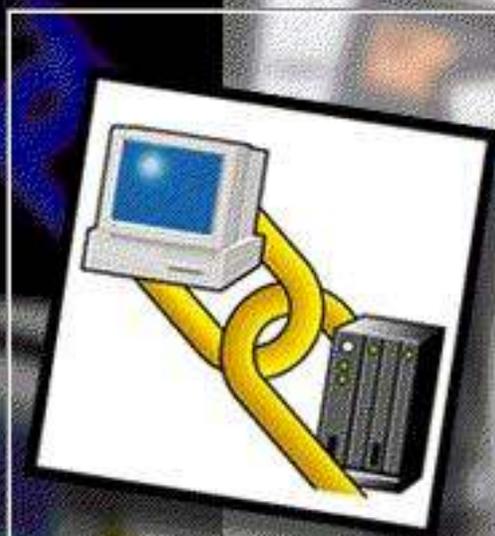


AB-PLC联机操作简介

RSLogix500

安装 RSLinx

RSLinx Professional: Version 2.1



RSLinx™ Version
2.1

For Rockwell Automation
Networks and Devices



This program is protected by U.S. and international
copyright laws as described in the About Box.

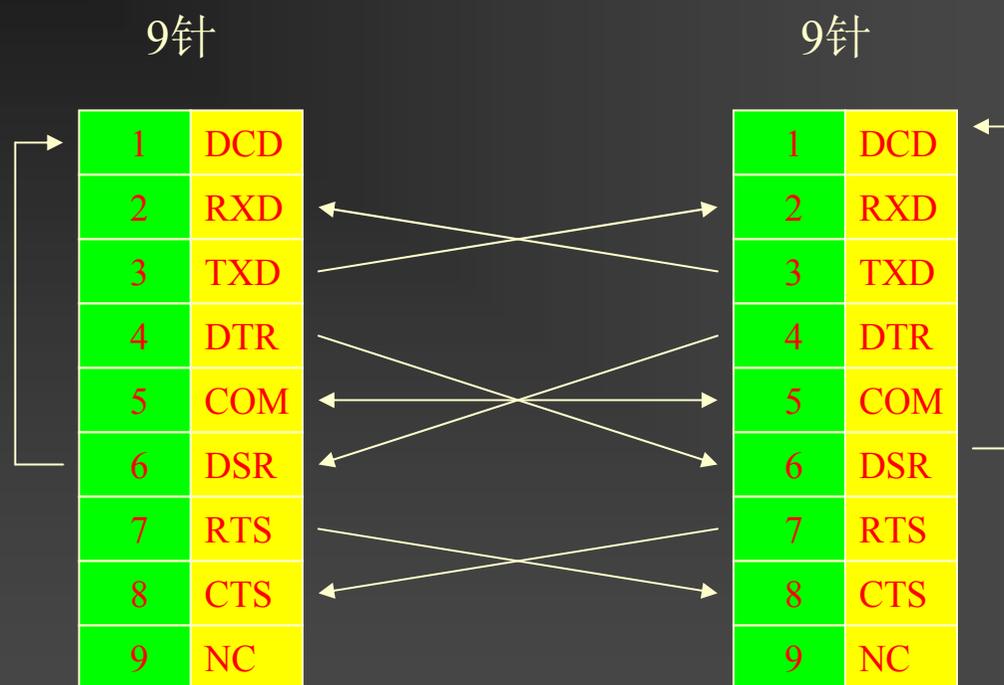
安装 RSLogix500

RSLogix 500 English r03.01.09



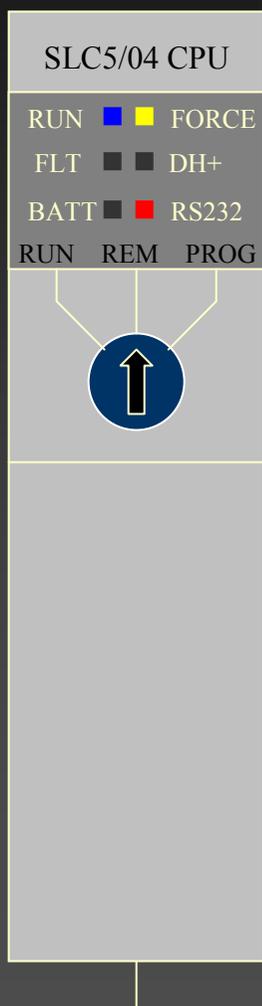
需要钥匙盘 ABKEY

制作编程电缆PC--PLC



应用1747-CP3电缆将SLC 5/03和SLC 5/04处理器
连接到IBM AT计算机

连接



1. 将制作好的数据线分别连接到PLC和PC的端口上
2. PLC上电
3. 将SLC5/04 CPU面板上的钥匙选择至“REM”位置
4. 启动个人PC



启动RSLinx

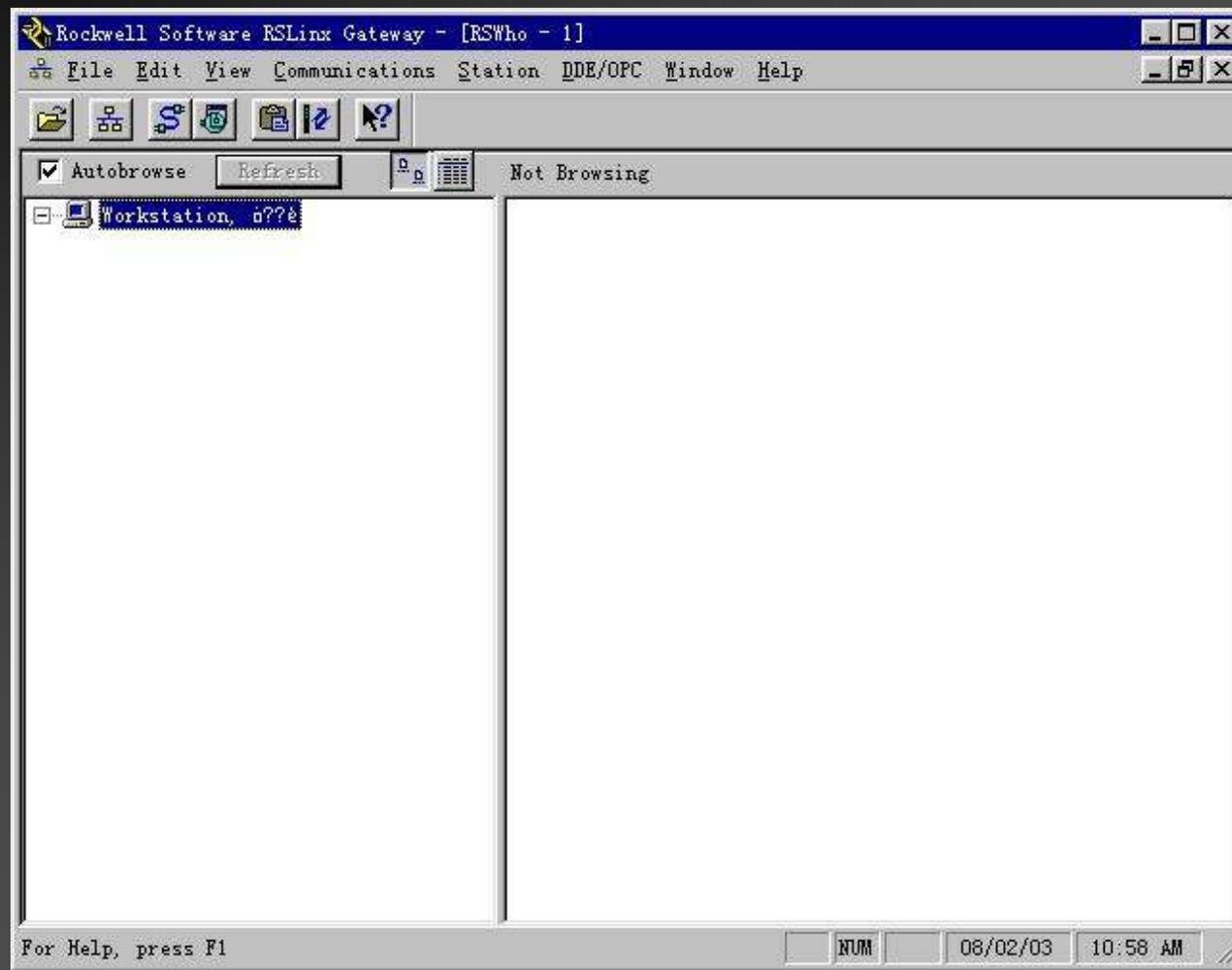


依次点击

开始 / 程序 / Rockwell Software / RSLinx

启动RSLinx

RSLinx的启动界面



//模拟

Rockwell Software RSLink Gateway [RSWho - 1]

File Edit View **Communications** Station DDE/OPC Window Help

RSWho

Configure Allen-Bradley DF1 Communications Device

Device Name: AB_DF1-2

Comm: COM1 Device: PLC-CHO

Baud Rate: 19200 Station Number: 00 (Octal)

Parity: None Error Checking: BCC

Stop Bits: 1 Protocol: Full Duplex

Auto-Configure 配置成功!

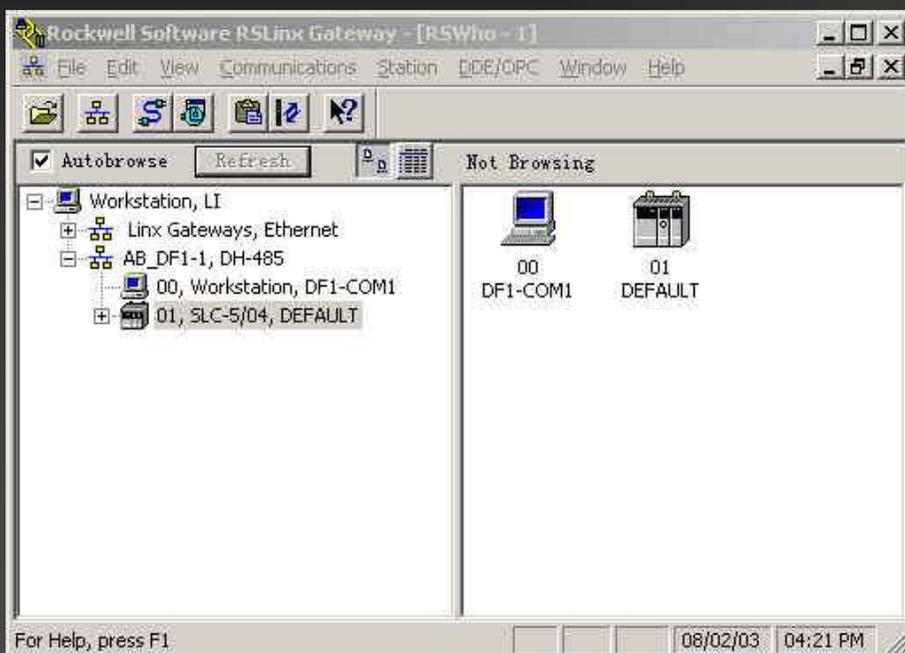
Use Modem Dialer Configure Dialer

Ok Cancel Delete Help

For Help, p 10:58 AM

RSLinx在线

一旦通讯配置成功，每次LINX启动后，PC将自动与PLC连接



在线状态



离线状态

LINK连接成功

当LINK连接成功后，我们除了在软件界面上可以监测到当前运行状态，同时，PLC的RS232指示灯也会间隔闪烁。此时，只要打开PLC应用程序，就可以进行上传/下载操作了。

启动RSLogix500



依次点击

开始 / 程序 / Rockwell Software / RSLogix 500English

启动RSLogix 500

RSLogix500的启动界面

The screenshot shows the RSLogix 500 software interface for a project named "起重碳~2.RSS". The interface is annotated with several callouts:

- 状态控制** (Status Control): Points to the top menu bar (File, Search, Comms, Tools, Window, Help).
- 工具栏** (Toolbar): Points to the toolbar containing various icons for file operations and editing.
- 指令集** (Instruction Set): Points to the instruction set dropdown menu, which is currently set to "User".
- 项目管理** (Project Management): Points to the Project Explorer on the left side of the window.
- 梯形图** (Ladder Diagram): Points to the main workspace displaying a ladder logic diagram.

The ladder logic diagram in the workspace shows two rungs:

- 控制接触器控制** (Control Contact Control): This rung contains three components: "主回路电源开" (Main Circuit Power On) with input I:1, "主回路电源关" (Main Circuit Power Off) with input I:1, and "主回路电源接触器" (Main Circuit Power Contact) with output O:8. The components are labeled with "1746-IM16" and "1746-OB16".
- 夹具打开检测** (Fixture Opening Detection): This rung contains two components: "夹具打开检测" (Fixture Opening Detection) with input I:0 and "夹具开指示" (Fixture Open Indicator) with output O:7. The components are labeled with "1746-IM16" and "1746-OB16".

At the bottom of the window, there is a status bar with the text "For Help, press F1" and a data field showing "XREF 2:0000 APP READ".

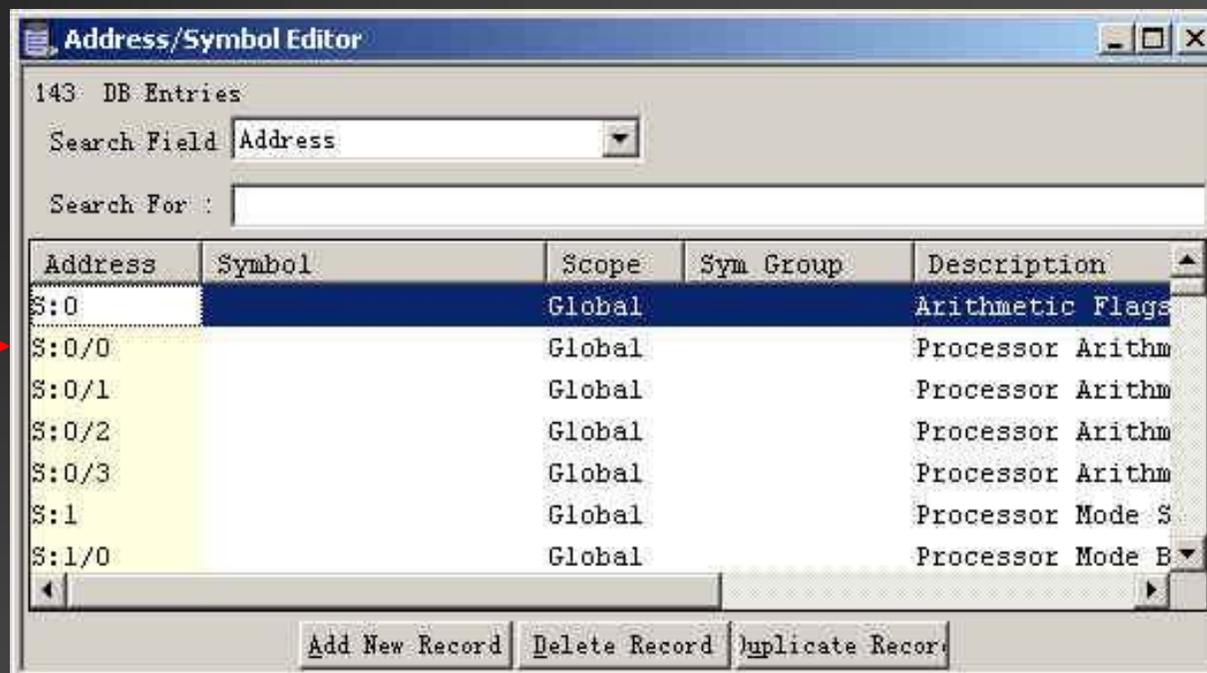
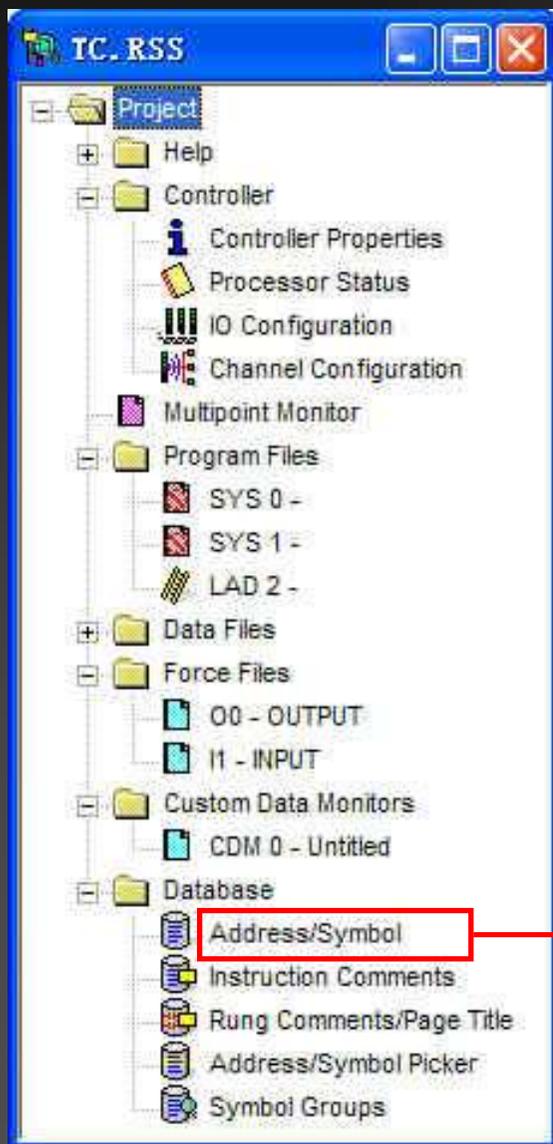
I/O自动配置

The screenshot displays the RSLogix 500 software interface. On the left, the 'Project' tree shows the 'IO Configuration' folder highlighted with a red box. A red line connects this folder to the 'I/O Configuration' dialog box on the right. In the 'I/O Configuration' dialog, the 'Racks' section shows three racks, with the first rack selected. A 'Read IO Config.' button is highlighted with a red box. Below this, a 'Read IO Configuration from Online Processor' dialog box is open, showing fields for 'Driver' (AB_DF1-1), 'Route' (local), and 'Processor Node' (1). A 'Read IO Config.' button at the bottom of this dialog is also highlighted with a red box. The 'Current Cards Available' table on the right lists various modules.

Part #	Description
1746-I*8	Any 8pt Discrete Input Module
1746-I*16	Any 16pt Discrete Input Module
1746-I*32	Any 32pt Discrete Input Module
1746-O*8	Any 8pt Discrete Output Module
1746-O*16	Any 16pt Discrete Output Module
	Any 32pt Discrete Output Module
	AMCI Series 1500 Resolver Modul
	AMCI Series 1561 Resolver Modul
	BASIC Module - 500 - 5/01
	BASIC Module - MO/MI capable
	Node Adapter Module (1/4 Rack)
	Node Adapter Module (1/2 Rack)
	Node Adapter Module (3/4 Rack)
	Node Adapter Module (Full Rack)
	Distributed I/O Scanner-7 I/O B
	Distributed I/O Scanner-30 I/O
	Fast Analog 2 Ch In/2 Ch Curren
	Fast Analog 2 Ch In/2 Ch Volt.
	Single Axis Motion Control
	With Speed Control Mod...

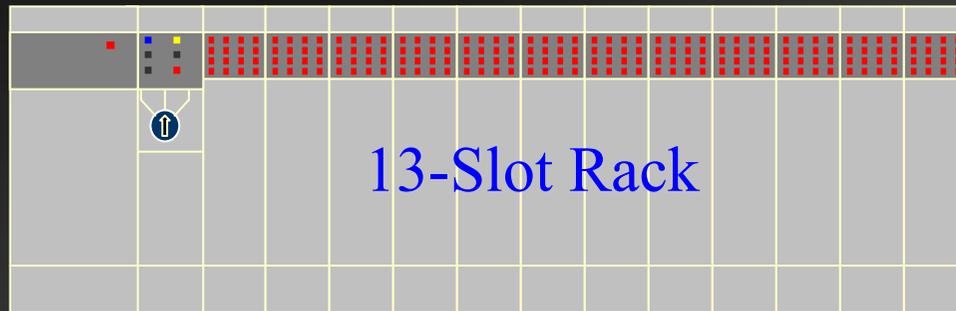
联机状态下，RSLogix500可以自动读出PLC机架上各模块的型号。

添加注释



为了提高程序的可阅读性，为编程和日后的维护更加方便，我们有必要在写程序之前对地址进行正确、简单的描述。

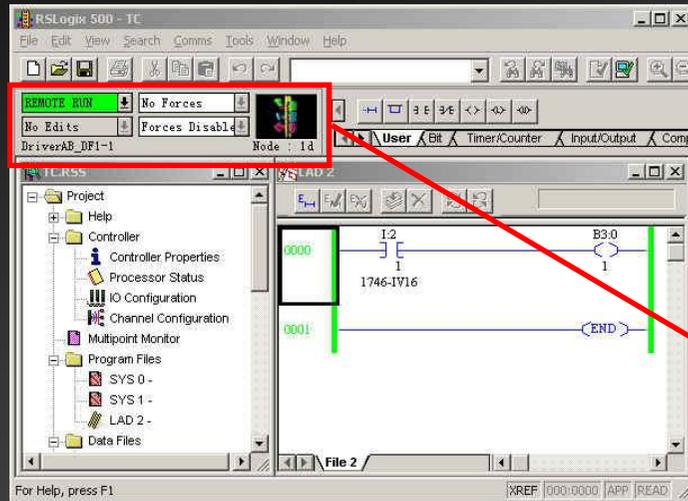
访问地址



12#	16-Output	访问地址	$\alpha:12/0 \sim \alpha:12/15$
11#	16-Output	访问地址	$\alpha:11/0 \sim \alpha:11/15$

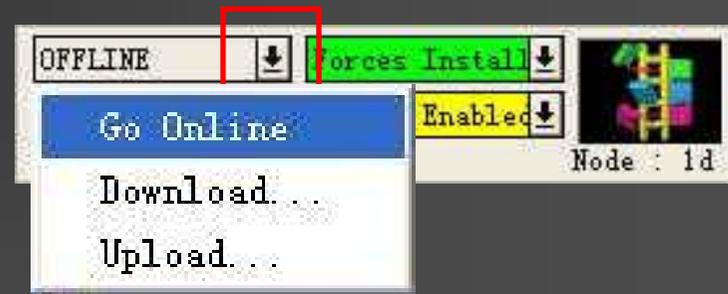
03#	16-Input	访问地址	$I:3/0 \sim I:3/15$
02#	16-Input	访问地址	$I:2/0 \sim I:2/15$
01#	16-Input	访问地址	$I:1/0 \sim I:1/15$
00#	CPU		
	POWER		

ON LINE



1 打开用户程序

2 点击状态控制区OFFLINE下拉项



3 选种 GO Online

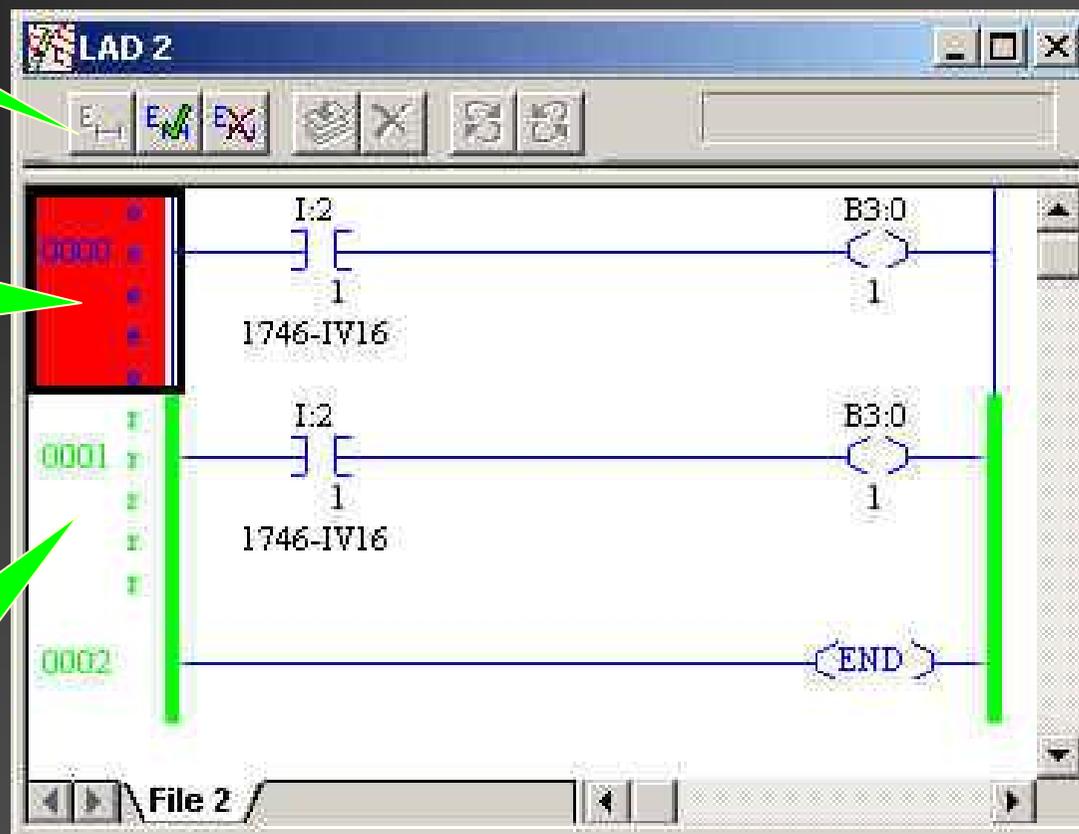
4 第一次上线时，需要首先下载

在线编辑

2 单击
Edit

1 将鼠标移至需要编辑程序段的行首，单击

3 进入编辑状态后，产生一个新的替换行“e”，原程序以只读方式“r”继续运行

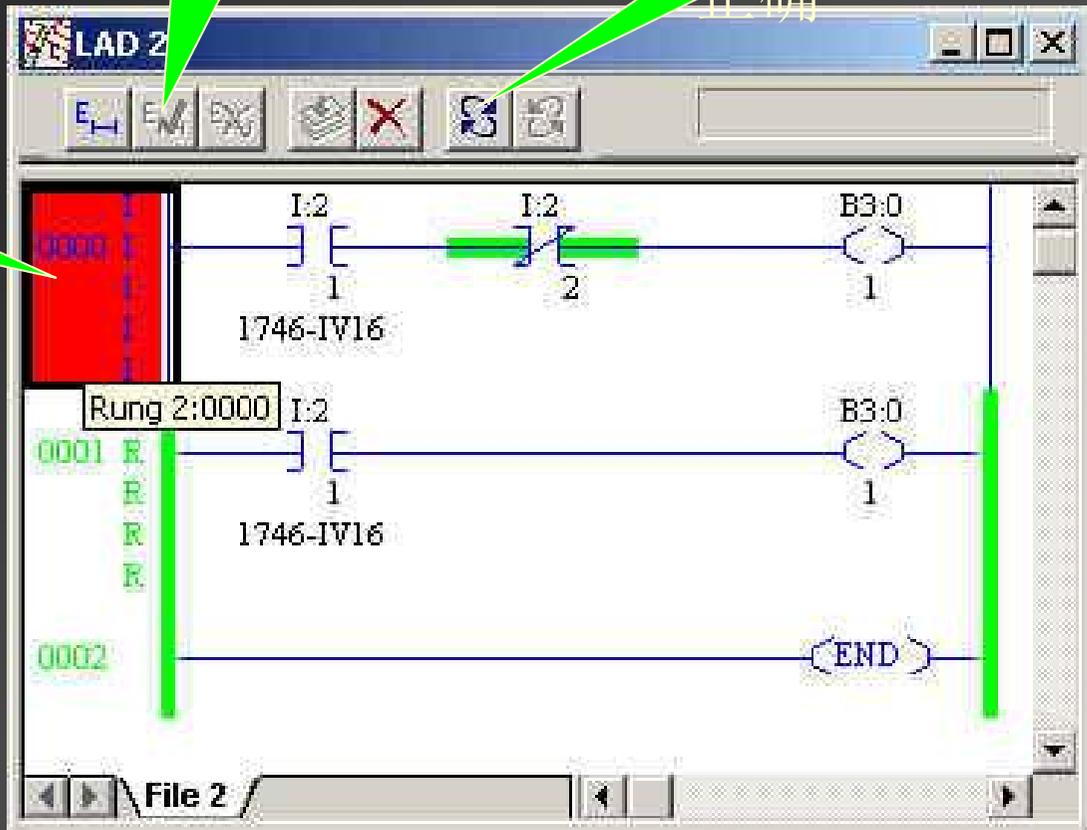


在线编辑

4 修改完成后“校验”

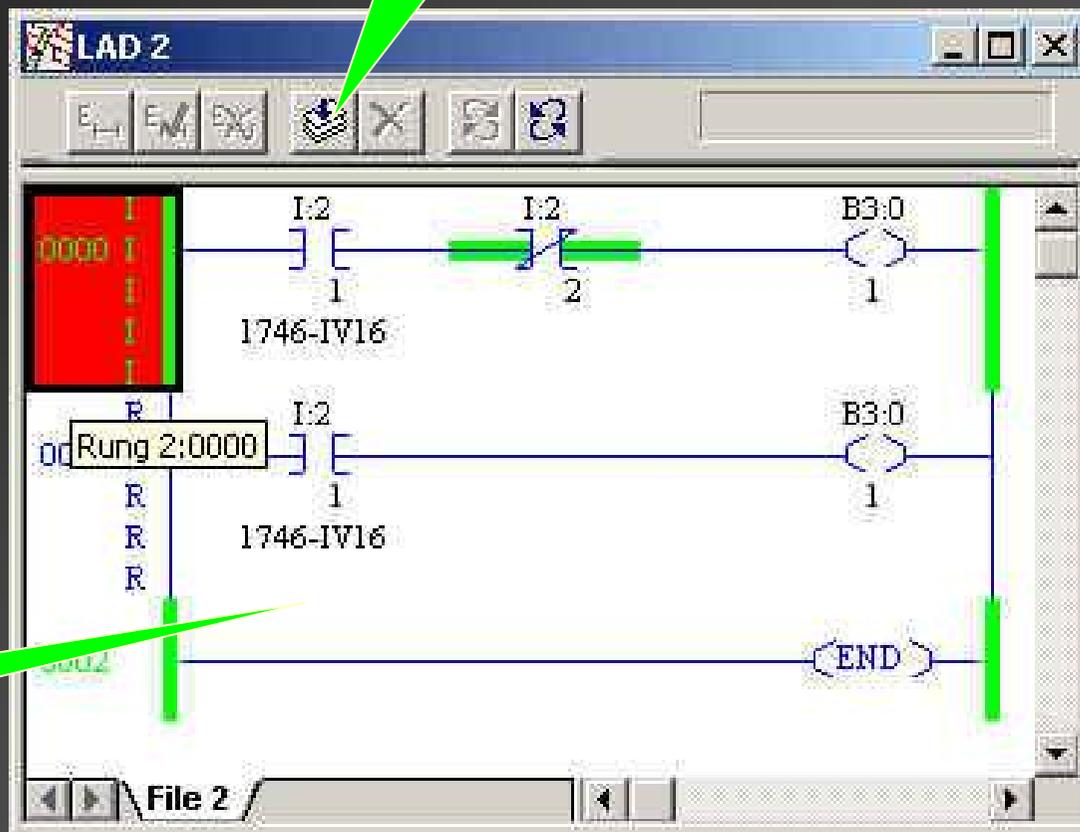
6 试运行，测试程序是否正确

5 程序状态符变为“T”



在线编辑

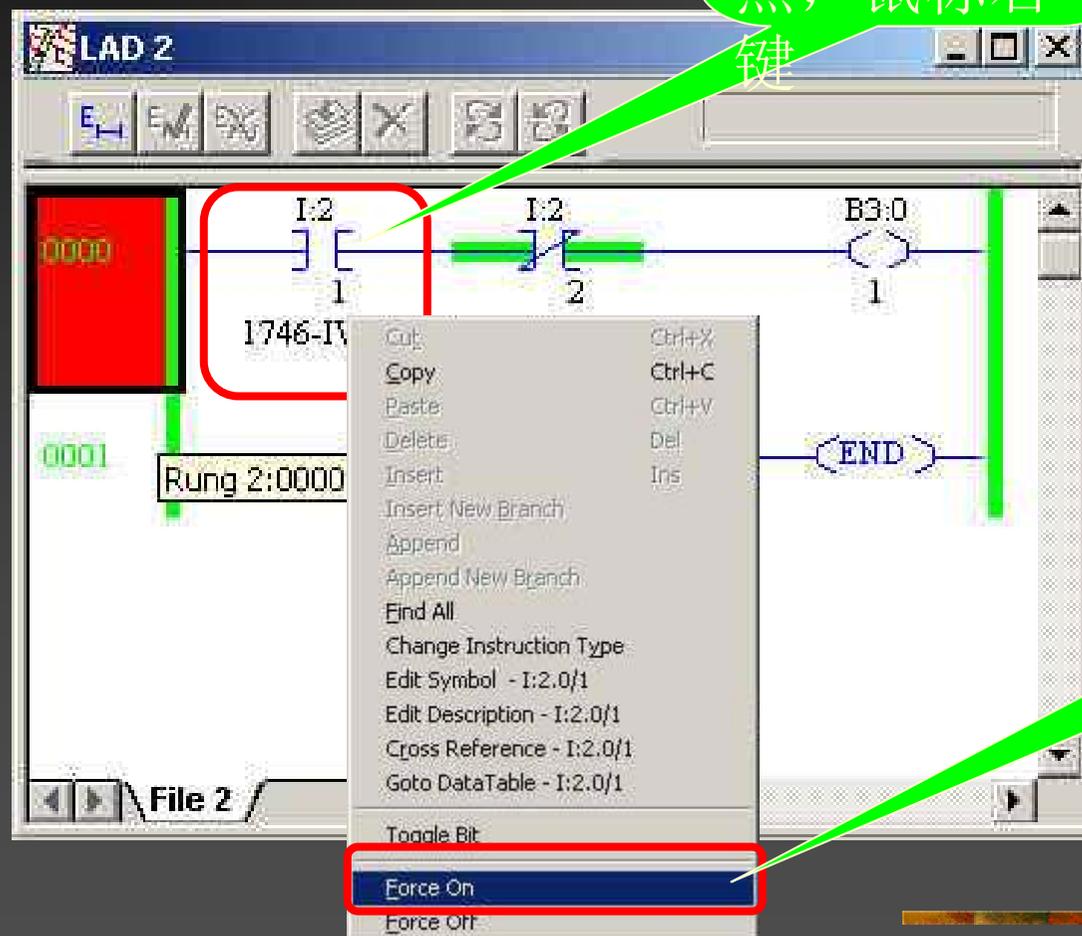
7 程序替换



8 完成

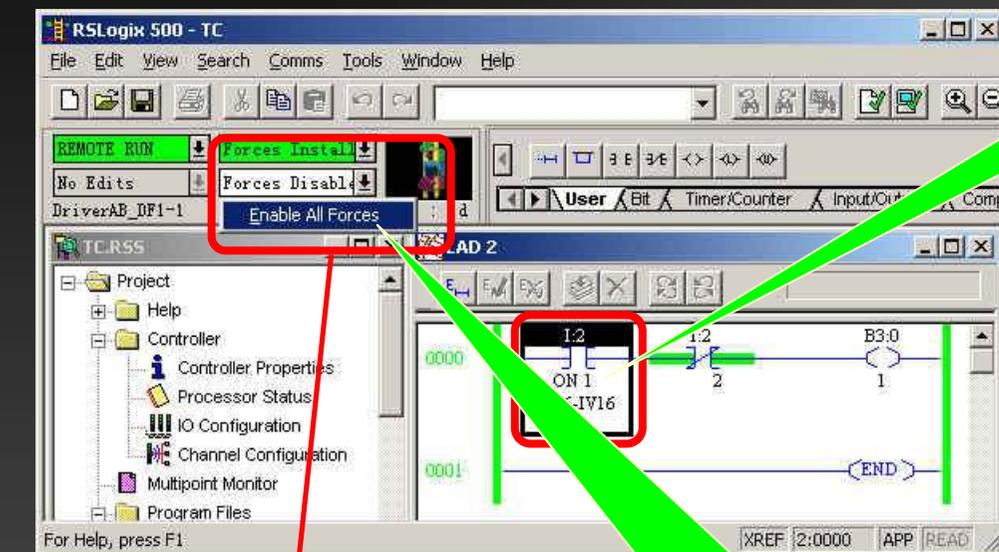
FORCE

1 选种需要
强制的接
点，鼠标右
键



1 选择
Force On

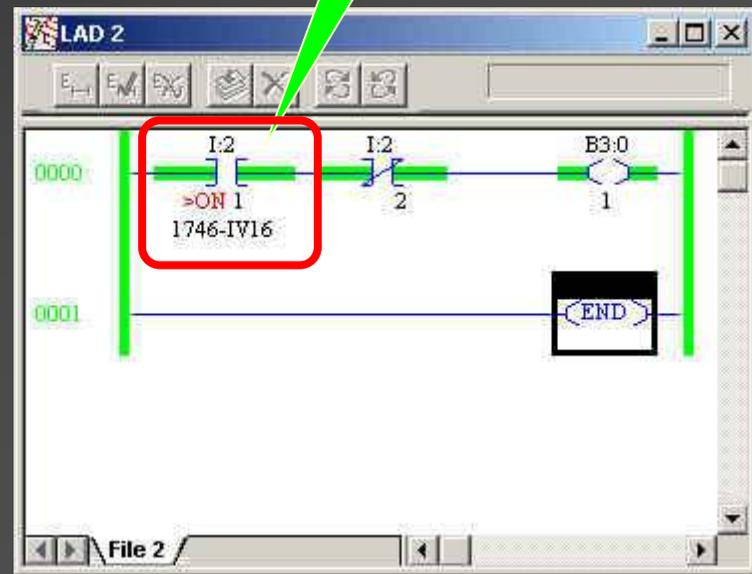
FORCE 激活



Force On 后的效果

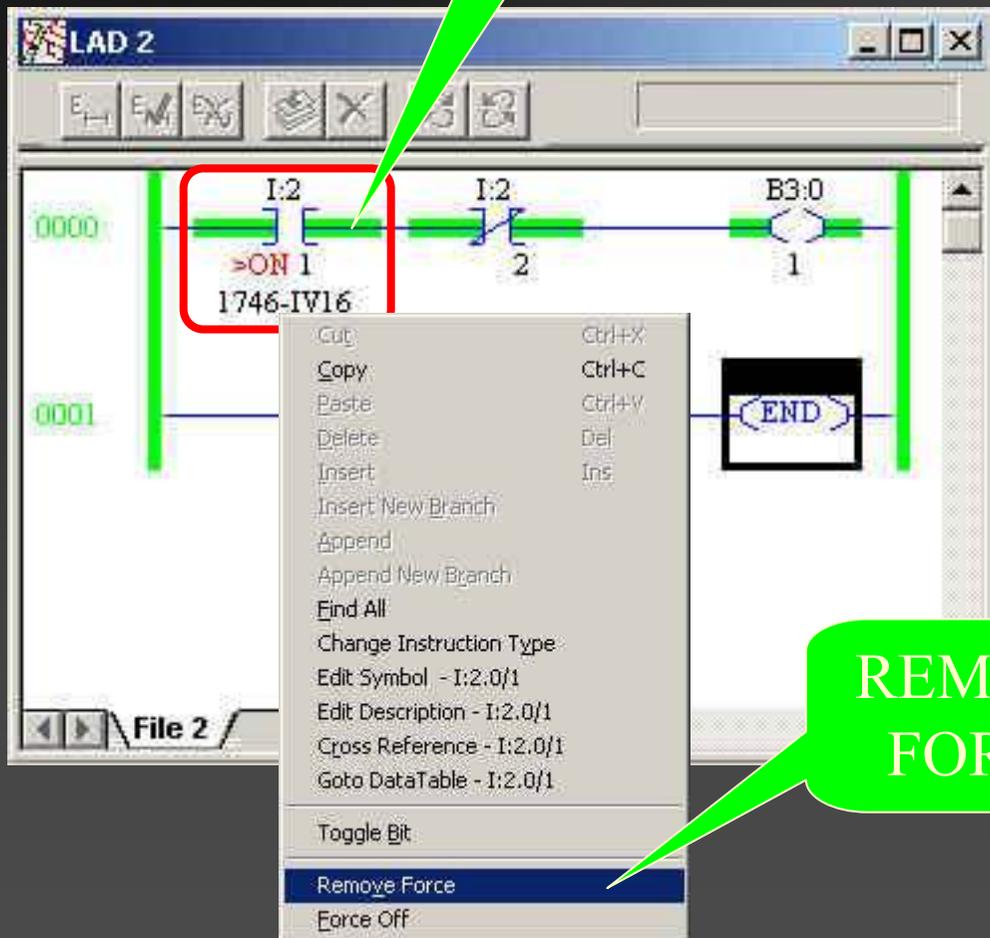
强制生效

要使Force生效，必须激活Force



FORCE取消

右键



REMOVE FORCE

单个取消

全部取消



END

END

