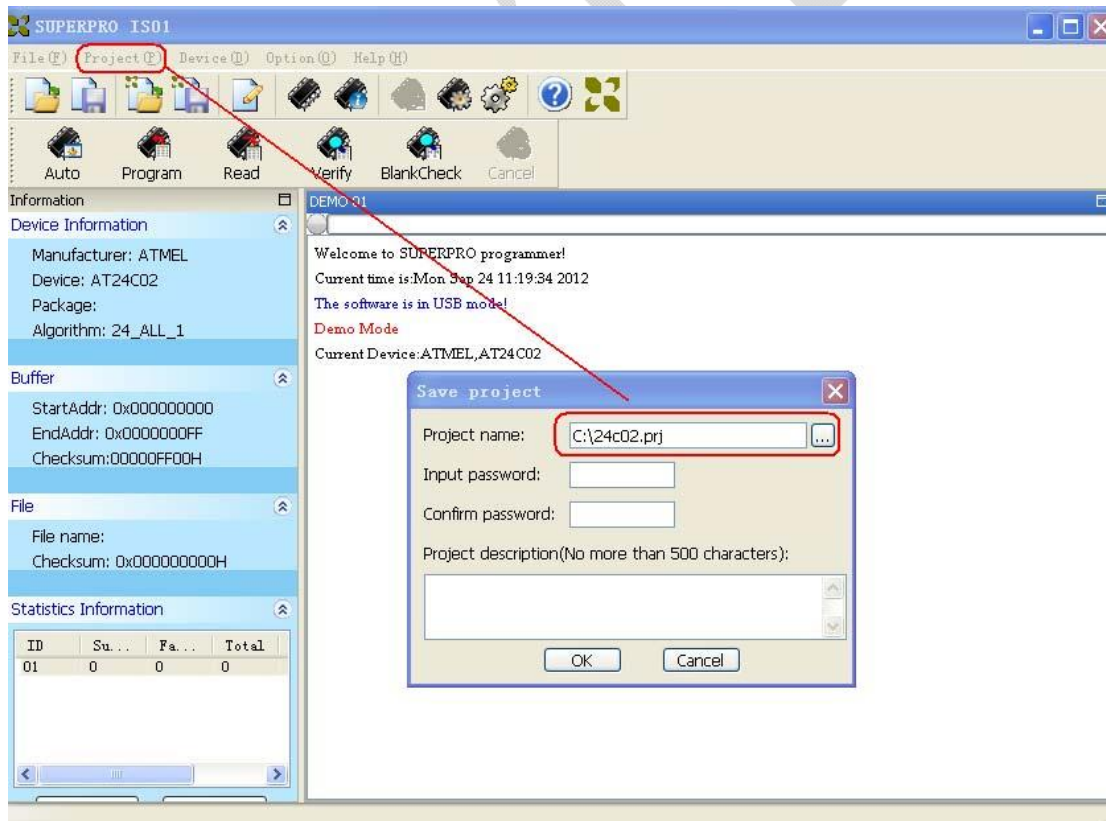
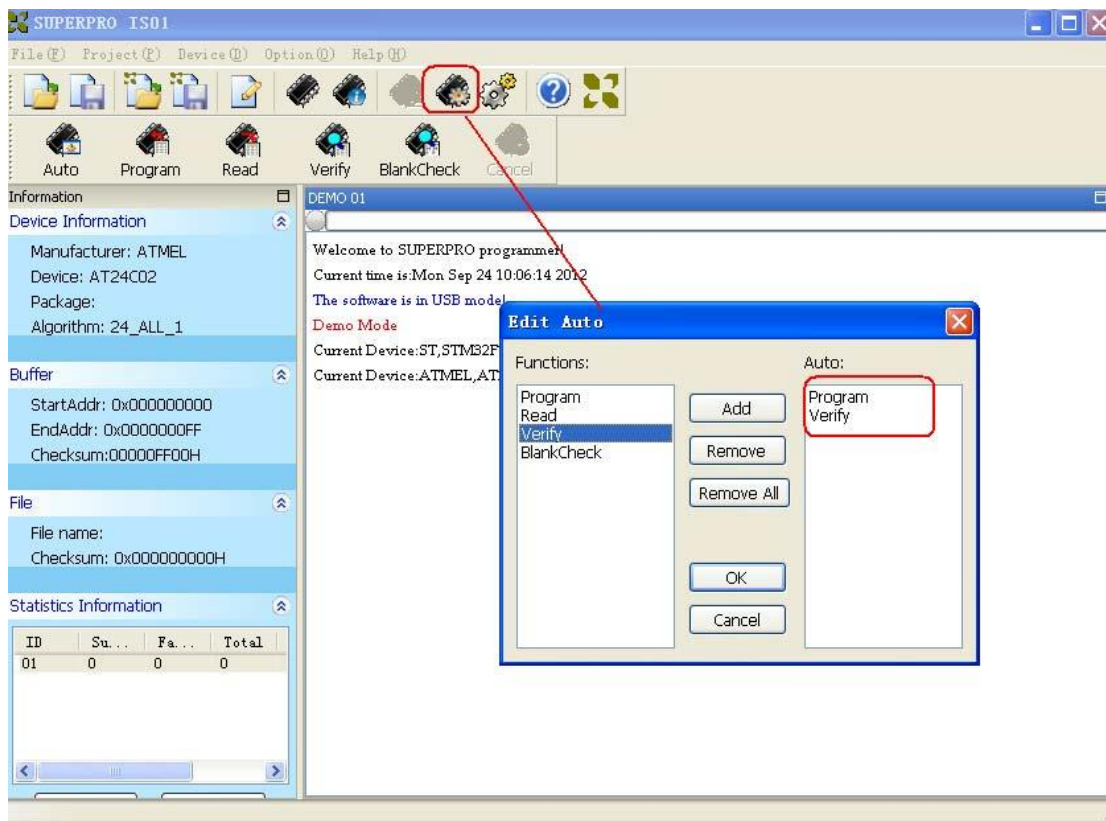
Demo

The command line to control programmer bases on project file. The project file packs all the Information with the device(chip) including image data, configures and so on. Please generate project file with IS01 S/W firstly (IS01 handbook describe it in detail), then run xltpg.exe. For example: if want to operate the chip 24C02, and put the project file in C:\Oem.(User may put the project files in any dir). xltpg.exe and pg.dll have been put in c:\spis01\bin(User may put these files in any dir).

Steps:

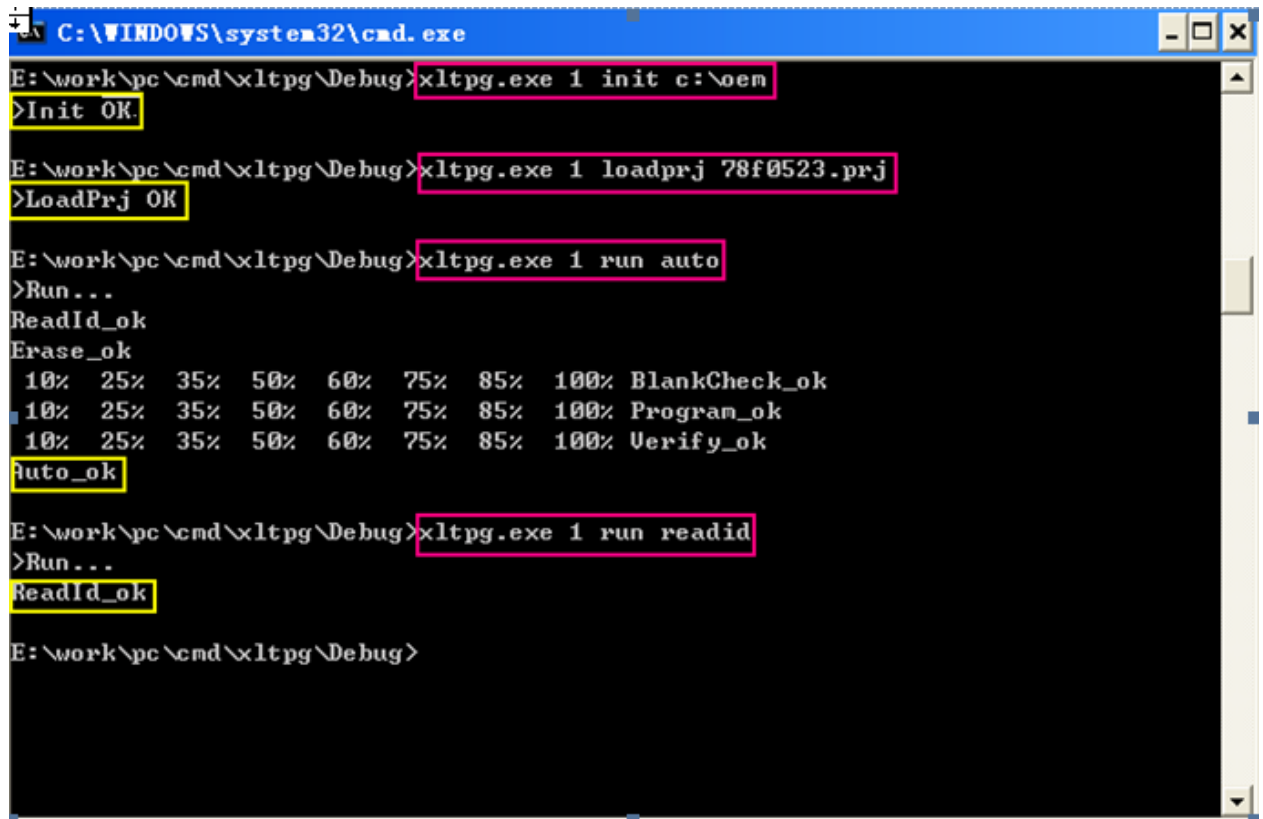
1. Create the dir c:\Oem, if exists and skip.
2. Operate with IS01 S/W. Select AT24C02, load data file and edit auto ,then generate project file :24c02.prj,and put it in C:\Oem. Then close S/W if call the DLL with the same PC. (Do like the following figures)





3: Open windows command console and run.

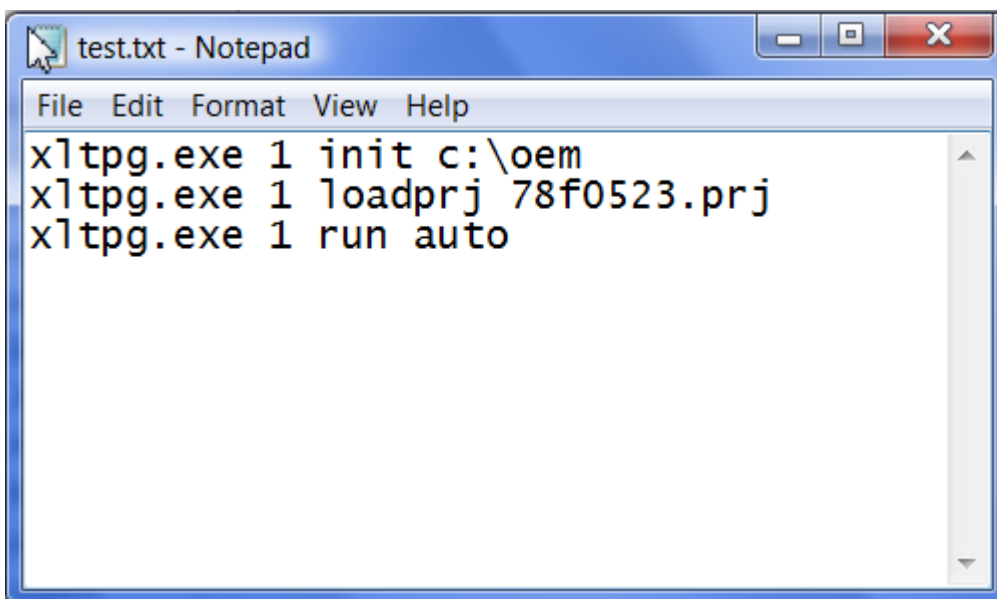
This demo is with chip 78F0523(NEC), and xltpg.exe is put in E:\work\pc\cmd\xltpg\Debug



```
C:\WINDOWS\system32\cmd.exe
E:\work\pc\cmd\xltpg\Debug>xltpg.exe 1 init c:\oem
>Init OK
E:\work\pc\cmd\xltpg\Debug>xltpg.exe 1 loadprj 78f0523.prj
>LoadPrj OK
E:\work\pc\cmd\xltpg\Debug>xltpg.exe 1 run auto
>Run...
ReadId_ok
Erase_ok
10% 25% 35% 50% 60% 75% 85% 100% BlankCheck_ok
10% 25% 35% 50% 60% 75% 85% 100% Program_ok
10% 25% 35% 50% 60% 75% 85% 100% Uerify_ok
auto_ok
E:\work\pc\cmd\xltpg\Debug>xltpg.exe 1 run readid
>Run...
ReadId_ok
E:\work\pc\cmd\xltpg\Debug>
```

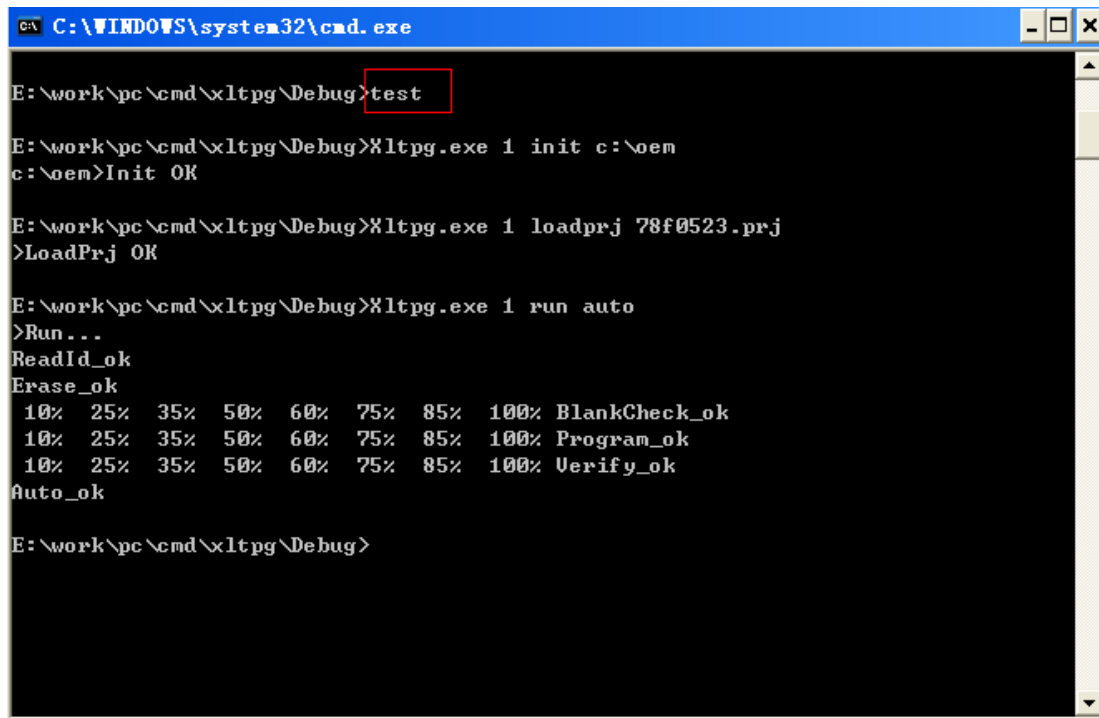
Script

How to write a script to control programmer? Open a .txt editor, and write like this:



```
test.txt - Notepad
File Edit Format View Help
xltpg.exe 1 init c:\oem
xltpg.exe 1 loadprj 78f0523.prj
xltpg.exe 1 run auto
```

Then save it as .bat, for example test.bat. Now user may control programmer by running this test.bat directly. If xltpg.exe is not in the same path with the test.bat, please use absolute path.



```
C:\WINDOWS\system32\cmd.exe

E:\work\pc\cmd\xltpg\Debug>test

E:\work\pc\cmd\xltpg\Debug>xltpg.exe 1 init c:\oem
c:\oem>Init OK

E:\work\pc\cmd\xltpg\Debug>xltpg.exe 1 loadprj 78f0523.prj
>LoadPrj OK

E:\work\pc\cmd\xltpg\Debug>xltpg.exe 1 run auto
>Run...
ReadId_ok
Erase_ok
 10% 25% 35% 50% 60% 75% 85% 100% BlankCheck_ok
 10% 25% 35% 50% 60% 75% 85% 100% Program_ok
 10% 25% 35% 50% 60% 75% 85% 100% Verify_ok
Auto_ok

E:\work\pc\cmd\xltpg\Debug>
```

Notice & Error

Note:

- 1: "init" must be called firstly. If init has been called already, it's no need to call again.
- 2: "loadprj" must be called before to "Run", otherwise will get error like "subsys_err".
It's no need to call this again after it has been called already. But if the PC or programmer reboots, the command "loadprj" must be called again.
- 3: "run" operation, the operation must be supported by the chip. For example, AT24C02 has no "Erase", but if run erase, you will get error like "no_such_function".
- 4: After "init" and "loadprj", you may call "run operation" repeat, and no need to call "loadprj" otherwise you want to operate other project.

Error description:

- #E1: arg invalid -- The arguments is not correct
- #E4: load lib error:%d -- pg.dll in not exist in the dir which xltpg.exe locates
- #E5 :load lib func error:%d -pg.dll is broken
- #E7: path invalid --path is not exist
- #E8: no such dev -- The selective programmer not exist, please check the connection, and switch on programmer
- #E11: Fail open xpg_config.txt
- #E12: [file] Not Exist
- #E13: fail to loadprj
- #E14: fail ping -- Fail to communicate with programmer
- #E15: updateimage fail