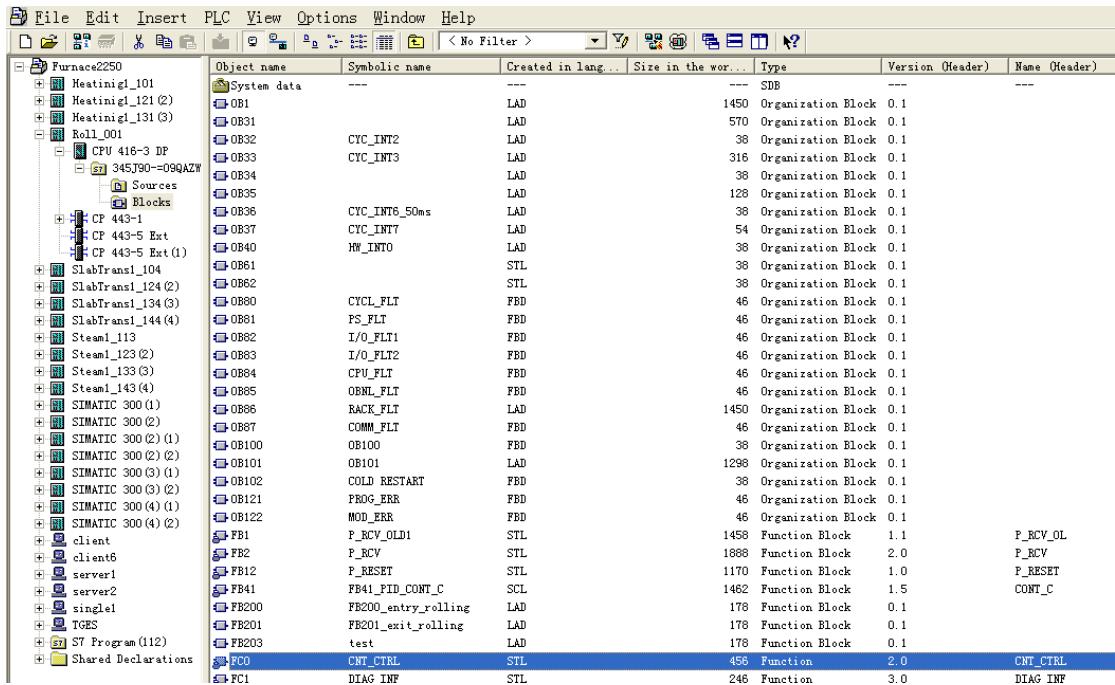


STEP7 程序修改注意事项-赵根海

1、程序块在 CPU 下面，选中 OB1 直接输入 FC、OB、DB、FB 号可

直接定位；



The screenshot shows the SIMATIC Manager interface with the following details:

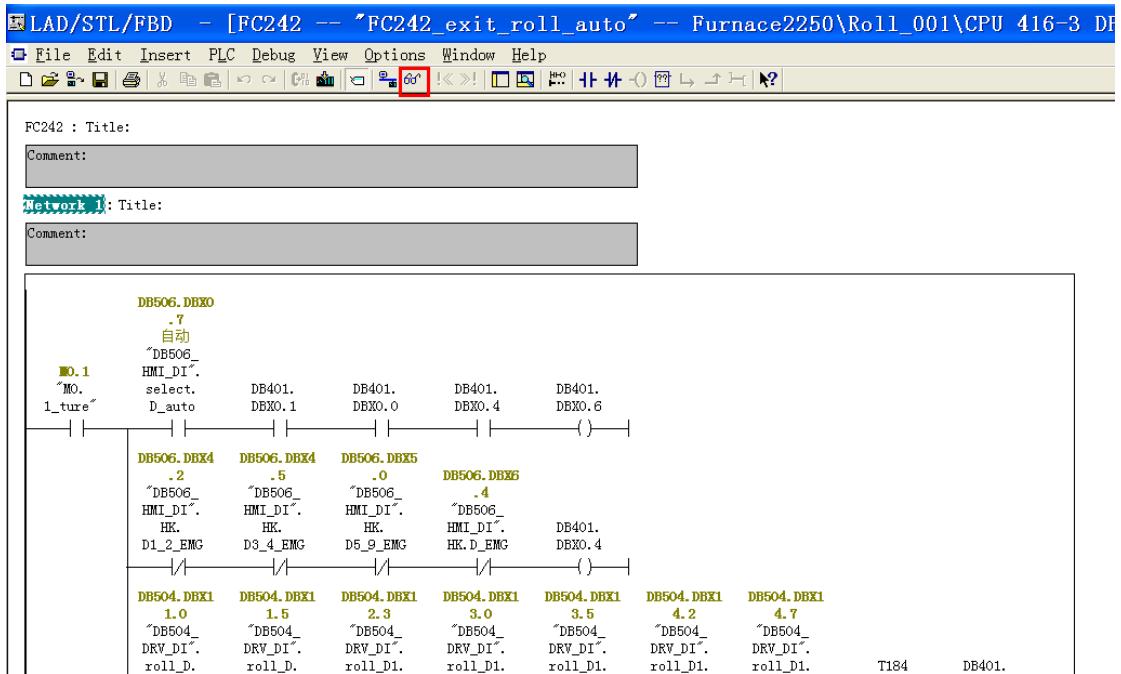
- Project Structure:** Furnace2250 > System data > OB1.
- Object List:** A table showing objects by type (System data, Blocks, Sources) and their properties (Object name, Symbolic name, Type, Version (Header), Name (Header)).

Object name	Symbolic name	Type	Version (Header)	Name (Header)
System data	---	---	---	---
OB1	LAD	1450 Organization Block 0.1	P_OB1	
OB31	LAD	570 Organization Block 0.1	P_OB31	
OB32	LAD	38 Organization Block 0.1	P_OB32	
OB33	LAD	316 Organization Block 0.1	P_OB33	
OB34	LAD	38 Organization Block 0.1	P_OB34	
OB35	LAD	128 Organization Block 0.1	P_OB35	
OB36	CYC_INT6_50ms	38 Organization Block 0.1	P_OB36	
OB37	CYC_INT7	54 Organization Block 0.1	P_OB37	
OB40	HW_INTERRUPT	38 Organization Block 0.1	P_OB40	
OB61	STL	38 Organization Block 0.1	P_OB61	
OB62	STL	38 Organization Block 0.1	P_OB62	
OB80	CYCL_FLT	46 Organization Block 0.1	P_OB80	
OB81	FS_FLT	46 Organization Block 0.1	P_OB81	
OB82	I/O_FLT1	46 Organization Block 0.1	P_OB82	
OB83	I/O_FLT2	46 Organization Block 0.1	P_OB83	
OB84	CPU_FLT	46 Organization Block 0.1	P_OB84	
OB85	OBNL_FLT	46 Organization Block 0.1	P_OB85	
OB86	RACK_FLT	1450 Organization Block 0.1	P_OB86	
OB87	COMM_FLT	46 Organization Block 0.1	P_OB87	
OB100	FBD	38 Organization Block 0.1	P_OB100	
OB101	LAD	1298 Organization Block 0.1	P_OB101	
OB102	COLD_RESTART	38 Organization Block 0.1	P_OB102	
OB121	PROG_ERR	46 Organization Block 0.1	P_OB121	
OB122	MOD_ERR	46 Organization Block 0.1	P_OB122	
FB1	P_RCV_OLD1	1458 Function Block 1.1	P_F1	P_RCV_OLD1
FB2	P_RCV	1888 Function Block 2.0	P_F2	P_RCV
FB12	P_RESET	1170 Function Block 1.0	P_F12	P_RESET
FB41	FB41_PID_CONT_C	1462 Function Block 1.5	P_F41	FB41_PID_CONT_C
FB200	FB200_entry_rolling	178 Function Block 0.1	P_F200	FB200_entry_rolling
FB201	FB201_exit_rolling	178 Function Block 0.1	P_F201	FB201_exit_rolling
FB203	test	178 Function Block 0.1	P_F203	test
FC0	CNT_CTRL	456 Function 2.0	P_FC0	CNT_CTRL
FC1	DIAG_INF	246 Function 3.0	P_FC1	DIAG_INF

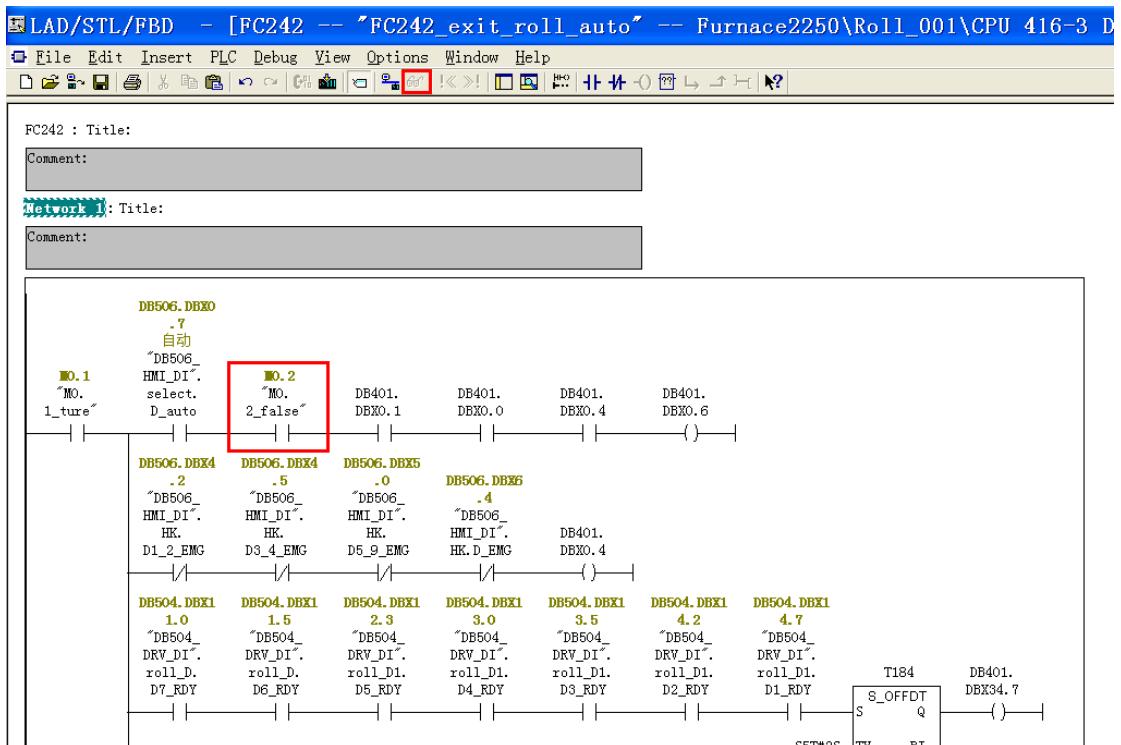
原则：下载程序前，一定保存并编译；

2、程序修改后一定要记着保存，否则在线按钮是灰色的；

修改前：



修改后：



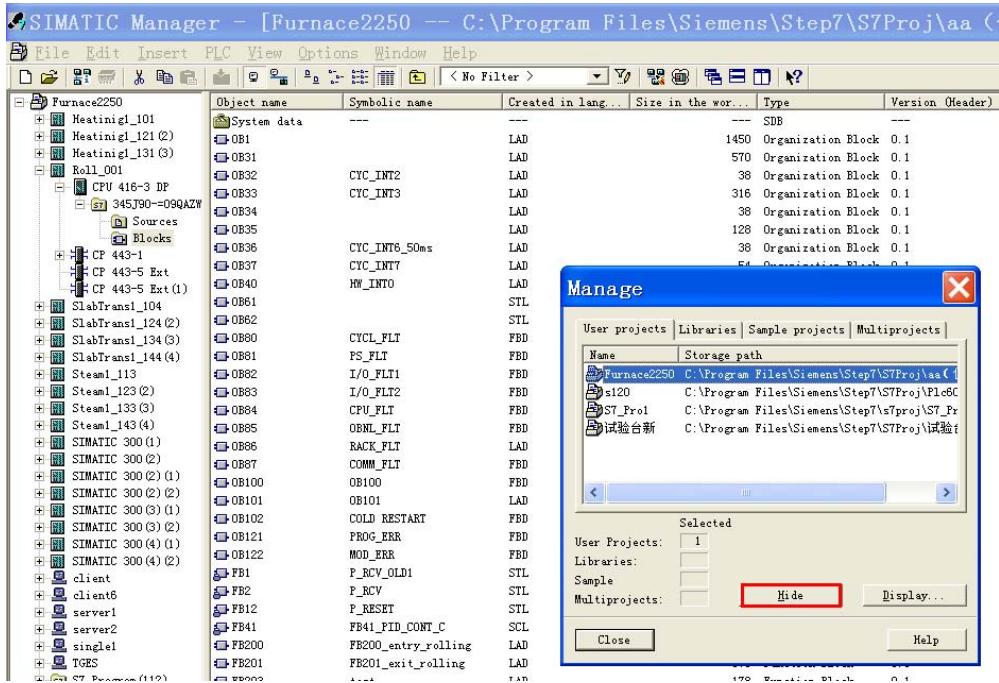
3、FC 块加//不调用块（语言：STL 形式）；

//CALL FC1 //不调用；

CALL FC1//调用；

4、一个电脑建议只打开一个项目；

1) 法一: File-->manage

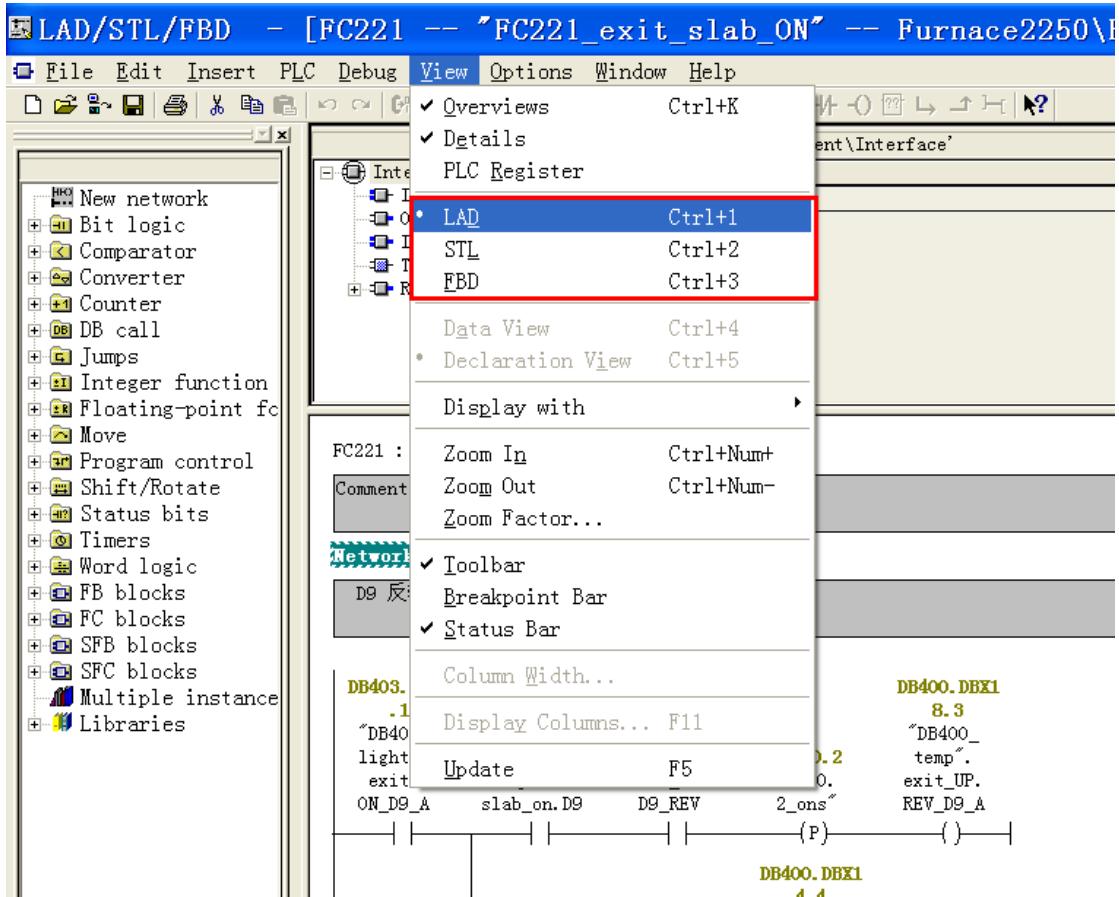


点击 Hide 将项目隐藏;

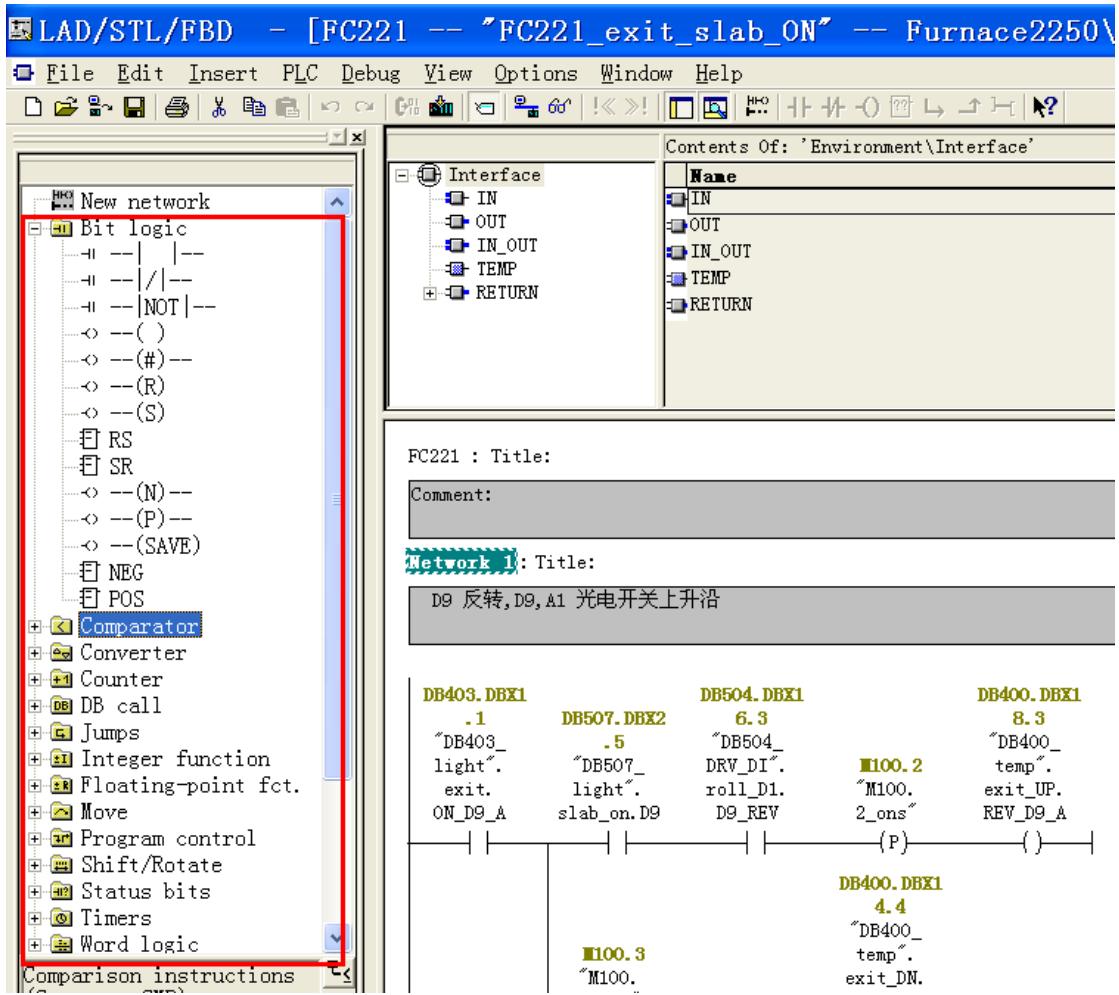
2) 法二: 找到项目根目录将项目删除;

5、一般修改程序点不能重复使用(像 LD20 临时变量除外, 可以重复使用), 尤其逻辑控制时容易出问题。

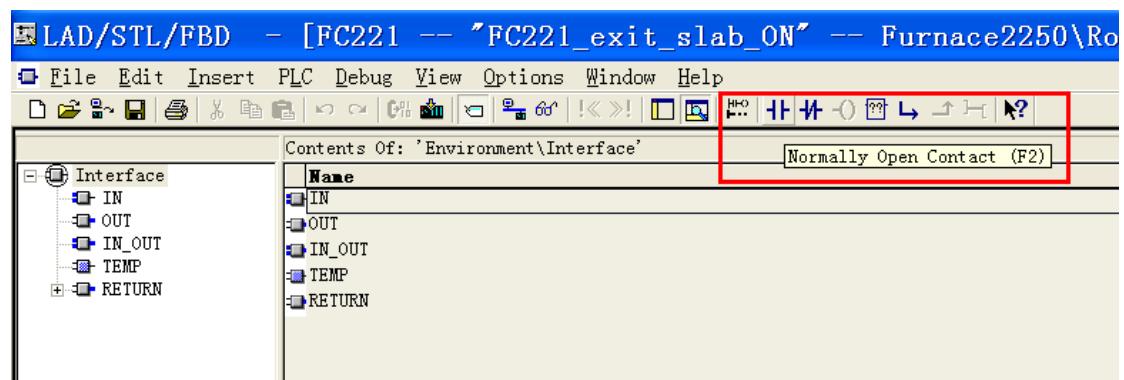
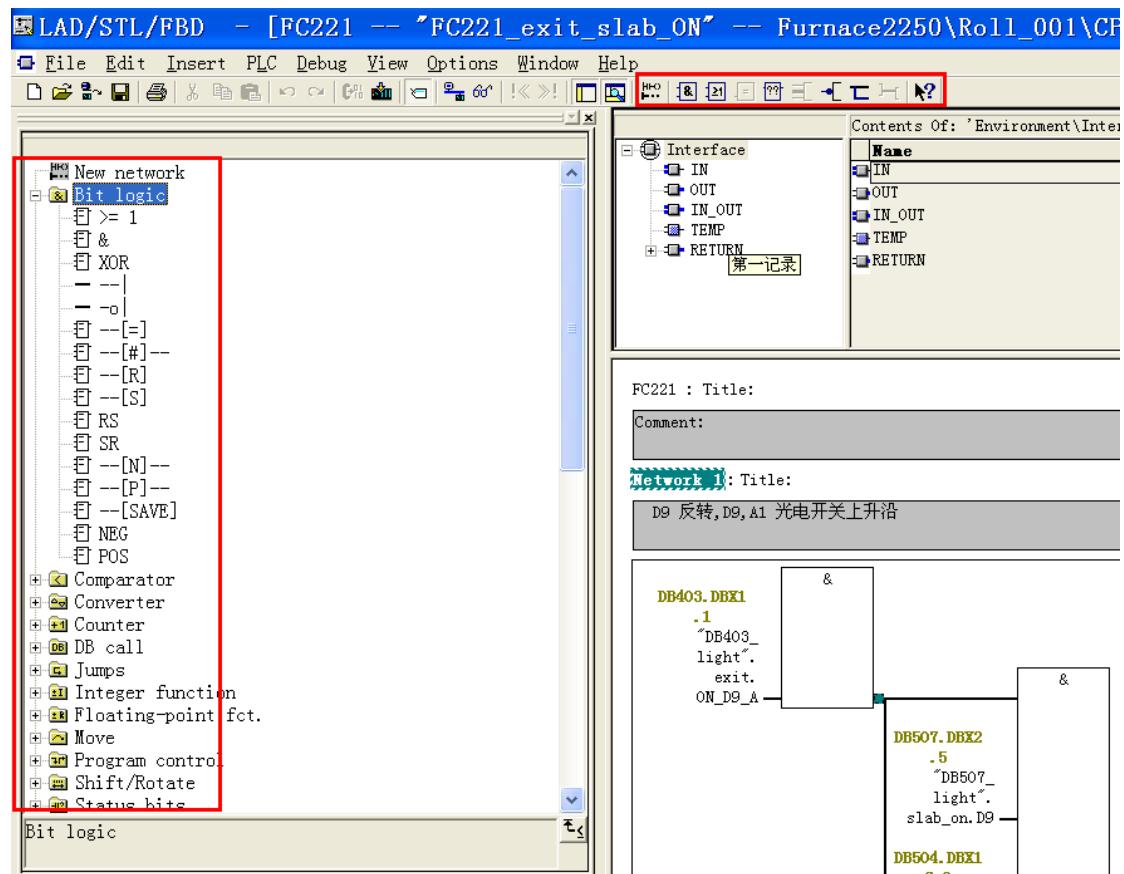
6、程序语言的切换



梯形图一定能转换为语句表；但语句表不一定能转换为梯形图；
Ctrl+1 组合键可以将语言转换为梯形图；类似的好多操作都有
快捷键；可以慢慢熟悉；

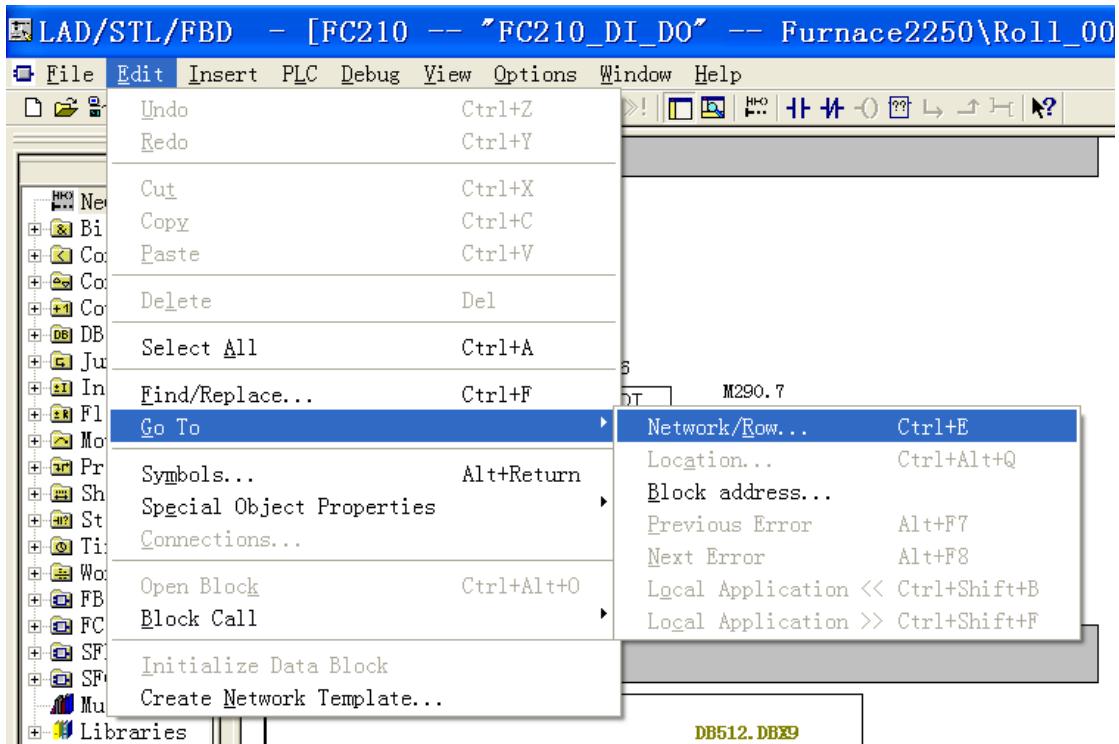


上图右侧是 LAD 所有的指令表，主要包括位指令，比较指令，转换指令，计数指令等等（注意切换成 FBD、STL 语言时，右侧显示的指令不同）；选中某一指令按下 F1 键可打开帮助；语言切换成 FBD 时显示的指令如下图：



上图红框（新建网络、插入常开常闭点、线圈、指令盒、分支等）修改程序时用的比较多；

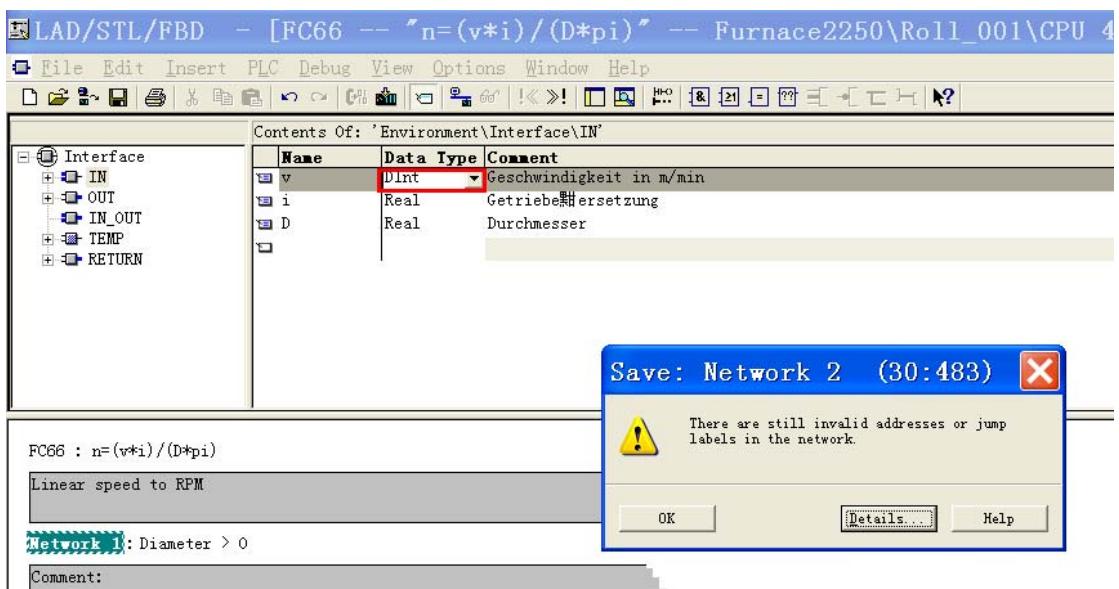
快速定位网络（快捷键 Ctrl+E）



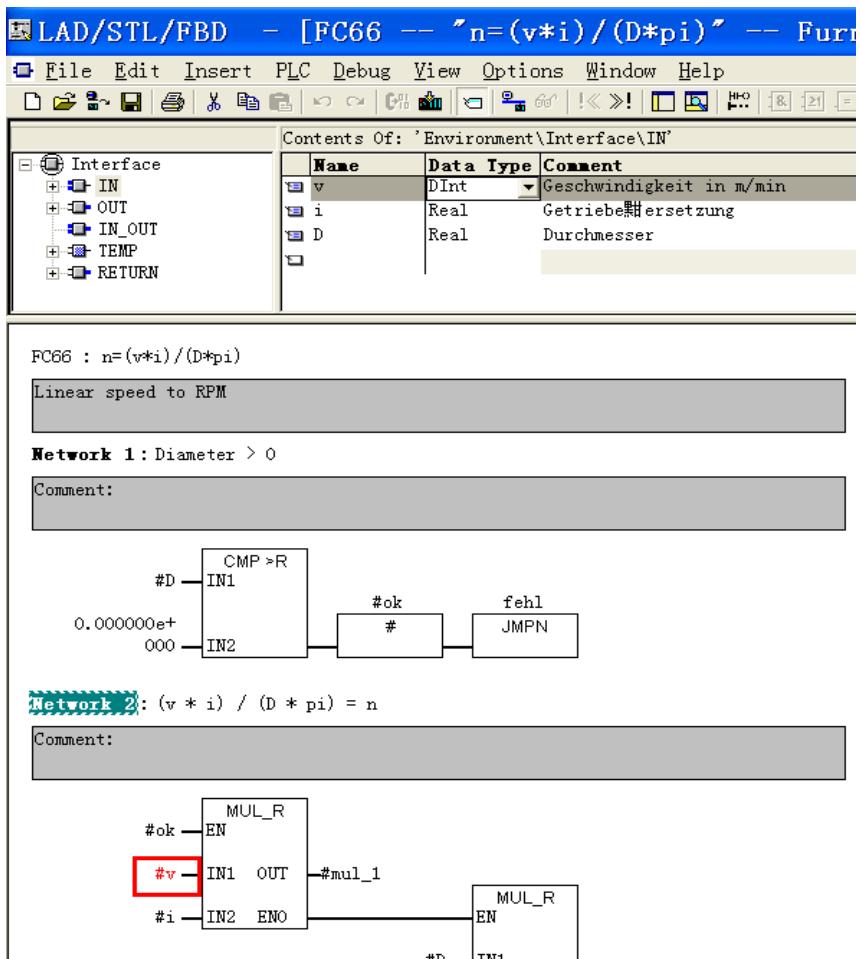
7、LAD语言对数据类型要求严格,数据类型一定要匹配,否则出错;修改程序时一定要注意:

如下图:

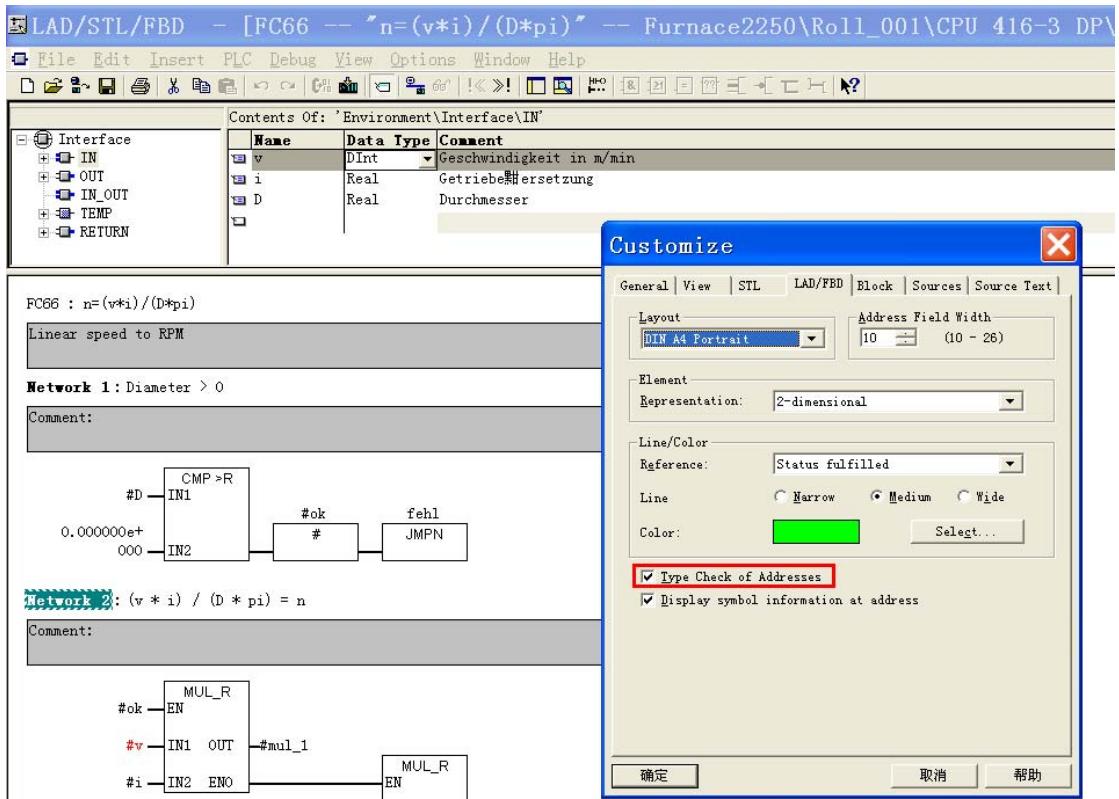
将V数据类型由Real改为Dint保存时出错;



相应的参数变为红色;



可以将下图的地址数据类型检查红色框前对勾去掉, 来消除错误
(不推荐);



8、对 FC、FB 块接口参数修改时，一定要对 FC、FB 块执行块更新；