
Lab 2. 软件编程

主要议题:

- 强大的编程能力
- 面向未来的投资
-

	Start Lab 2		
	Open Rslogix5000 software	Objective	Benefit
	-Create new project	Uniform program environment for logix platform,	save engineering training cost
	-Firmware	Field upgradable OS/Instruction	Equipment Upgrade with more new function, Protect Investment
	-Simple project programming	Quick and easy progra	Improve your competitive ability
	-Timer/Download/Upload/IO		
	-Trending, timer		
	-Alias program --- I/ O		Parrellel Programming /reduce development time

请按步骤:

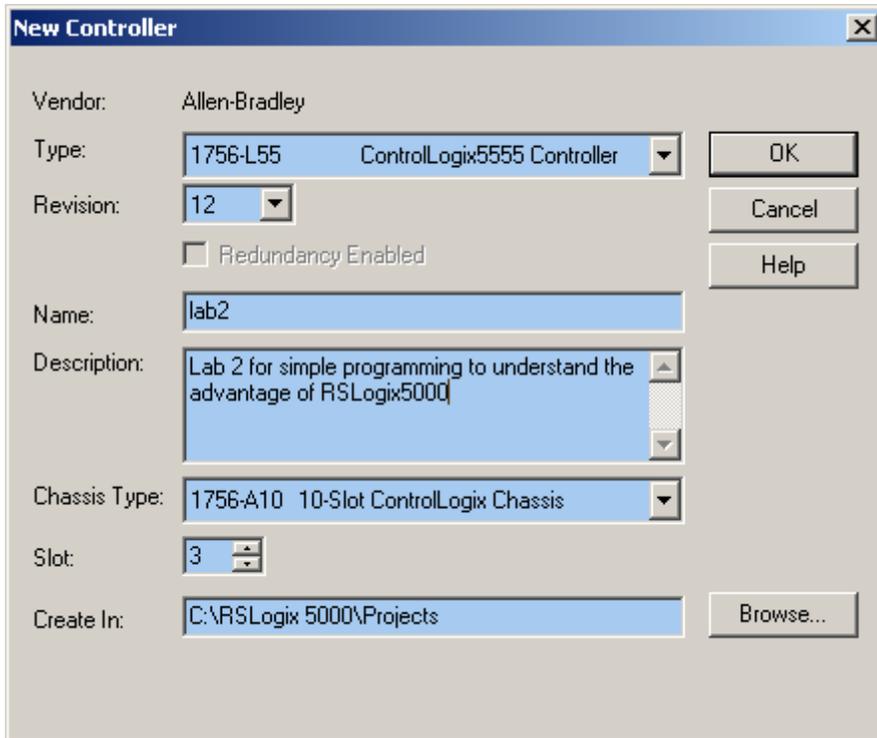


1) 点击  。



2) 新建工程  点击 。

3) 设置参数如下。



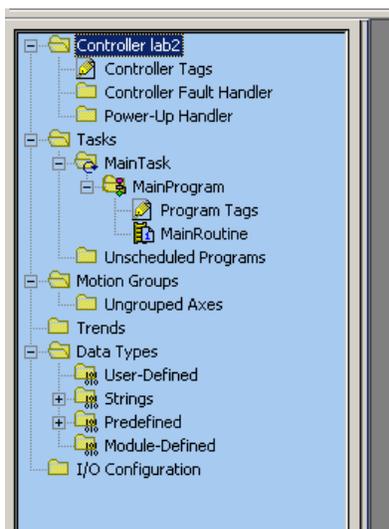
Revision: Logix 平台，提供了固件升级手段，保护你的投资，真正面向未来的控制平台。

Type: 你可选择基于 Logix 平台的多种处理器。

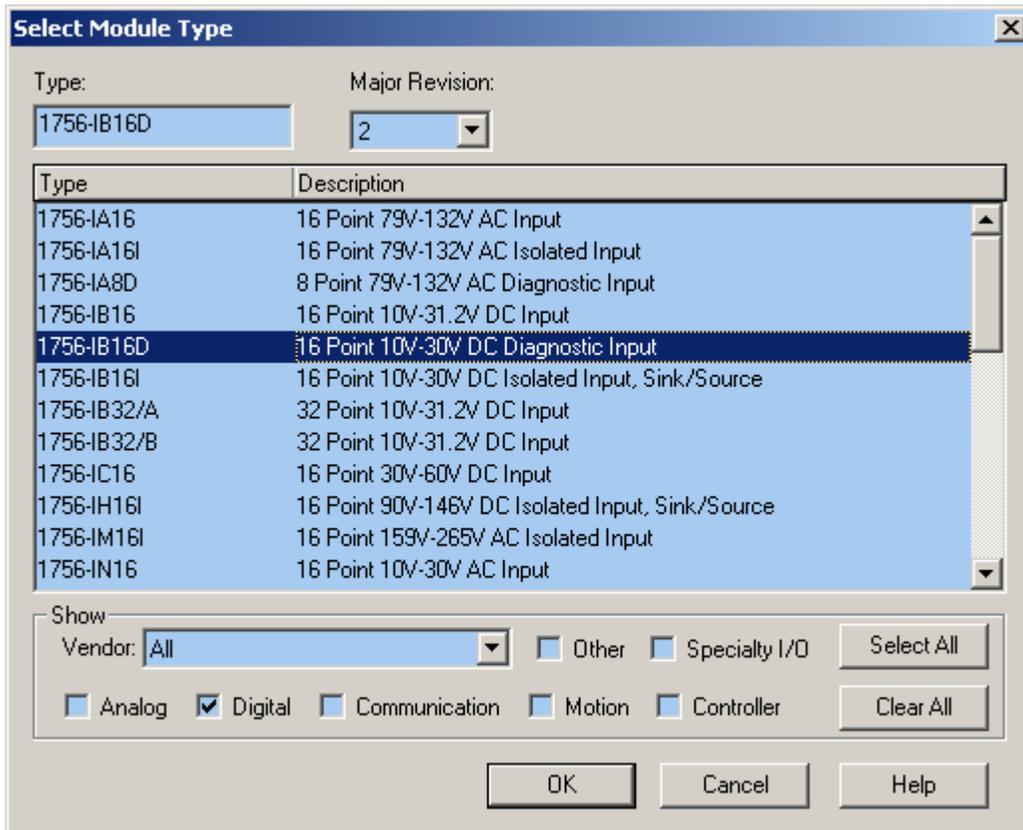
确定你的 CPU 在第三槽位。实际上 CPU 不受槽位限制。

4) 点击 OK。

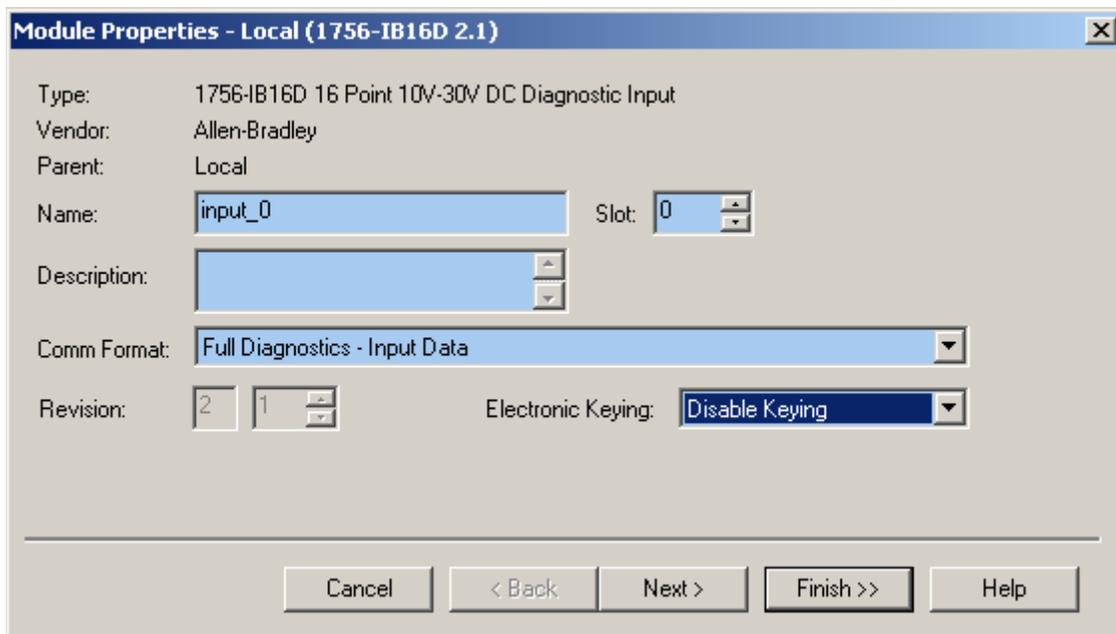
5) 树形工程管理



5) 右键点击 I/O configuration。选择 New Module。



单击 OK。



Next.

Module Properties - Local:0 (1756-IB16D 2.1)

Requested Packet Interval (RPI): 10.0 ms (0.2 - 750.0 ms)

Inhibit Module

Major Fault On Controller If Connection Fails While in Run Mode

Module Fault

Cancel < Back Next > Finish >> Help

Next

Module Properties - Local:0 (1756-IB16D 2.1)

Identification

Vendor:

Product Type:

Product Code:

Revision:

Serial Number:

Product Name:

Status

Major Fault:

Minor Fault:

Internal State:

Configured:

Owned:

Module Identity:

Coordinated System Time (CST)

Timer Hardware:

Timer Sync'd:

Refresh Reset Module

Cancel < Back Next > Finish >> Help

Next

Module Properties - Local:0 (1756-IB16D 2.1)

Point	Enable Change of State		Enable Diagnostics for	Enable Diag. Latching
	Off -> On	On -> Off	Open Wire	
0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
6	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
7	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Points	Input Filter Time	
	Off -> On	On -> Off
0 - 7	1 ms	1 ms
8 - 15	1 ms	1 ms

Enable Change of State for Diagnostic Transitions

Cancel < Back **Next >** Finish >> Help

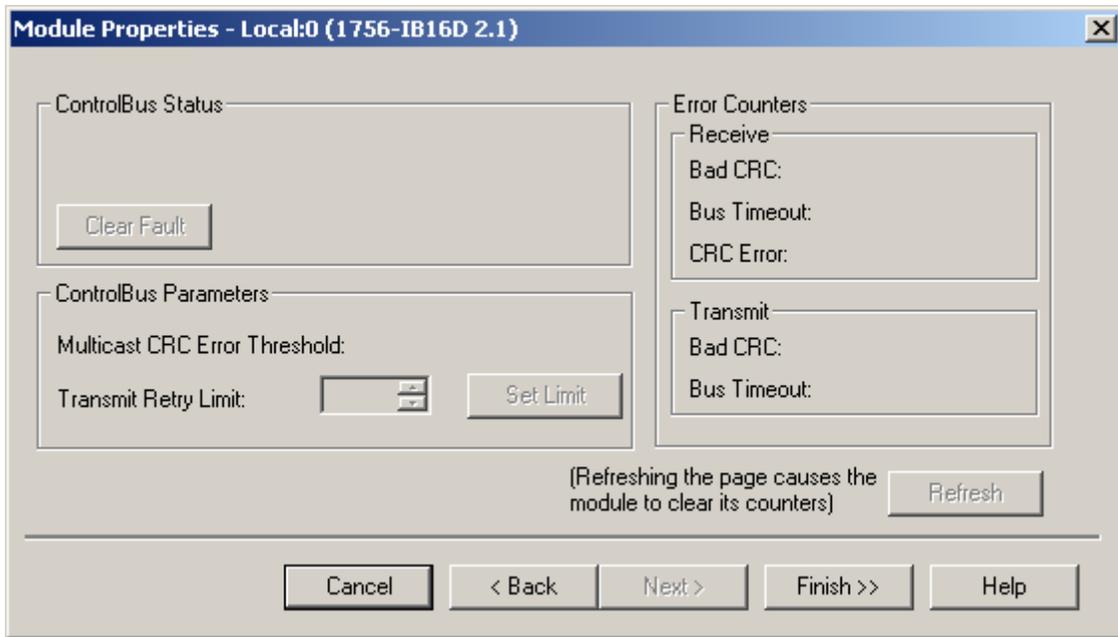
Next

Module Properties - Local:0 (1756-IB16D 2.1)

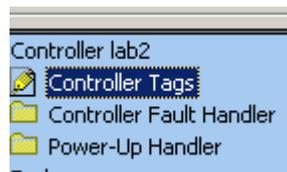
Point	Reset Latched Diagnostics
0	Reset
1	Reset
2	Reset
3	Reset
4	Reset
5	Reset
6	Reset
7	Reset
8	Reset
9	Reset

Cancel < Back **Next >** Finish >> Help

Next



Finish.

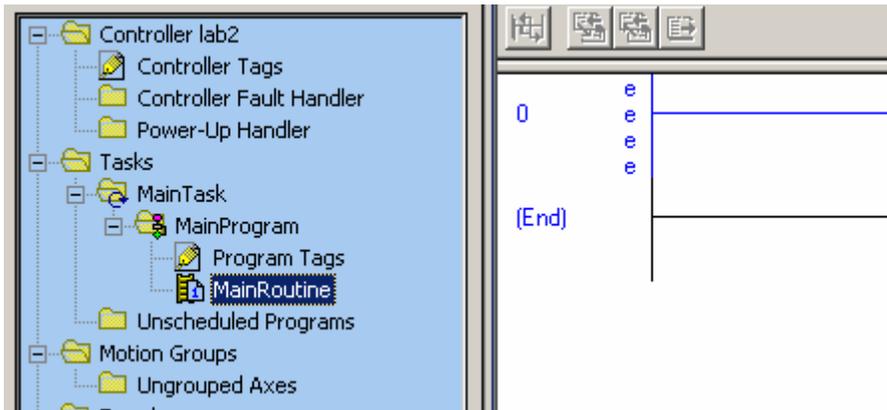


6) 右键点击， Controller Tags。你会发现，

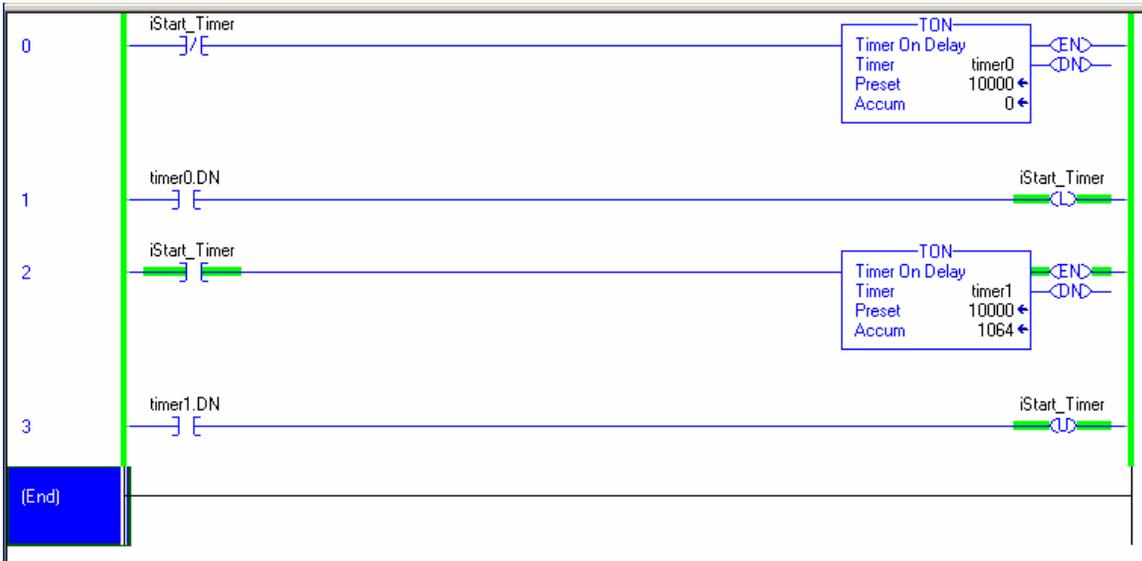
Tag Name	Value	Force Mask
[-] Local:0:I	{...}	{...}
[-] Local:0:I.Fault	2#0000_0000_0000...	
▶ [-] Local:0:I.Data	2#0000 0000 0000 0000 0000 0000 0000 0000	
[-] Local:0:I.CSTTimestamp	{...}	{...}
[-] Local:0:I.OpenWire	2#0000_0000_0000...	
[-] Local:0:C	{...}	{...}
[-] Local:0:C.DiagCOSDisable	0	
[-] Local:0:C.FilterOffOn_0_7	1	
[-] Local:0:C.FilterOnOff_0_7	1	
[-] Local:0:C.FilterOffOn_8_15	1	
[-] Local:0:C.FilterOnOff_8_15	1	
[-] Local:0:C.COSOnOffEn	2#0000_0000_0000...	
[-] Local:0:C.COSOffOnEn	2#0000_0000_0000...	
[-] Local:0:C.FaultLatchEn	2#0000_0000_0000...	
[-] Local:0:C.OpenWireEn	2#0000_0000_0000...	

系统自动为你生成了该模块数据。所有的模块信息都在你的掌握中，任你支配。

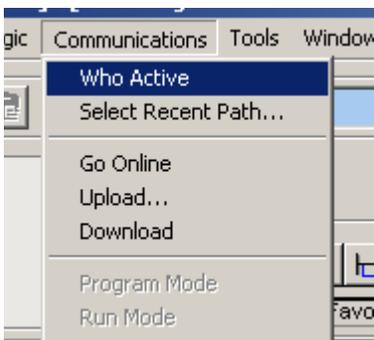
7) 开始你的第一个程序。点击 MainRoutine。



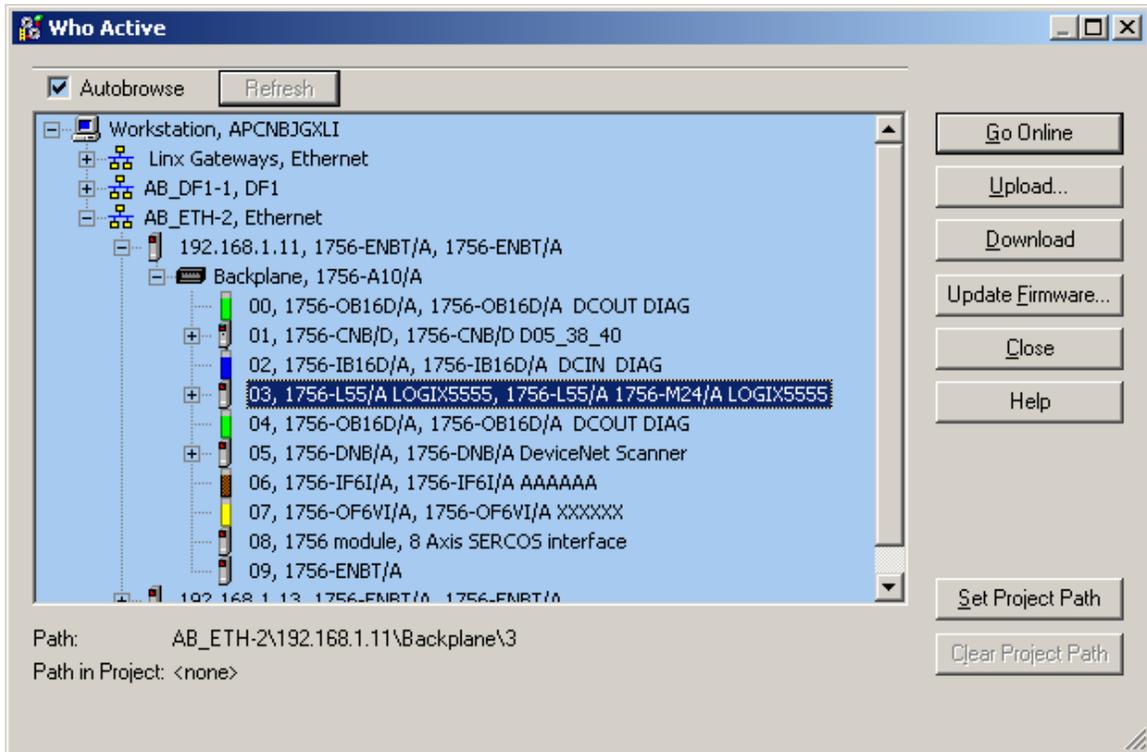
8) 自己做个简单程序如下。



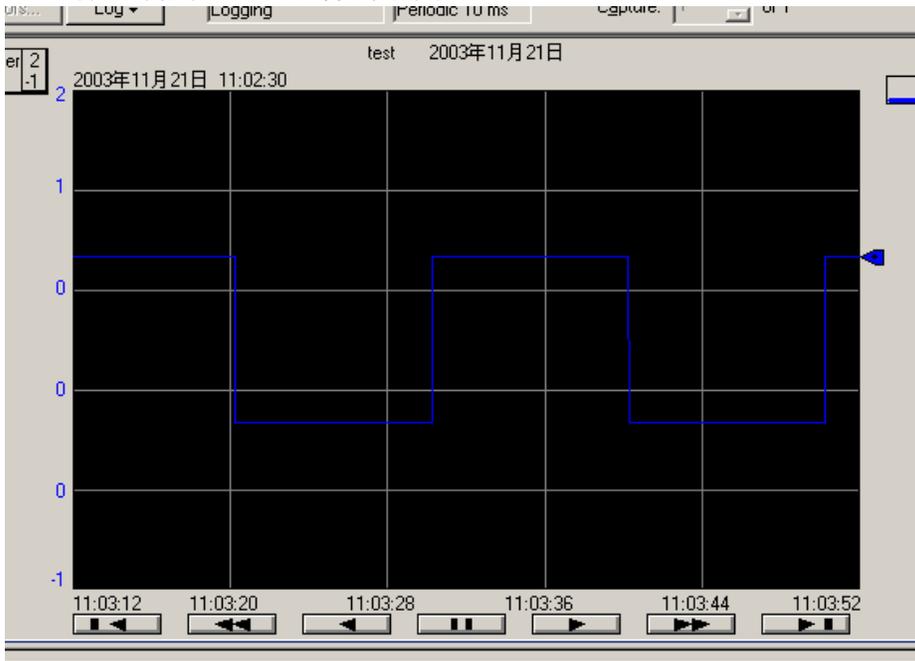
9) 下载程序，先选择 Who Active。



10) 选择下载路径如下。



10) 你可利用 Trends 看到下图。



总结:

1. 共同的 Logix 编程平台
2. 面向未来投资的，固件升级。

3. 并行编程，减少工程实施时间。
4. 别名，趋势图方便系统调试。