

Lalim Parallel Port Control (Basic)

Lalim Parallel Port Control can control hardware through the parallel port (printer port) and can also control a remote PC parallel port through a network.

Most of engineering industry using PC to control hardware with using additional I/O card but with **Lalim Parallel Port Control** you can use your default printer port controlling external device such as switching on/off light or control electronic devices. What does this program [does is] trigger the parallel port (Printer port) 's data pin by your command. For example when you trigger pin2, your printer port's pin2 becomes +5 volt. With this +5 volt, you can build your own electronic circuit to drive other external device. You can also built a simple circuit to test it by connect a LED with 1 kohm resistor direct to it pin.

Lalim Parallel Port Control requires a certain knowledge of electronics and if you are not comfortable with a soldering iron, or don't know what a 1k resistor is, then it is probably advisable that you do not attempt to use this program.

If you are capable working with DC electronics, **Lalim Parallel Port Control** allows you to build remote-controlled, or timed, devices for your home or office – turning on or off the air conditioner, adjusting lighting, opening & closing windows, monitoring burglar alarms, and more.

How to use this program

You can use this software to Connect Direct or Connect Though Network.

Connect Direct

Connect Direct means you use this program on the same PC to control the same PC's parallel port.

- 1.Tick the check box on which pin you want it to trigger, (D0- D7). Example tick D2
- 2.Click Set to in Local Printer Port
- 3.Now pin number 4 triggers to 5 volt.
- 4.To reset all pin 2-9 to 0 volt clicks Reset

Connect Through Network

Connect Through Network means you can control both remote PC parallel port through network and controller PC parallel port directly.

- 1.Install the software on both PC.
- 2.For remote PC, click connects as server.
- 3.For Controller PC, connect as client.
- 4.Run the program on remote PC first. Then run the controller PC.
- 5.On the Controller PC, enter IP address of the remote PC, then click connect.
- 6.If connection successful, it will shows "connected" in the status and command button on remote printer port will enable. Now you can start send command to remote PC.

Key Function

Connect as server - Use the program as server.

Connect as client - Use the program as client.

Check box D0-D7 - Tick the check boxes you that you want to trigger.

Clear - Remove tick all the check box

Set - Send command from the check box to trigger parallel port

Reset - Reset parallel port pin2-pin9 to 0 volt

Check - Check which parallel port 's pin (Pin2-pin9) is trigger?

Setting- Start up as client (After reboot the program remain as client). Start up as server (After reboot the program remain as server)

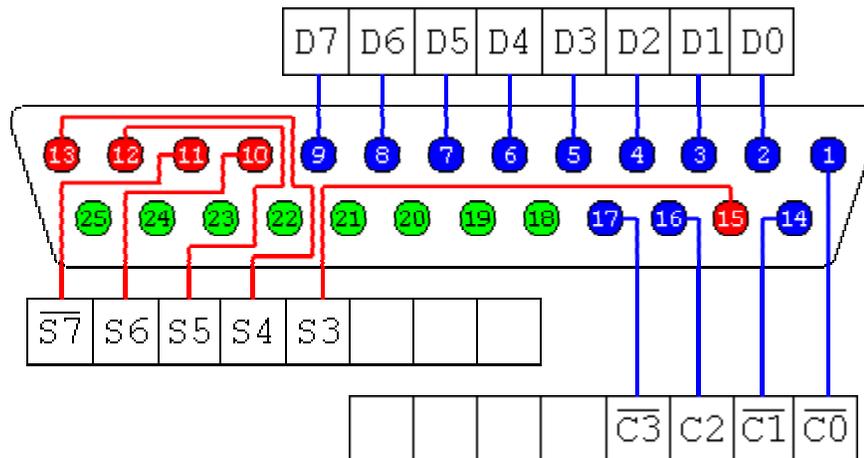
Parallel port address - You can choose which parallel port address that you want to control. You can also check the

Parallel port default setting in Windows. Click System Properties, select Device Manager, double click Ports (COM & LPT), double click Printer Port (LPT1), select Resources. You can view your default port address.

Hardware Info

You can easily control the parallel port. It included 25 pins and three ports. (Data port, Status port and Control port) If you set any of those pins to "1", it means that pin has got +5V. (Vice versa if "0" then 0V)

Your computer appoints a logical address. You can see this address from Control Panel/System/Ports/LPT1. (Default &H378)



Pin	Job	D/S/C	Name
1	Output	C0	-Strobe
2	Output	D0	+Data Bit 0
3	Output	D1	+Data Bit 0
4	Output	D2	+Data Bit 0
5	Output	D3	+Data Bit 0

6	Output	D4	+Data Bit 0
7	Output	D5	+Data Bit 0
8	Output	D6	+Data Bit 0
9	Output	D7	+Data Bit 0
10	Input	S6	-Acknowledge
11	Input	S7	+Busy
12	Input	S5	+Paper End
13	Input	S4	+Select In
14	Output	C1	-Auto Feed
15	Input	S3	-Error
16	Output	C2	-Initialize
17	Output	C3	-Select
18-25	Ground	-	Ground

Data Port:

Data port has 8 (D0-D7) pins. You can output 8bit data from here. If we don't send any data to data port, the value is default 00000000.

For example we send "25" to data port:

"25" is 00011001 in binary mode, in this case D4, D3 and D0 pins has +5V.

1=00000001

4=00000010

15=00001111

70=01000110

If you put a LED any of the data pin (and another leg is to any of grounds), you can light it by sending "1" to that data pin. (Or a relay instead of led, if you want to make a switch)

Status Port:

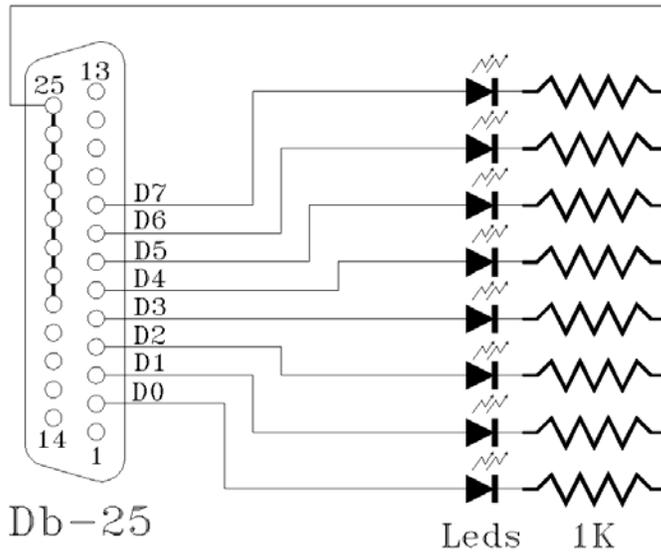
With status port, we can get 5bit input. (15,13,12,11,10 pins) The default value of these pins is "1" (+5V). With some buttons we can ground these pins and make them "0". But as an exception, the pin S7 is default "0" and if we ground it, it will be "1".

Control Port:

We can use the control port for output and also input. These 4 pins has the default value of "1". If status and data ports is not enough for us then we can use control port. Usage is same as above.

To get the full effect of this it is helpful to have a small amount of electronics knowledge. You could do this simply by sticking the positive side of a LED into pins 2-9 on your parallel port and the negative side of the LED into pins 18-25 if you don't have much electronics knowledge. However, below is the schematic for a simple array of LED. You could build this very easily if you know how to solder.

With this circuit you would simply run a wire from the positive end of all of the LED's to one of the pins on the parallel port, pin 2-9, and then the other end of the LED to pin 18-25 of the parallel port. All of the ground wires can be put into 1 of the parallel port's ground pins, not all 8 individual wires but 1 wire that they all hook up to.



Programming Script

```
=====
Wait 2 seconds before next          SLEEP 2S
Wait 200 mili seconds before next   SLEEP 200MS
Loop from begin                      {LOOP}
Remark or comment                    #
Input Trigger Output                 IF INP 111 255P
```

Remark: The 111 is value from status port and 255 is **output** these value must have 3 digits, example, 095, 001 etc.

Version 3.0.0

Control remote computer 's parallel port in network
 View computer 's parallel port status
 Has interface same as parallel port (For easy viewing)
 Show binary input / output
 Control data pin 2 to pin 9
 Work on Win9X/ME

Version 3.1.0

Now in version 3.1.0 and above, it support input through Pin 10,11,12,13 and 15. You can grounded these pin to trigger program to perform some action. You can write

your own scripts for this.

Version 3.2.0

Work on Win9x/Me/Nt/Xp

Addin Auto timer for update status

No more flicker on display when run script

Example

```
=====
# loop LED between 500 ms
# Pin 2 LED switch on
SLEEP 200MS
DEC 1P
# Pin 3 LED switch on
SLEEP 200MS
DEC 2P
# If pin 13 grounded then Pin 4 LED switch on
SLEEP 500MS
IF INP 111 004P
SLEEP 200MS
# Pin 5 LED switch on
DEC 8P
SLEEP 200MS
{LOOP}
```

Frequent Asked Question

Q1. I downloaded your program Parallel Port Control, but I can't get it to run under win XP. I get error messages "326:Error in genFileFromRes, Error Message: Resource with identifier '103' not found"

A. For NT, 2000 and XP user, for the first time run the program, you must logged in as administrator .Are you the only user on these machines or do you have others who have their own accounts? If you are the only user, you are the Administrator.

If the above step still not works, you may download just the file you are missing and manually register it yourself. Here's how to do it:

1. [Download Mswinsck.zip](#) . Right click the text on the left and save to your Desktop, unzip it to Mswinsck.ocx
2. Back up your current copy of Mswinsck.ocx and copy the new version to the same file location. This file should be located in the WINDOWS\SYSTEM directory on your C: drive (for Windows NT, 2000, and XP: \WINNT\system32).
3. Using your mouse, click on the "Start" button and then click on "Run".
4. Type the following command to register this library file: **regsvr32** \windows\system\Mswinsck.ocx (for Windows NT and 2000: regsvr32 \WINNT\system32\Mswinsck.ocx)

5. You should see a message saying "DllRegisterServer ... succeeded"

If you are getting an error telling you that the file is missing, then you are not typing the command in correctly. You will need to type it in **exactly** as follows:

regsvr32 \windows\system\Mswinsck.ocx

regsvr32 \WINNT\system32\Mswinsck.ocx (for Windows NT and 2000)

**** Please note that there is a SPACE after "regsvr32" and before windows\system\Mswinsck.ocx "***

This software is provided "as is", without any guarantee made as to its suitability for any particular use. I take no responsibility for any damage that may unintentionally be caused through its use.

This program "Lalim Parallel Port Control" was written using Visual Basic 6. If you need any custom made program email me at Lalim923@hotmail.com

URL1: <http://www.angelfire.com/mb/lalim/>

URL2: <http://www.geocities.com/lalimsoftware/>

25th January 2003