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Rev: V2 4

: 2016 10 10

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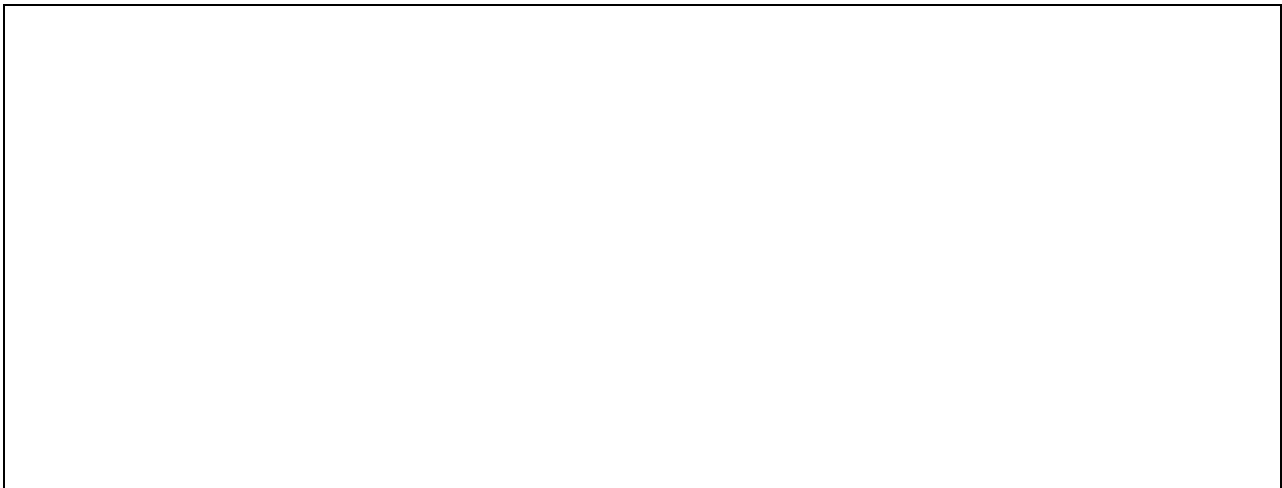
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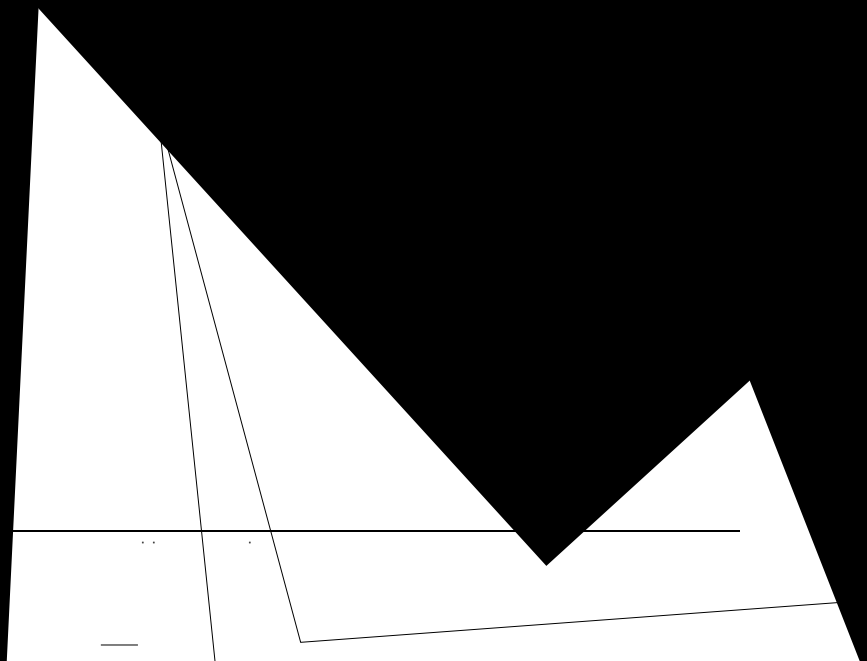


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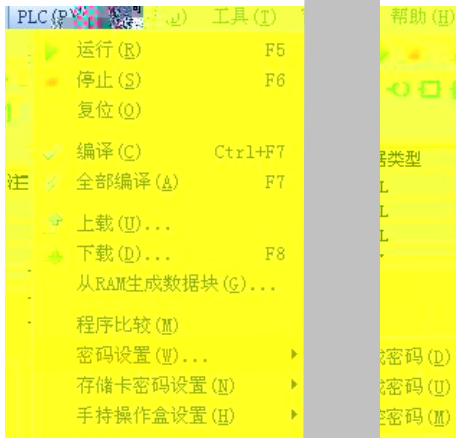
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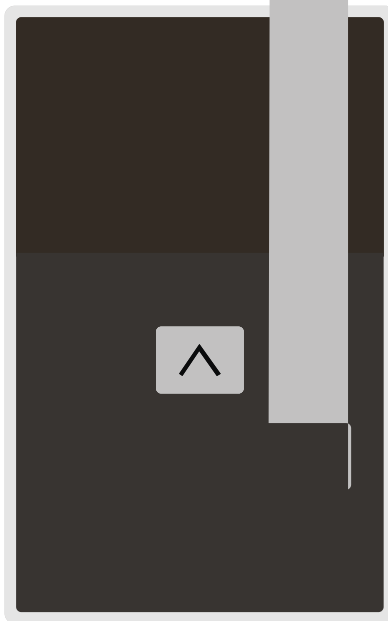
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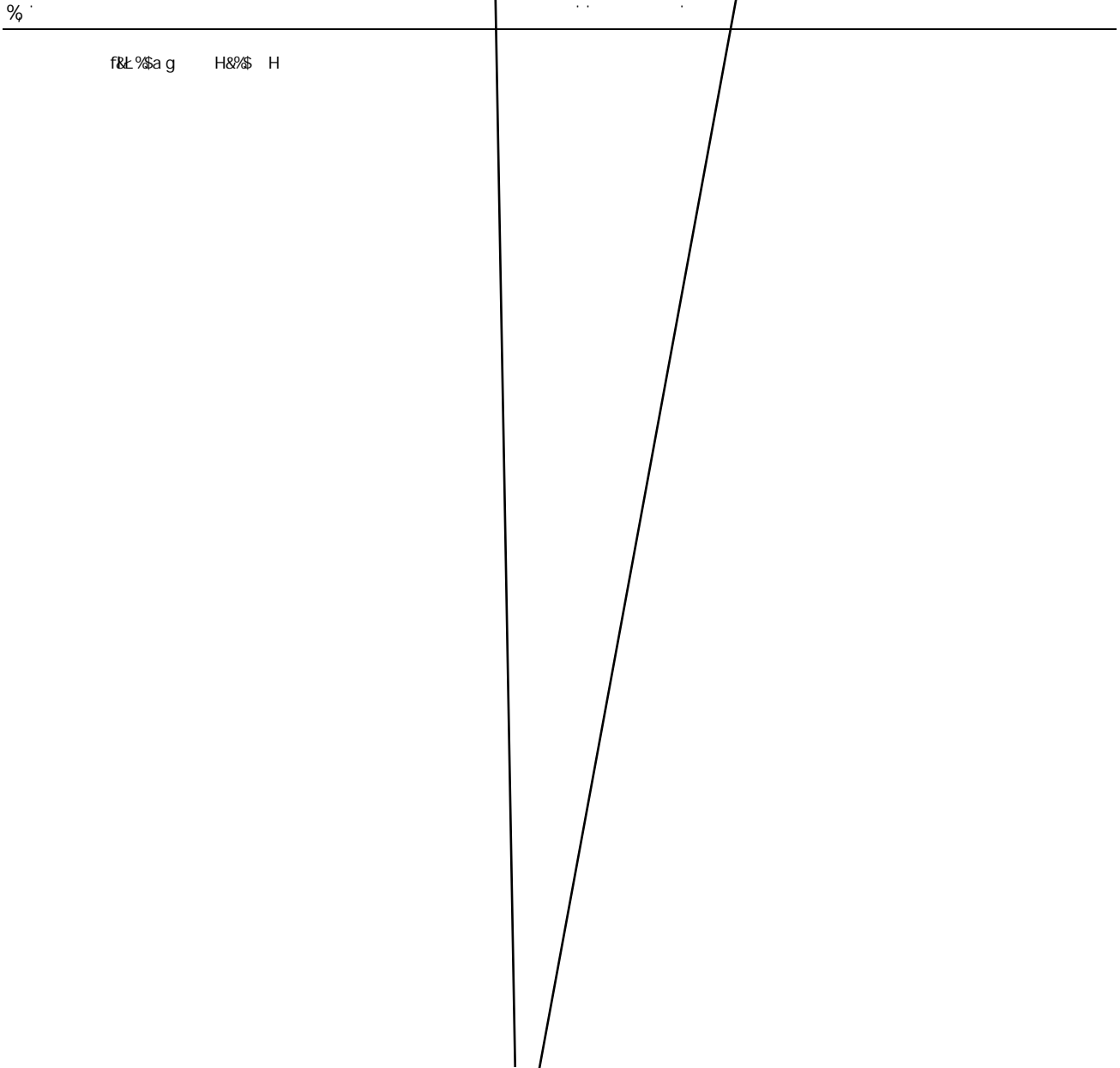
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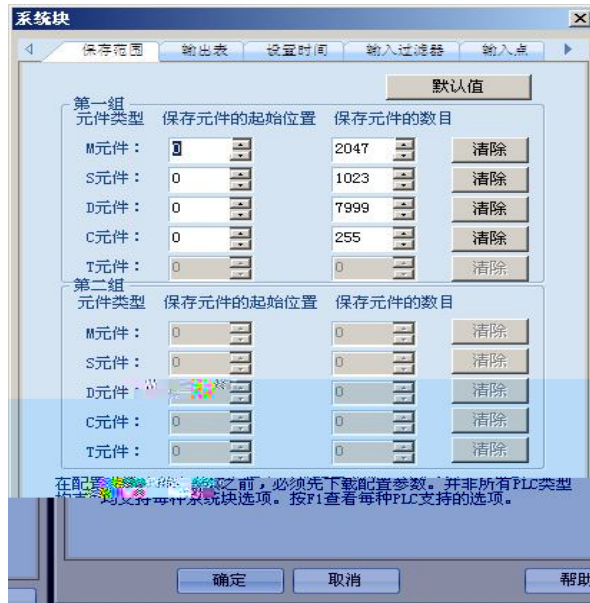
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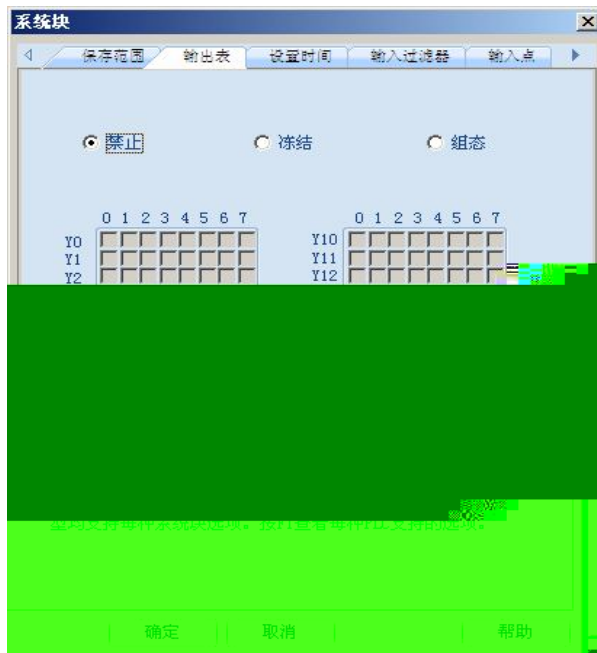
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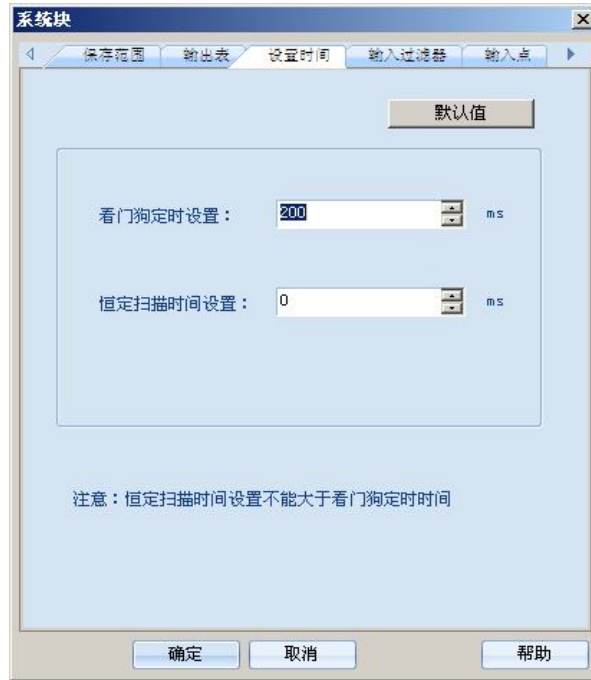
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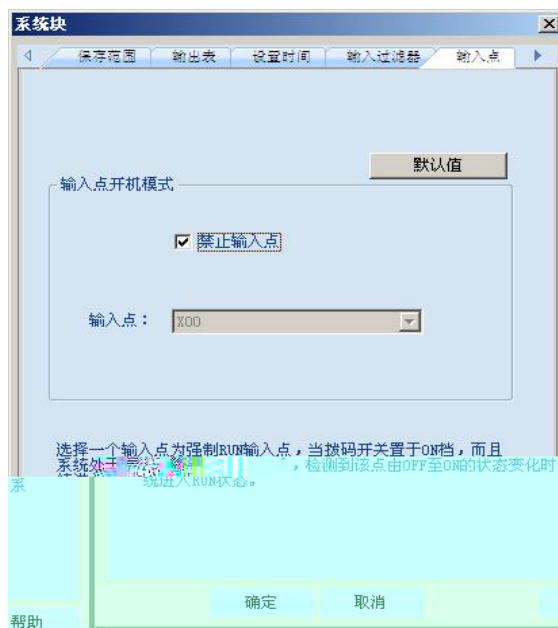
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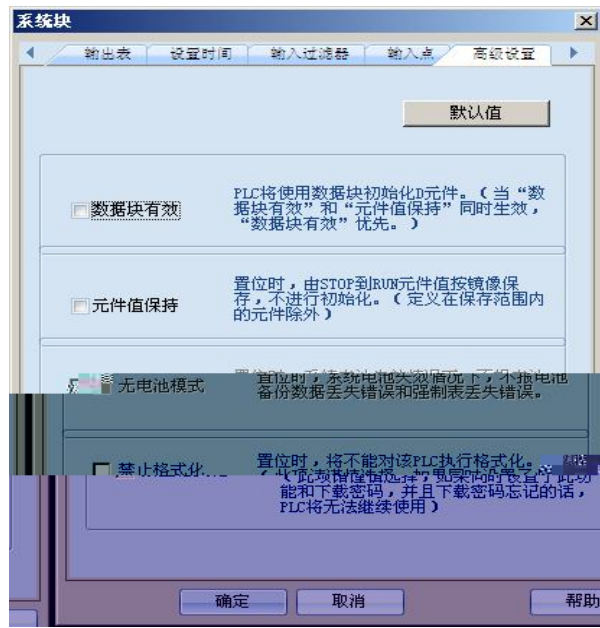
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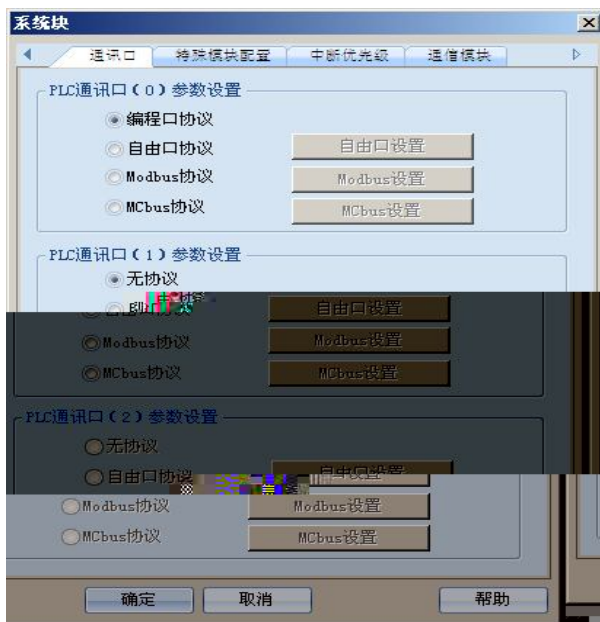
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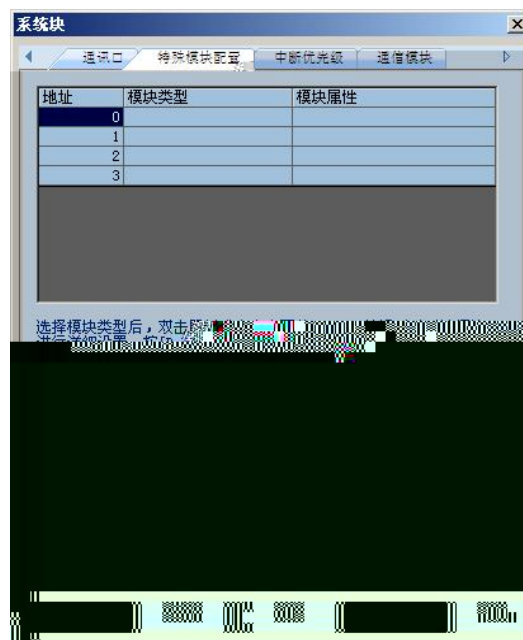
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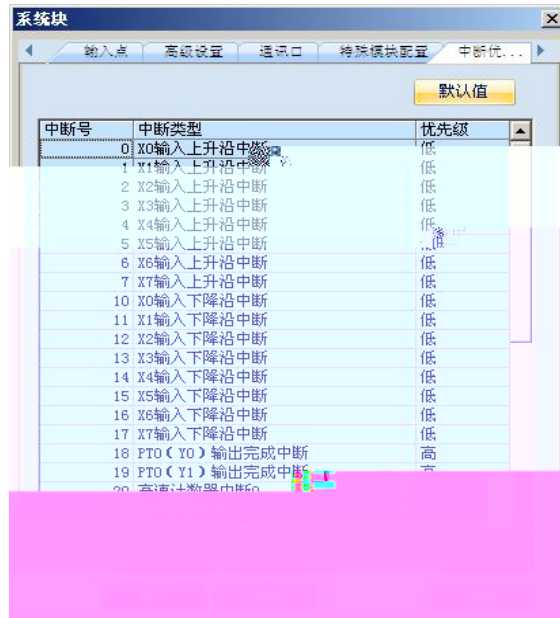
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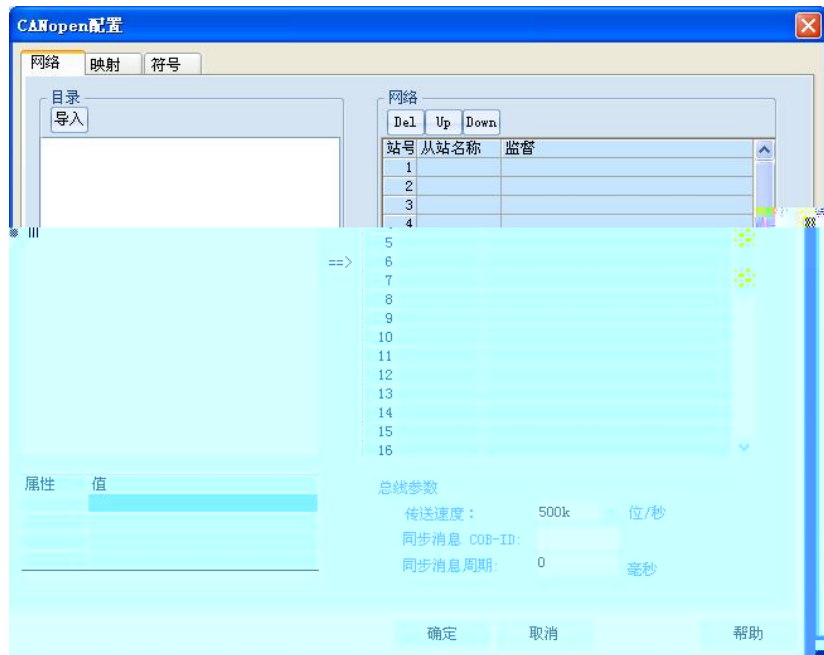
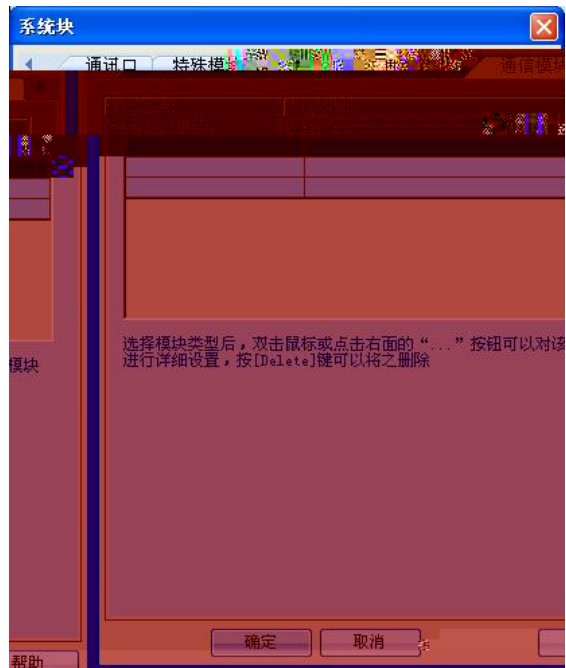


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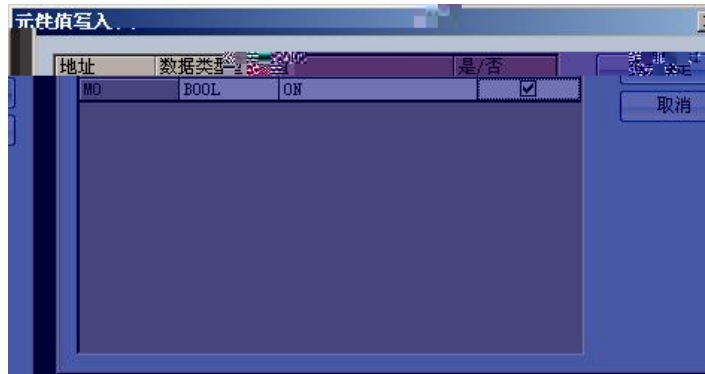
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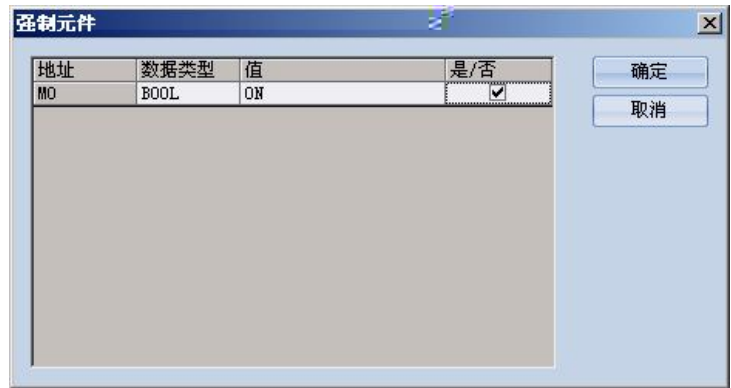
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
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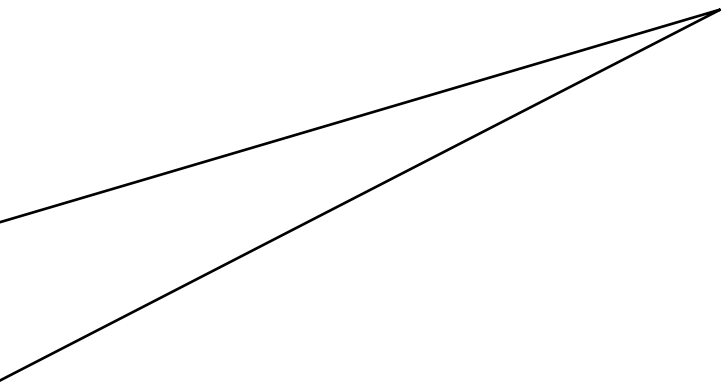
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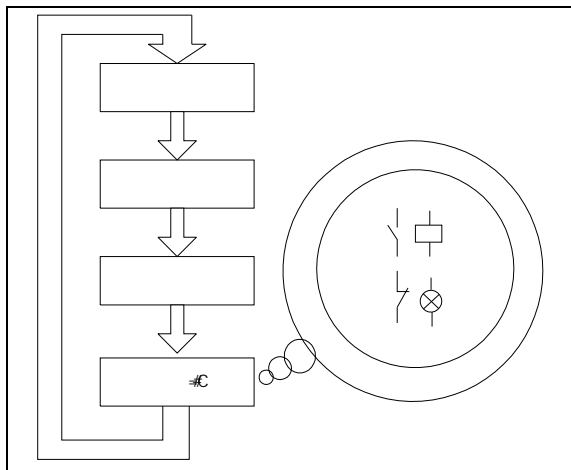


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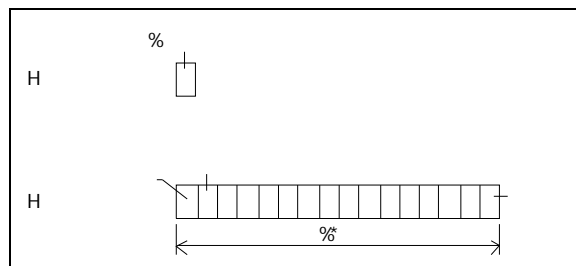
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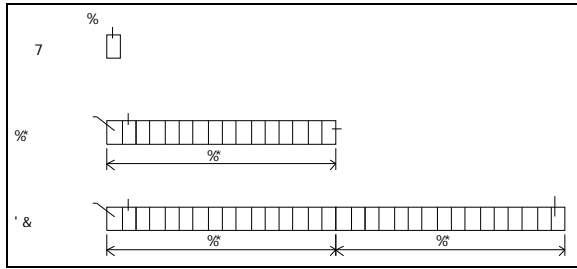
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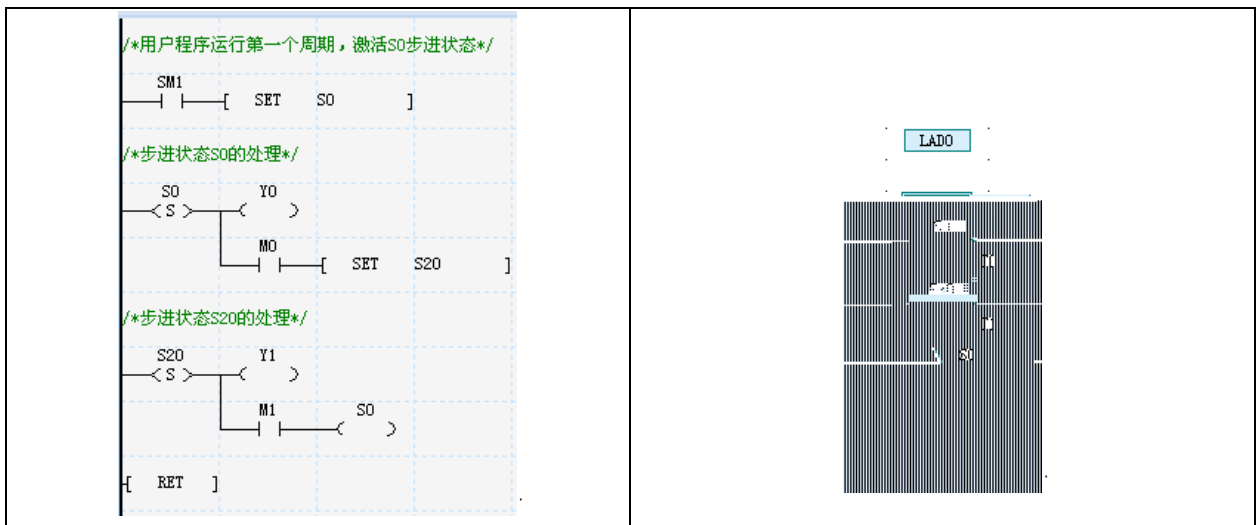
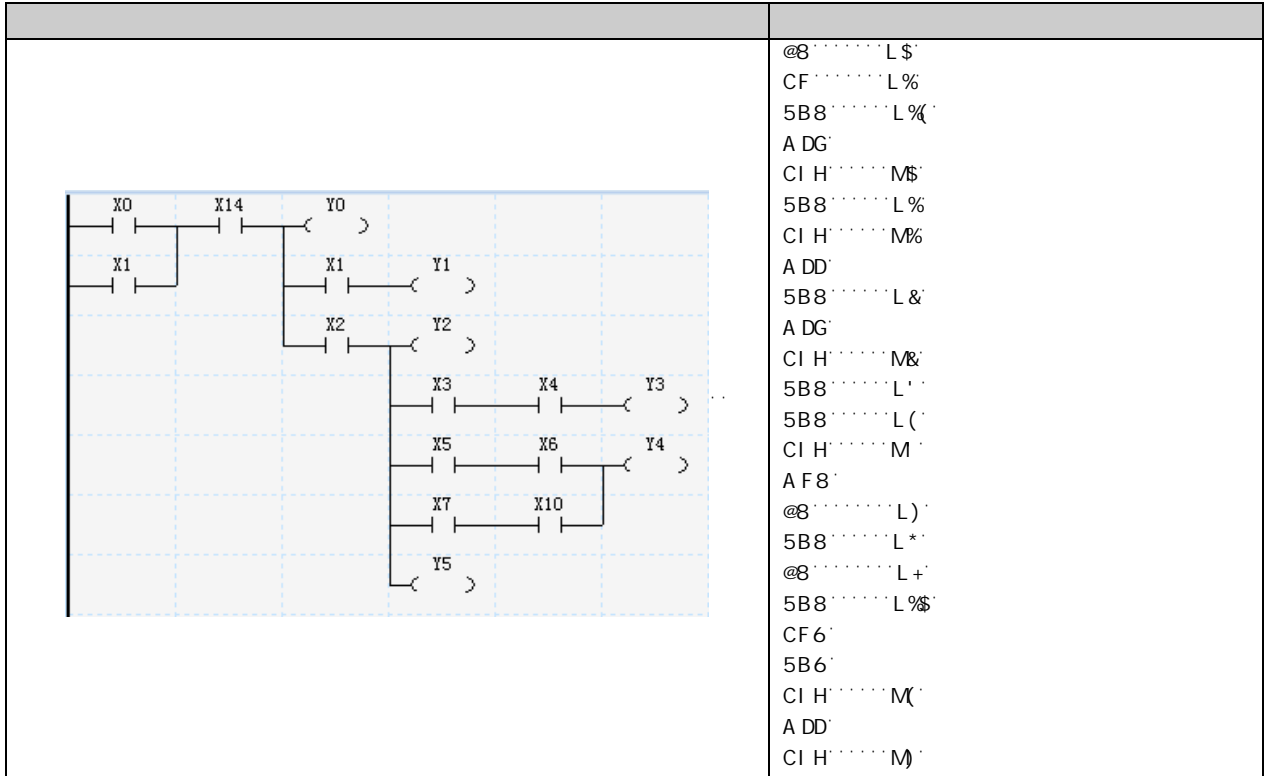
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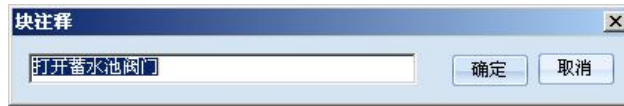
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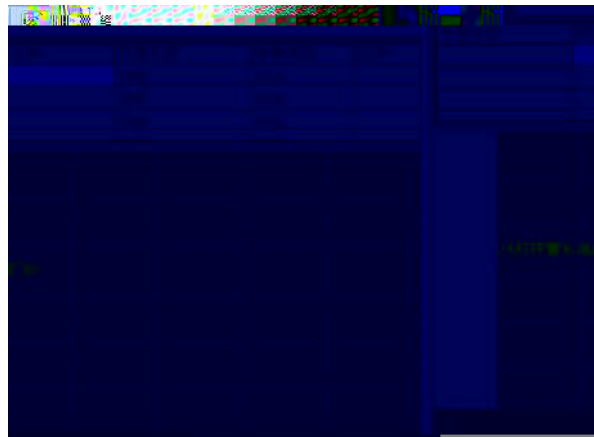
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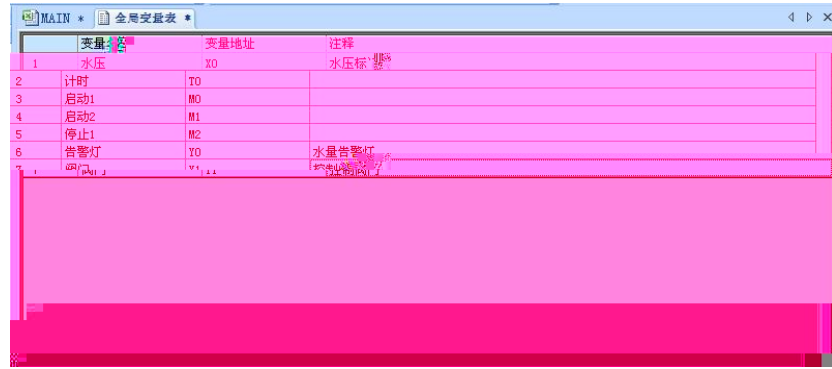
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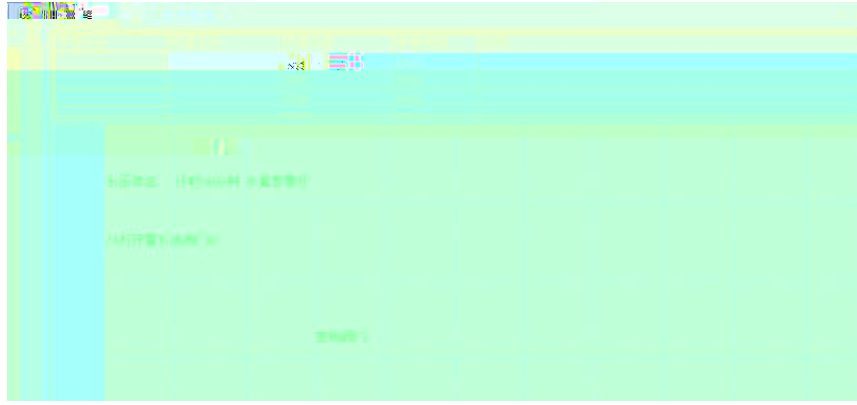
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	变量名	变量地址	注释
1	水压	X0	水压标志
2	计时	T0	
3	启动1	M0	
4	启动2	M1	
5	停止1	M2	
6	告警灯	T0	水量告警灯
7	报警灯	M1, M2	报警灯

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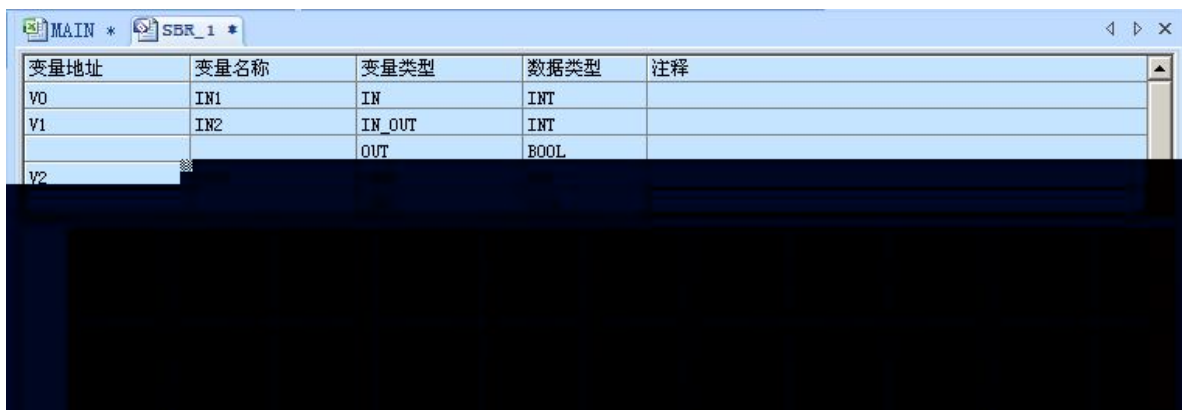
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V1	IN2	IN_OUT	INT	
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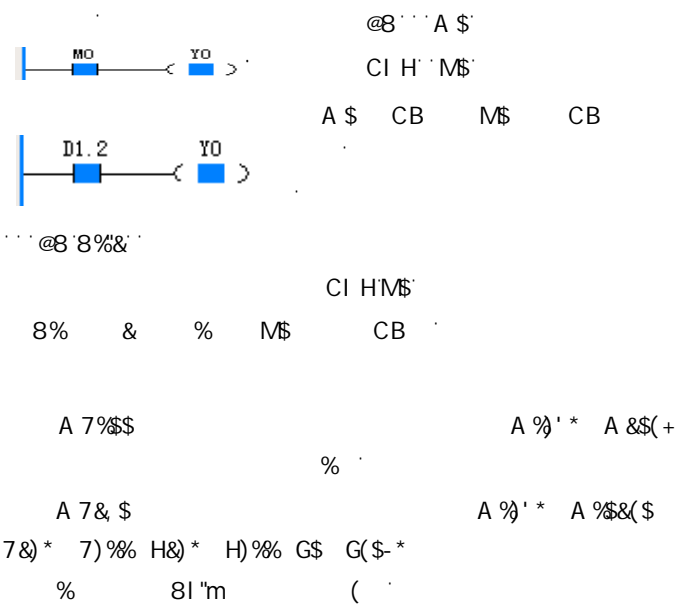
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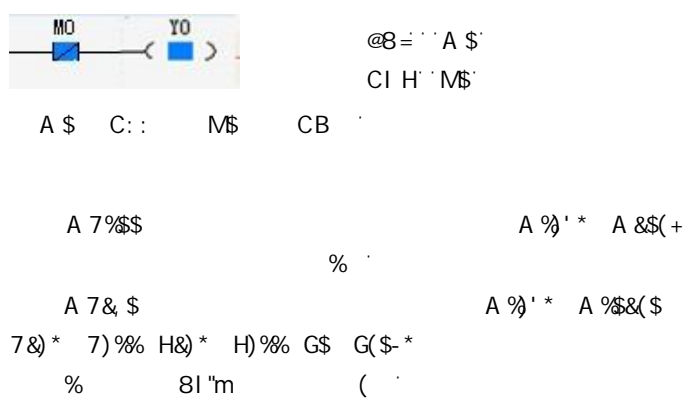


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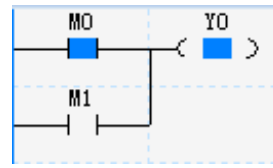
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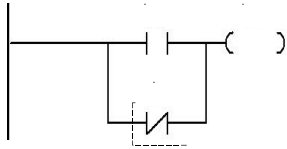
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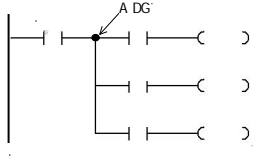


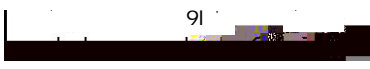
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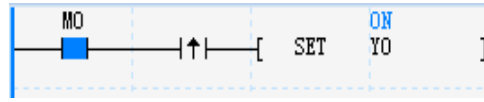




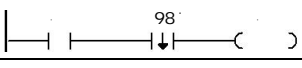
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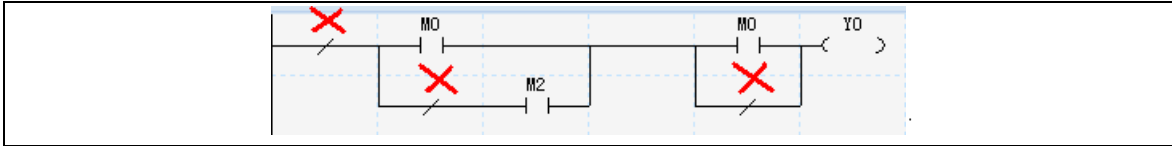
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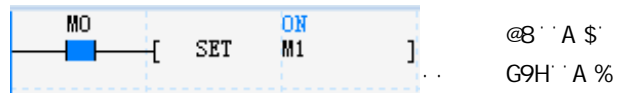
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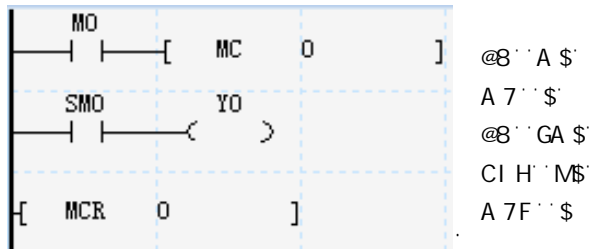
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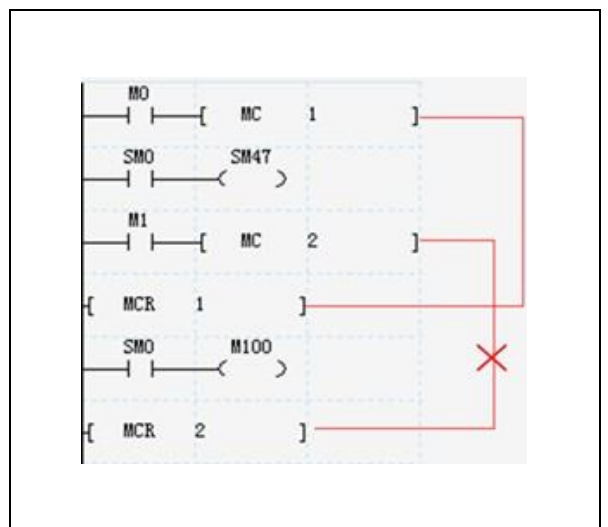
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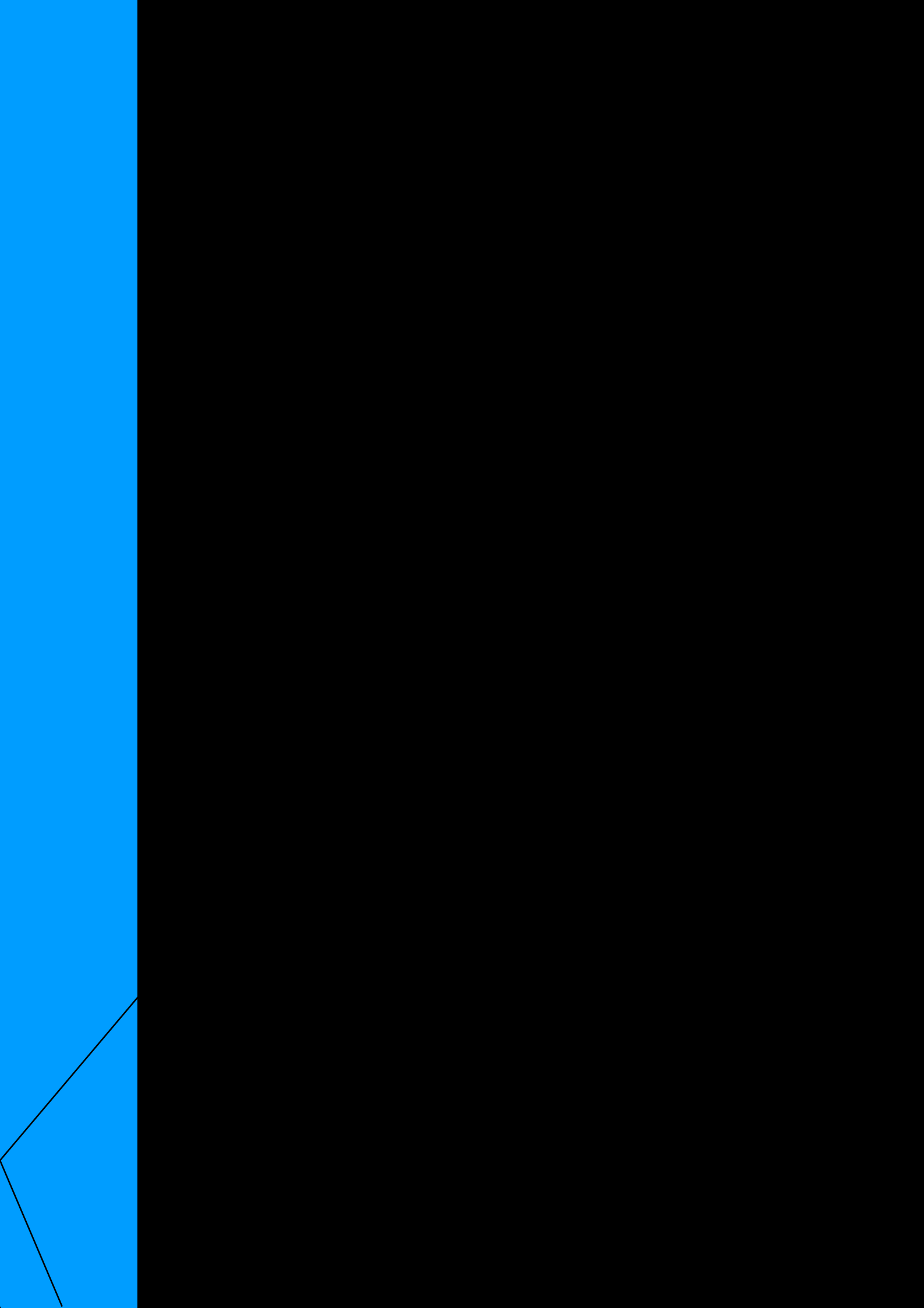
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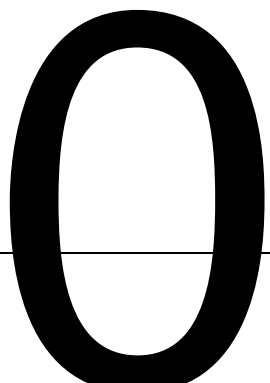
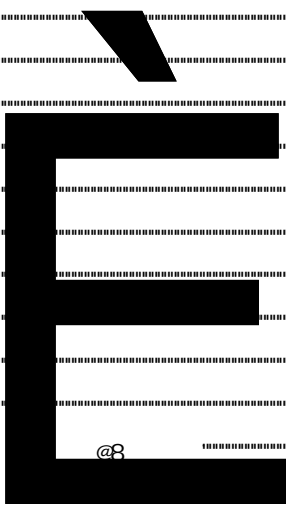
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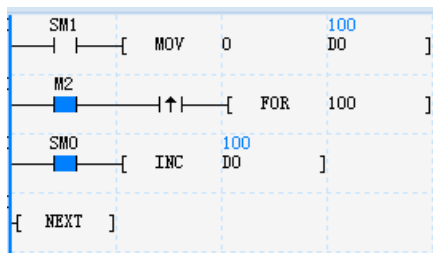
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*"&%"('8FJ 5&' &
*"&%" '56G&' '
"&%" '8GNF 8C;&' (
*"&%"+'GHCD8J&' *
*"&%" '@B&' +
*"&%"-'7K&' -
*"&%"\$'77K&(\$
*"&%"%A CJ 9@B?&(&
*"&%"&'; 95F6CL&' .
*"&%"% '8FJ 7&' .
*"&%"%'75A H56@9&' (
*"&%"%'75A 6CL&') .
*"&%"&'+
*"&%"%A 95B&'+
*"&%"&'K HC6&'+
*"&%" '6HCK&' -
*"&%"('1 B=&)\$
*"&%" '8-€

| | [ FOR (S)]													M200 M100 M80 M280			
													3			
G	-BH		?bL	?bM	?bA	?bG	?b@A	?bGA	8	G8	7	H	J	N	F	

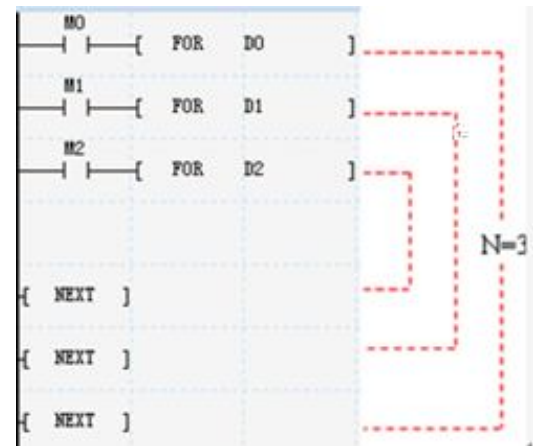
[NEXT]													M200 M100 M80 M280			
													1			

% :CF B9LH :CFIB9LH
 & :CF
 :CFIB9LH
 :CFIB9LH
 :CF
 :CFIB9LH
 :CFIB9LH

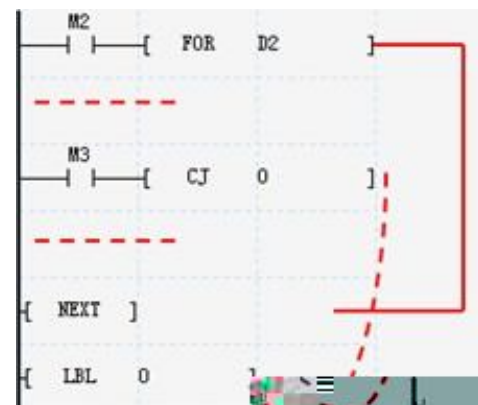
% :CF!B9LH DCI
 & :CFIB9LH A 7&\$\$ 7DI
 :CFIB9LH
 :CFIB9LH



@B GA %
 A C J '\$ ' 8\$'
 @B A &
 9I
 : CF '\$\$'
 @B GA \$
 -B7 ' 8%\$\$
 B9LH'



8\$1\$ A &1C:: A & C:: CB
 :CFIB9LH %\$ 8\$
 %\$ 8\$1%\$\$



(7>

) A 7!A 7F :CF!B9LH

```

M3
| | | [ CJ 0 ]
-----
M2
| | | [ FOR D2 ]
-----
[ LBL 0 ]
-----
[ NEXT ]

```

```

MO
| | | [ FOR D1 ]
-----
SMO
| | | [ MC 0 ]
-----
[ NEXT ]
-----
[ MCR 0 ]

```



:CF!B9LH

K 8H

[LBL (S)]		M200 M100 M80 M280	
		3	
G	=BH		

%

&

7>

%

&

\$ %&+

```

[ LBL 0 ]
-----
MO
| | | [ CJ 0 ]
-----
SMO
| | | [ MOV 100 D0 ]
-----
| | | [ CFEND ]
-----
[ LBL 0 ]
-----
M1
| | | [ MOV 200 D0 ]

```

重要的标号定义

|—| |—| CJ (S)]										M200 M100 M80 M280				
										3				
G	BH													

|—| |—| [ WDT]		M200 M100 M80 M280
		1

Ö73B* D

È · Ä



M200 M100 M

|—| |—| [EI]

		M200 M210 M280 M280
[CALL (子程序名) (参数1) (参数2)]		
Å		

75@@

% 75@@

75@@

& 75@@

G6F%

8-BH#8K CF8

- 75@@G6F%N\$ N
- 75@@G6F%7%- 7\$ 7%-
- 75@@G6F%? &L\$?b % b
G6F%
- 75@@G6F%7&\$ 7&\$ 7&)
- 75@@G6F%? &L\$?b (b

- 8-BH#8K CF8
- 8-BH#8K CF8
- 8-BH#8K CF8
- BH#K CF8
- BH#K CF8
- BH#K CF8

75@@

G6F%

CI H BSCI H

- 75@@G6F%' &%
- 75@@G6F%?(L\$?(L\$
- 75@@G6F%G8\$ G8\$

- CI H BSCI H
- CI H BSCI H
- CI H BSCI H

(75@@

		M200 M210 M280 M280
[CSRET]		
CSRET		1

|—|—| [ MOV (S) (D)]										M200 M100 M80 M280					
										5					
G	=BH		?bL	?bM	?bA	?bG	?b@A	?bGA	8	G8	7	H	J	N	F
8	=BH			?bM	?bA	?bG	?b@A		8	G8	7	H	J	N	F

% A C J

%\$

%%\$

%%\$ ()')

& 7 !H/ 7%\$ 7%€-3 E#h!H/

X0	MOV	500	500
		D0	D10

@8 L\$

A C J 8\$ 8%

L\$1CB 9\$ / 8% 8%\$1)\$

|—|—| [ DMOV (S) (D)]										M200 M100 M80 M280					
										7					
G	=BH		?bL	?bM	?bA	?bG	?b@A	?bGA	8	G8					

										M200 M100 M80 M280					
[RMOV (S) (D)]															
										7					
G	F95@								8				J		F
8	F95@								8				J		F

X0 [RMOV D0 D10] @8 L\$
 FA CJ 8\$ 8\$
 L \$1CB 8\$8% 8\$8% 8\$8% 1) "\$\$\$) \$

										M200 M100 M80 M280					
[BMOV (S1) (D) (S2)]															
										7					
G%	=BH		? bL	? bM	? bA	? bG	? b@A		8	G8	7	H	J		F
8	=BH		? bM	? bA	? bG	? b@A		8		7	H	J		F	
G&	=BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F

X0 [BMOV D0 D100 10] @8 L\$
 6A CJ 8\$
 8\$8\$ 8\$

										M200 M100 M80 M280					
										7					
G%	=BH'		? bL'	? bM'	? bA'	? bG'	? b@A'	? bGA'	8'	G8'	7'	H'	J'	N'	F'
8'	=BH'			? bM'	? bA'	? bG'	? b@A'		8'		7'	H'	J'		F'
G&	=BH'		? bL'	? bM'	? bA'	? bG'	? b@A'	? bGA'	8'	G8'	7'	H'	J'	N'	F'

% 7 7\$ 7%-
 & \$
 ' ?b ?b

X0 [FMOV DO 300 D100 10] @8' L\$
 : A C J ' 8\$ ' 8\$ \$
 %\$
 L\$1CB 8\$ 8\$ \$ %\$ 8\$ \$ 18\$ \$ %1
 18\$ - 18\$ 1' \$ \$

										M200 M100 M80 M280					
										9					
G%	8=BH'		? bL'	? bM'	? bA'	? bG'	? b@A'	? bGA'	8'	G8'	7'		J'		F'
8'	8=BH'			? bM'	? bA'	? bG'	? b@A'		8'		7'		J'		F'
G&	=BH'		? bL'	? bM'	? bA'	? bG'	? b@A'	? bGA'	8'	G8'	7'	H'	J'	N'	F'

% 7 7&\$ 7&))
 & \$
 ' ?b ?b

X0 [FMOV DO 100000 D10 10] @8' L\$
 : A C J ' 8\$ ' 8\$ \$
 %\$
 L\$1CB 8\$ 8\$ % 8\$ % & 8\$ 8\$ % 1
 8\$ 8\$ % 1 1 8& 8&- 1 8\$ 8\$ % 1\$ \$ \$ \$ \$

|---| |---| [ SWAP (D)]										M200 M100 M80 M280					
										3					
8	=BH			?bM	?bA	?bG	?b@A		8		7	H	J	N	F

XO [SWAP DO]

@8 L\$
GK 5D 8\$

L \$1CB 8 \$1\$1 %&+ (%)
%\$\$\$

8\$ 8\$1\$1 &+ %\$

|---| |---| [ XCH (D1) (D2)]										M200 M100 M80 M280					
										5					
8%	=BH			?bM	?bA	?bG	?b@A		8		7	H	J	N	F
8&	=BH			?bM	?bA	?bG	?b@A		8		7	H	J	N	F

%

A 7 D@7

&

```
/*用户人机界面访问D0 D1，对用户来说是可见的*/
/*初始化时要记得交换数据位置，使它符合用户人机界面的规则*/
```

?b D1
D2 ?b "

%

XO [XCH DO D10]

@8
L 7<

L \$1CB 8\$ 8\$
8\$1) \$\$\$

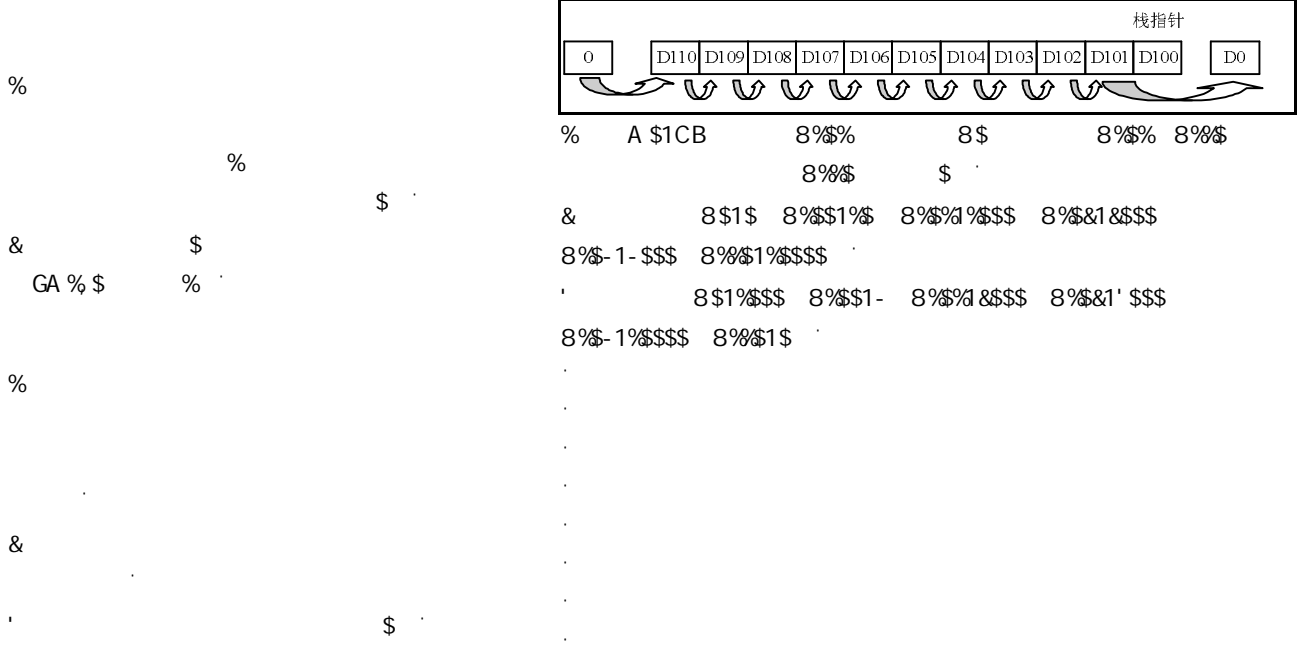
8\$1%\$\$\$

8\$1%\$\$\$ 8\$1) \$\$\$

&

FIFO										M200 M100 M80 M280					
										7					
8%	-BH								8			J	F		
8&	-BH		? bM	? bA	? bG	? b@A			8	7	H	J	N	F	
G	-BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	GS	7	H	J	N	F

MO	FIFO	9	1000	10	@8 A \$
		D100	D0		: = C 8%\$ 8\$
					%\$



|---|---[ LIFO (D1) (D2) (S)]										M200 M100 M80 M280					
										7					
8%	=BH								8				J		F
8&	=BH		? bM	? bA	? bG	? b@A			8		7	H	J	N	F
G	=BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F

%

MO										9						1000					
|---|---[ LIFO D100 D0 10]																					

@8 A \$

@= C 8%\$ 8\$ %

											栈指针					
D0	D110	D109	D108	D107	D106	D105	D104	D103	D102	D101	D100					

% A \$1CB 8%\$ 8\$ 8%\$ 8%\$

%

%

&

\$

GA % \$

%

& 8\$1\$ 8%\$1%\$ 8%\$1%\$\$\$

8%\$&1&\$\$\$ 8%-1-\$\$\$ 8%\$1%\$\$\$

%

8\$1%\$\$\$ 8%\$1- 8%\$1%\$\$\$

8%\$&1&\$\$\$ 8%-1-\$\$\$ 8%\$1%\$\$\$

&

\$

M200 M100 M80 M280

[| | | |] WSFR (S1) (D) (S2) (S3)]

WSE! (S1) (D) (S2) (S3)

|—| |—| [ ADD (S1) (S2) (D)]										M200 M100 M80 M280					
										7					
G%	=BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F
G&	=BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F
8	=BH			? bM	? bA	? bG	? b@A		8		7	H	J	N	F

%
&

X0	[ADD	1000 D0	2000 D1	3000 D10]
----	---	-----	---------	---------	----------	---

@8 L \$

588 8\$ 8% 8%\$

L \$1CB 8\$ %\$\$\$ 8% &\$\$\$

8% 8%\$1' \$\$\$

%

&

' &+*+

GA % %

\$

GA % \$

' &+*,

GA % &

|—| |—| [ SUB (S1) (S2) (D)]										M200 M100 M80 M280					
										7					
G%	=BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F
G&	=BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F
8	=BH			? bM	? bA	? bG	? b@A		8		7	H	J	N	F

									M200 M100 M80 M280						
[MUL (S1) (S2) (D)]															
									8						
G%	=BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F
G&	=BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F
8	8=BH			? bM	? bA	? bG	? b@A		8		7		J		F

%
&

A I @ ' &

X0	1000	2000	2000000
[MUL	DO	D1	D10

@8 L \$

A I @ ' 8\$ ' 8% ' 8%\$

L \$1CB 8\$ %\$\$\$ 8% &\$\$\$

8%\$8% 8%\$8% 1&\$\$\$\$\$

									M200 M100 M80 M280						
[DIV (S1) (S2) (D)]															
									7						
G%	=BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F
G&	=BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F
8	=BH			? bM	? bA	? bG	? b@A		8		7	H	J	N	F

%
&

\$ \$

X0	2500	1000	2
[DIV	DO	D1	D10

@8 L \$

8

8= 8\$ ' 8%8%\$

L \$1CB 8\$ &\$\$\$ 8% %\$\$\$

8%\$8% 8%\$1& 8%\$1)\$\$

| | | [ SQT (S) (D)]										M200 M100 M50 M250					
										5					
G	-BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F
8	-BH			? bM	? bA	? bG	? b@A		8		7	H	J	N	F

\$

%

X0	1000	31
[SQT	D0	D10

 @8 L\$ GEH 8\$ 8%

& \$ L\$1CB 8\$ %\$\$\$ 8% 8%\$1' %

GA % \$

GA % &

| | | [ INC (D)]										M200 M100 M50 M250					
8	-BH			? bM	? bA	? bG	? b@A		8		7	H	J	N	F

TM~ 4r8% 3 ôs TM €€ T

| | [ DEC (D)]										M200 M100 M80 M280					
										3					
8	=BH			?bM	?bA	?bG	?b@A		8		7	H	J	N	F

!'&+*, '&+*

%

X0	999
[DEC D0]	

@8`L\$`
8A7`8\$`

L\$1CB 8\$ %\$\$\$ % 8\$1---

| | [ VABS (S) (D)]										M200 M100 M80 M280					
										5					
G	=BH		?bL	?bM	?bA	?bG	?b@A	?bGA	8	G8	7	H	J	N	F
8	=BH			?bM	?bA	?bG	?b@A		8		7	H	J	N	F

!'&+*+ '&+*+ !'&+*,

X0	-1000	1000
[VABS D0 D10]		

@8`L\$`
J56G`8\$`8\$`

L\$1CB 8\$!\$\$\$ 8% 8%!\$\$\$

| | [ NEG (S) (D)]										M200 M100 M80 M280					
										5					
G	=BH		?bL	?bM	?bA	?bG	?b@A	?bGA	8	G8	7	H	J	N	F
8	=BH			?bM	?bA	?bG	?b@A		8		7	H	J	N	F

!'&+*+ '&+*+ !'&+*,

@8`L\$`
B9;`8\$`8\$`

X0	1000	-1000
[NEG D0 D10]		

L\$1CB 8\$ %\$\$\$ 8% 8%!\$\$\$

| | [ DADD (S1) (S2) (D)]										M200 M100 M80 M280					
										10					
G%	8=BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7		J		F
G&	8=BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7		J		F
8	8=BH			? bM	? bA	? bG	? b@A		8		7		J		F

%
&

%
&
GA % %
GA % \$
GA % &

X0	100000	200000	300000
| | [ DADD D0 D2 D10]			

@8 L \$
8588 8\$ 8& 8%\$
L \$1CB 8\$8% %\$\$\$\$ 8&8'
&\$\$\$\$ 8%8% 8%8%

| | [ DSUB (S1) (S2) (D)]										M200 M100 M80 M280					
										10					
G%	8=BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7		J		F
G&	8=BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7		J		F
8	8=BH			? bM	? bA	? bG	? b@A		8		7		J		F

%
&

%
&
GA % %
GA % \$
GA % &

X0	100000	200000	-100000
| | [ DSUB D0 D2 D10]			

@8 L \$
8G 6 8\$ 8& 8%\$
L \$1CB 8\$8% %\$\$\$\$ 8&8'
&\$\$\$\$ 8%8% 8%8%
%\$\$\$\$

Ö										M200 M100 M80 M280				
|—| |—| [ DMUL (S1) (S2) (D)]														
										10				
G%	8-BH		?bL	?bM	?bA	?bG	?b@A	?bGA	8	G8	7		J	F
G&	8-BH		?bL	?bM	?bA	?bG	?b@A	?bGA	8					

| | [ DSQT (S) (D)]										M200 M100 M80 M280					
										7					
G	8-BH		?bL	?bM	?bA	?bG	?b@A	?bGA	8	G8	7		J		F
8	8-BH			?bM	?bA	?bG	?b@A		8		7		J		F

\$

%



@8 L \$
8GEH 8\$ 8\$

&

GA % \$

\$

L \$1CB 8\$8% , \$\$\$
1&

8%8% 8%8%

GA % &

| | [ DINC (D)]										M200 M100 M80 M280					
										4					
8															

|—| —| [ DDEC (D)]		M200 M100 M80 M280
--------------------	--	--------------------

		M200 M100 M80 M280	
]			
		7	
? bGA	8	G8	7
	8		7
		J	F
		J	F

88%+(, '*(+ 88%+(, '*(+ 88%+(, '*(+

100000 -100000

@8 L\$

DNEG D0 D10] 8B9; 8\$ 8%

| | [ DSUM (S1) (S2) (D)]										M200 M100 M80 M280				
										9				
G%	8-BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	J		F
G&	-BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N F
8	8-BH			? bM	? bA	? bG	? b@A		8		7	J		F

&

SMD	[	DMOV	100000	100000	D0]	
	[	DMOV	200000	200000	D2]	
	[	DMOV	300000	300000	D4]	
	[	DMOV	400000	400000	D6]	
	[	DMOV	500000	500000	D8]	
XO	[DSUM	100000	5	1500000	D100]

@8 GA \$
 8A CJ %\$\$\$\$ 8\$
 8A CJ &\$\$\$\$ 8&
 8A CJ \$\$\$\$ 8(
 8A CJ (\$\$\$\$ 8*
 8A CJ)\$\$\$\$ 8,
 @8 L \$
 8G A 8\$) 8%\$

\$ &))

L \$1CB 8\$) &

8%\$8%\$

8%\$8%\$ 1 8\$8%

8, 8- 1) \$\$\$\$

| | [ RADD (S1) (S2) (D)]										M200 M100 M280				
										10				
G%	F95@								8			J		F
G&	F95@								8			J		F
8	F95@								8			J		F

GA % %

\$

GA % \$

%

&

XO	[RADD	-1000.20	2000.500	1000.300	D0	D2	D10]
----	---	------	----------	----------	----------	----	----	-----	---

@8 L \$
 F588 8\$8&8%

%

L \$1CB 8\$8%

!\$\$\$\$8\$

8&8'

&\$\$\$)\$ \$

8%\$8%

8%\$8%

1!\$\$\$\$ \$ \$

&

%+\$%&Y \$,

%+\$%&Y \$,

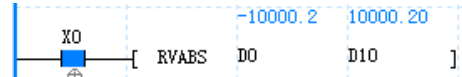
|—| |—| [ RSUB (S1) (S2) (D)]										M200 M100 M250 \$				
										10				
G%	F95@								8				J	F
G&	F95@								8				J	F
8	F95@								8				J	F

%

&

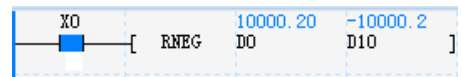
%

| | [ RVABS (S) (D)]										M200 M100 M280		
										7		
G	F95@							8			J	F
8	F95@							8			J	F



@ L \$
 FJ56G 8\$ 8%
 L\$1CB 8\$8% 1\$\$\$\$&
 8\$8% 8\$8% 1\$\$\$\$&

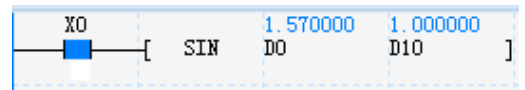
| | [ RNEG (S) (D)]										M200 M100 M280		
										7		
G	F95@							8			J	F
8	F95@							8			J	F



@ L \$
 FB9 8\$ 8%
 L\$1CB 8\$8% 1\$\$\$\$&
 8\$8% 8\$8% 1\$\$\$\$&

| | [ SIN (S) (D)]										M200 M100 M280		
										7		
G	F95@							8			J	F
8	F95@							8			J	F

& \$ GA % \$



@ L \$
 GB 8\$ 8%

%

G-B

L \$1CB 8% 1% + G-B

8% 8% 1%

										M200 M100 M280			
[COS (S) (D)]													
										7			
G	F95@							8			J		F
8	F95@							8			J		F

X0	[COS	3.140000	-1.00000
	D0	D10	

@8 L \$
7CG 8 8

L \$1CB 8% 1% 7CG

8% 8%

%
7CG
&
GA % \$

1!\$\$\$\$\$

										M200 M100 M280			
[TAN (S) (D)]													
										7			
G	F95@							8			J		F
8	F95@							8			J		F

X0	[TAN	1.570000	1255.848
	D0	D10	

@8 L \$
H5B 8 8

L \$1CB 8% 1% + H5B

8% 8%

%
H5B
&
%+\$%&Y \$,
!%+\$%&Y \$,
GA % %
\$ GA % \$

1%&)" (, ' - ,

|—| |—| [ POWER (S1) (S2) (D)]										M200 M100 M280						
										10						
G%	F95@								8				J			F
G&	F95@								8				J			F
8	F95@								8				J			F

		M200 M100 M280												
		7												
G	F95@											J		F
8	F95@											J		F

EXP 10.00000 22026.46 @8 L\$
 DO D10] 9LD 8\$ 8\$

%

&

+\$%&Y \$,

+\$%&Y \$,

GA % %

\$ GA % \$

		M200 M100 M280													
RSUM (S1) (S2) (D)		9													
G%	F95@												J		F
G&	=BH	? bL	? bM	? bA	? bG	? b@A	? bGA	8					J		F
8	F95@							8					J		F

h&€ @0 TM AIR

% \$ &) ÈF 1Ç >, (d •, €

| | [ ACOS (S) (D)]										MC280				
5H5B f8 fD										7				
G	F95@							8				J	F	
8	F95@							8				J	F	

& \$ GA % \$

SMD	[ATAN	3.140000	1.262481	@8 GA \$
	DO	D10		5H5B 8 \$ 8 \$

%
H5B!% GA \$1CB fB\$ 8% ' % H5B!% fB\$ 8% fB\$ 8% 1% & * & (, %

| | [ LOG (S) (D)]										MC280				
@C; f8 fD										7				
G	F95@							8				J	F	
8	F95@							8				J	F	

& \$ GA % \$

SMD	[LOG	3.000000	0.477121	@8 GA \$
	DO	D10		@C; 8 \$ 8 \$

% @C; %\$ GA \$1CB 8 \$ fB\$ ' \$ 8 \$ fB\$ 8 \$ fB\$ 1 \$ (+ % \$

| | [ RAD (S) (D)]										MC280				
F58 f8 fD										7				
G	F95@							8				J	F	
8	F95@							8				J	F	

% & \$ GA % \$

SMD	[RAD	180.0000	3.141593	@8 GA \$
	DO	D10		F58 8 \$ 8 \$

GA \$1CB 8\$FB% % \$\$ 8\$FB% 8\$FB%1' % (%) -'

|—| —| [ DEG (S) (D)]		M280
89; fBE fDL		7
G	F95@	8

6CC@		%	CB C::	% @A
BH		%	! &+*, Z' &+*+	% J
8-BH		' &	!&%+(, '* (, Z&%+(, '* (+	& J
K CF8		%	\$ *)')'	% J
8K CF8		' &	\$ (& (-*+&-)	& J
F 95@		' &	-%%+)(-(')%9!' , r-'('\$& & (**'9Z" ,	& J

678 !! 678 6]bUfm7cXYX'8YMa U
 678 , (&%678
 , (&%678

\$	\$\$\$\$	\$\$\$\$
%	\$\$\$\$%	\$\$\$\$%
&	\$\$%\$	\$\$%\$
'	\$\$%\$	\$\$%\$
(\$%\$	%\$
)	\$%\$%	%\$%
*	\$%\$	%\$%
+	\$%\$%	%\$%
,	%\$	%\$
-	%\$%	%\$

|—| |—| [ DTI (S) (D)]										M200 M100 M80 M280					
										6					
G	8-BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	J	F		
8	BH			? bM	? bA	? bG	? b@A		8		7	H	J	N	F

' &+*+ !' &+*,

X0	10000	10000
[DTI	D0	D10

@8 L\$
 8H= 8\$ 8\$

L \$1CB 8 \$z8% 1\$ \$\$\$ 8% 8% 1\$ \$\$\$

| | [ INT (S) (D)]										M200 M100 M280					
										6					
G	F95@								8				J		F
8	=BH			?bM	?bA	?bG	?b@A		8		7	H	J	N	F

' &+*+ 1' &+*+ !' &+*, 1!' &+*,

%

X0	10000.50	10000
[INT	D0	D10]

@8 L\$
=BH 8\$ 8\$

&

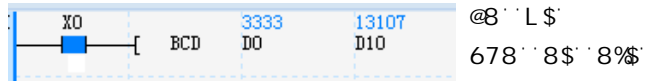
L\$1CB 8\$8% 1%\$\$\$) 8\$
8\$1%\$\$\$

M200 M100 M280

| | [DINT (S) (D)]

|—| |—| [ BCD (S) (D)]										M200 M100 M80 M280					
										5					
G	K CF8		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F
8	K CF8			? bM	? bA	? bG	? b@A		8		7	H	J	N	F

% 678



L \$1CB 8 \$1 \$1 \$8 \$) ' ' ' ' ' ' % 678 8 %
 8 % \$1 \$ ' ' ' ' ' ' % % \$ +

| [ DBCD (S) (D)]										M200 M100 M80 M280					
										7					
G	8K CF8		? bL	? bM	? bA	? bG	? b@A	? bGA	8						

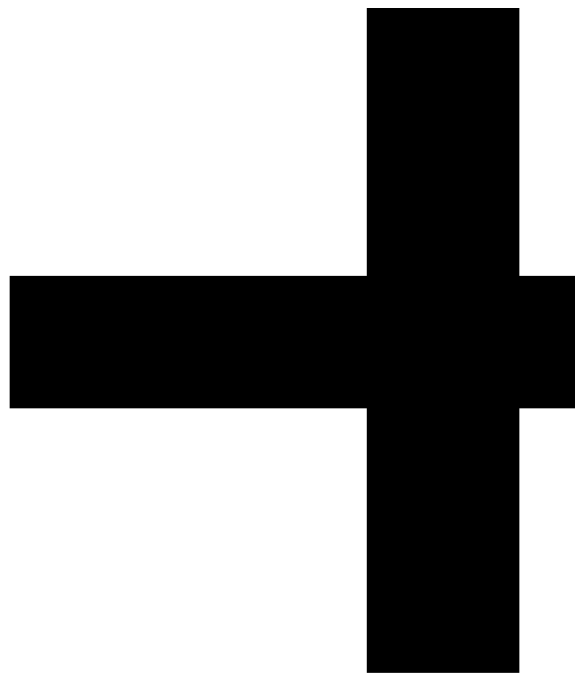
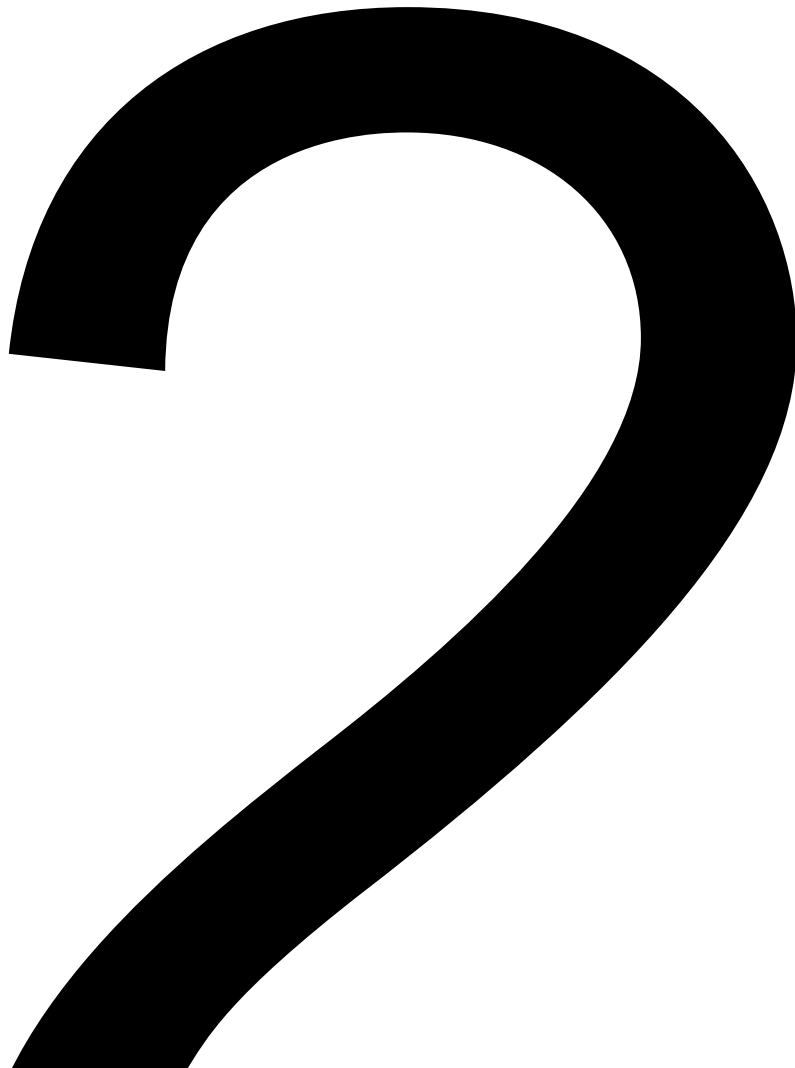
		M200 M100 M80 M280
[BIN (S) (D)]		

[GRY (S) (D)]										M20D M10D M30EM280					
A D										5					
G	K CF8		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F
8	K CF8			? bM	? bA	? bG	? b@A		8		7	H	J	N	F

&

C

%



? bL

| | [ DGBIN (S) (D)]										M200 M100 M80 M280			
										7			
G	8K CF8		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	J	F
8	8K CF8			? bM	? bA	? bG	? b@A		8		7	J	F

XO [DGBIN DO D10] @B L\$
 3435973836 2290649224
 8; 6-B 8\$ 8\$
 L \$1CB 8\$8% 1\$ 77777777 ' (') - + , ' * ' &
 8\$8% 8\$8% A 1\$ && - \$* (- && (

| | [ SEG (S) (D)]										M200 M100 M80 M280			
-----------------	--	--	--	--	--	--	--	--	--	--------------------	--	--	--

										M200 M100 M80 M280			
| | [ ASC (S1~S8) (D)]													
										19			
G%	K CF8												
G&	K CF8												
G'	K CF8												
G(	K CF8												
G)	K CF8												
G*	K CF8												
G+	K CF8												
G.	K CF8												
8	K CF8							8		7	H	J	N F

5G7 = \$! 8% \$! +9
 \$L \$\$

\$

MO	[ASC 12345678 12849 DO]
----	---------------------------

@B A \$

5G7 %& () *+, ' 8\$

A \$1CB 5G7 =

- GA % *1C: : 8\$1\$' & %
 8%1\$' (' 8&1\$' *) 8' 1\$' , '+
- GA % *1CB 8\$1\$' % 8%1\$' &
 8&1\$' ' 8' 1\$' (8(1\$') 8)1\$' * 8*1\$' +
 8+1\$' ,

5G7 =

GA % *1C: :

5G7 = GA % *1CB

% 5G7 =

M200 M100 M80 M280

| | [ITA (S1) (D) (S2)]

● GA %*1C::
8&9a \$! '* +

8&\$1\$! ', '-

● GA %*1CB

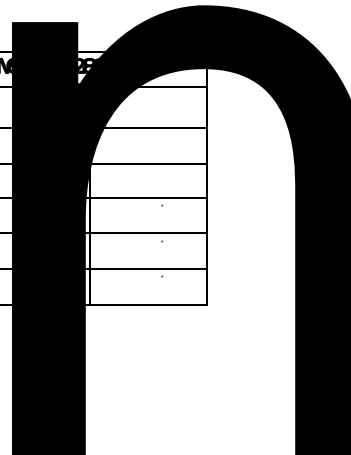
8&\$1\$! '- 8&9a \$! ', %

8&&1\$! '+ 8& 1\$! '*

|—| —[ ATI (S1) (D) (S2)]										M200 M100 M		28	
										7			
G%			? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J
8				? bM	? bA	? bG	? b@A		8		7	H	J
G&			? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J

5G7=

\$! '\$ \$! '- \$! (% \$! (* GA %*1C::



D@7

V_{ML}

V_{MH}

V_{SL}

V_{SH}

S_n

D_n

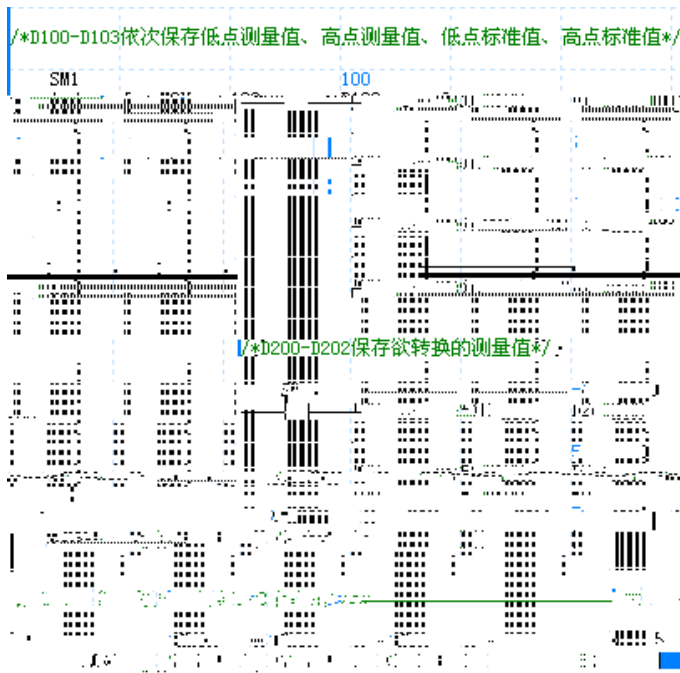
A fV_{SL} V_{SH} fV_{ML} V_{MH} f %\$\$\$\$

B V_{SL} fV_{ML} f A#\$\$\$\$

D_n fS_n f A#\$\$\$\$ B

D_n

' &+*+ ' &+*+ !' &+*, !' &+*,



@7BJ

8' \$\$1!%\$

8' \$%1)\$

8' \$&1)%\$

<p>RLCNV (S1) (S2) (D) (S3)]</p>	<p>M200 M280</p>
-----------------------------------	------------------

% *(

D@7

V_{MH}

V_{SL}

V_{ML}

V_{SH}

S_n

D_n

A f V_{SL} V_{SH} f V_{ML} V_{MH} t %\$\$\$\$

B V_{SL} f V_{ML} t A #\$\$\$\$

D_n f S_n t A #\$\$\$\$ B

D_n

' &+*+

' &+*+

!' &+*,

!' &+*,

M1	[	MOV	282	282	D1000]	
	[	MOV	3530	3530	D1001]	
	[	MOV	260	260	D1002]	
	[	MOV	3650	3650	D1003]	
M4	[	MOV	282	282	D100]	
	[	MOV	3530	3530	D101]	
	[	MOV	1906	1906	D102]	
	[	MOV	0	0	D103]	
	[	MOV	5000	5000	D104]	
	[	MOV	-115	-115	D105]	
M2	[	LCNV	282	282	D1000	D200	6

@8 = A %

FA CJ ' ' & & ' ' 8%\$\$\$

FA CJ ' ' ')' \$ ' 8%\$\$\$

FA CJ ' ' & * \$ ' ' 8%\$\$\$

FA CJ ' ' ' *) \$ ' 8%\$\$\$

@8 = ' ' A (

FA CJ ' ' & & ' ' 8%\$\$\$

FA CJ ' ' ')' \$ ' 8%\$\$\$

FA CJ ' ' % * \$ ' ' 8%\$\$\$

FA CJ ' ' \$ ' ' ' 8%\$\$\$

FA CJ ' ') \$\$\$ ' 8%\$\$\$

FA CJ ' ' ! %) ' ' 8%\$\$\$

@8 ' ' ' A &

F@7BJ ' ' 8%\$\$\$ ' 8%\$\$\$ ' 8%\$\$\$ ' 8%\$\$\$ ' *

A &1CB @7BJ

8&\$\$fB&\$\$L'1' &*\$

8&\$\$fB&\$\$L'1' *)\$

8&\$(fB&\$\$L'1' %))

8&*\$fB&\$\$L'1' ! (" & ,

8&\$, fB&\$\$L'1') % ("&+*

8&\$\$fB&\$\$L'1' ! % (") +

| | | [ WAND (S1) (S2) (D)]										M200 M100 M80 M280					
										7					
G%	K CF 8		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F
G&	K CF 8		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F
8	K CF 8			? bM	? bA	? bG	? b@A		8		7	H	J	N	F

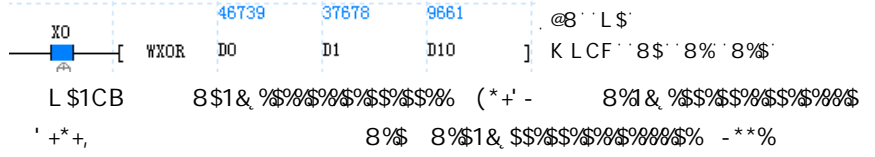
%
&

X0	46739	37678	37378
[WAND	D0	D1	D10]

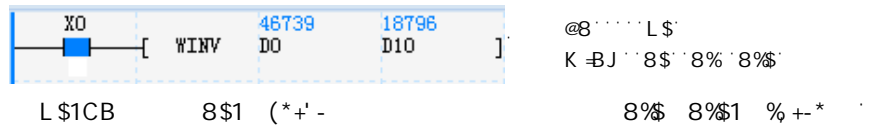
@8 L\$
K 5B8
8\$8%8%

L \$1CB 8 \$1& %\$%\$% %\$%\$% fl

%
&



| | | [ WINV (S) (D)]													M200	M100	M80	M280
| | |													5			
G	K CF8		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F	
8	K CF8			? bM	? bA	? bG	? b@A		8		7	H	J	N	F	



| | | [ DWAND (S1) (S2) (D)]													M200	M100	M80	M280
| | |													10			
G	8K CF8		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	J	F			

[ROR (S1) (D) (S2)]																
G%	K CF8		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F	
8	K CF8			? bM	? bA	? bG	? b@A		8		7	H	J	N	F	
G&	BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F	

%

&

GA % %

\$

? b

? b

(

[ROL (S1) (D) (S2)]																
G%	K CF 8		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F	
8	K CF 8			? bM	? bA	? bG	? b@A		8		7	H	J	N	F	
G&	BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F	

%

&

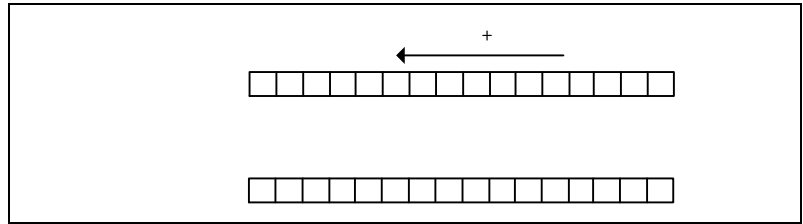
|—| |—| [ RCL (S1) (D) (S2)]			
G%	K CF8	? bL	? bM ? bA ? bG ? b@A ? bGA 8 G8 7 H J N F

| | [ SHL (S1) (D) (S2)]														
G%	K CF8	? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F
8	K CF8		? bM	? bA	? bG	? b@A		8		7	H	J	N	F
G&	=BH	? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F

%

MO		31452	28160			
| | [ SHL DO D10 7]	@8	A \$	G<@	8\$	8%	+

&



\$

A \$1CB 8\$1& \$%000\$%\$%\$%000\$ \$ '(%)& + 8%\$
8%\$1& \$%0\$000\$0000000000 & % \$

? b ? b (

| | [ DSHR (S1) (D) (S2)]														
G%	8K CF8	? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7		J		F
8	8K CF8		? bM	? bA	? bG	? b@A		8		7		J		F
G&	=BH	? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F

%

\$? b ? b

&

MO		1939381420	1893927	
| | [ DSHR DO D10 10]	@8	A \$	8G<F	8\$8%\$%

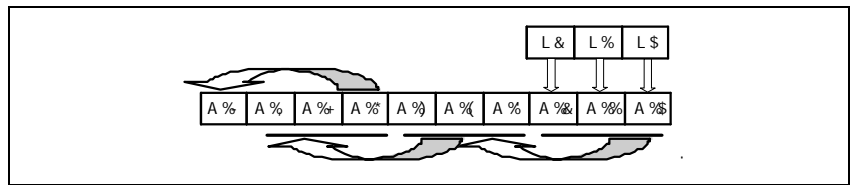
% A \$1CB 8\$8% 1& \$%0\$000\$%0\$000\$ \$%000\$%\$%000\$ \$
% '- , %&\$ % 8%8% 8%8%
1& \$\$\$\$\$\$\$\$\$000\$000\$000\$000\$ \$%000\$ % '- -&+
& G<F

|—| |—| [ DSHL (S1) (D) (S2)]		
-------------------------------	--	--

| | [ SFTL (S1) (D) (S2) (S3)														
G%	6CC@	L	M	A	G	@A	GA			7	H			
8	6CC@		M	A	G	@A				7	H			
G&	=BH	?bL	?bM	?bA	?bG	?b@A	?bGA	8	G8	7	H	J	N	F
G	=BH	?bL	?bM	?bA	?bG	?b@A	?bGA	8	G8	7	H	J	N	F

%

MO | | [SFTL ON XO ON M10 10 3] @8...A\$
G:H@L\$A%\$%\$



%

% A \$1CB A %\$ %\$

&

A %+ A % L \$

& L \$1% L %1\$ L &1% A %1\$ A %1% A %1% A %1\$ A %1\$

A %1% A %1\$ A %-1\$ A %1\$ A %1%

' L \$ L & A %1% A %1\$ A %1% A %1\$ A %1% A %1%

A %1\$ A %-1\$ A %1% A %1\$

FROM (S1) (S2) (D) (S3)															
G%	=BH'														
G&	=BH'														
8	=BH'								8				J	F	
G	=BH'														

6: A

\$ +

: FCA

6: A

\$ '&+*+

6: A

6: A

MO	[	FROM	0	3	997	D100	2	]	@8'' A \$
									: FCA \$' 8%\$&

A \$ CB \$

6: A

&

8%\$ 8%\$

6: A

% '&+*+

6: A

6: A

|-----|-----| [ DFROM (S1) (S2) (D) (S3)]															
G%	=BH'		.	.	.	.	.	.	.	.	.	.	.	.	.
G&	=BH'		.	.	.	.	.	.	.	.	.	.	.	.	.
8'	8=BH'		.	.	.	.	.	.	8'	.	.	.	J'	.	F'
G'	=BH'		.	.	.	.	.	.	.	.	.	.	.	.	.

6: A

\$ +

6: A

6: A

8: FCA

\$ '&+*+

6: A

6: A

MO	[DFROM	0	3	16580857	D200	1]
----	---	-------	---	---	----------	------	---	---

@8' A \$'

8: FCA '\$' '8&\$%'

A \$ CB \$

6: A

%

6: A

8&\$Z&\$%

% '&+*+

6: A

|-----|-----[ TO (S1) (S2) (S3) (S4)]															
G%	=BH'		.	.	.	.	.	.	.	.	.	.	.	.	.
G&	=BH'		.	.	.	.	.	.	.	.	.	.	.	.	.
G'	=BH'		.	.	.	.	.	8'	.	.	.	J'	.	F'	.
G(	=BH'		.	.	.	.	.	.	.	.	.	.	.	.	.

\$ + 6: A

6: A HC

\$ '&+*+
6: A
6: A

SMD	[TO	0	8	1000	2]
-----	---	----	---	---	------	---	---

@8 GA \$
HC \$', '\$\$\$' &
%\$\$

D@7 \$ 6: A , 6: A -

6: A

% '&+*+
6: A
6: A

|-----|-----| [ DIO (S1) (S2) (S3) (S4)]																
G%	=BH'															
G&	=BH'															
G'	8-BH'								8				J		F	
G(	=BH'															

\$ +

6: A

8HC

6: A

\$ '&+*+

SMD	[DIO	0	8	16711935	1]
-----	---	-----	---	---	----------	---	---

@8 ' ' GA \$
8HC ' \$ ' , ' % + % ') ' %

6: A

6: A

D@7

\$

6: A , , -

%

% + % ')

6: A

% '&+*+

6: A

6: A

|-----|-----| [ VRRD (S) (D)]																
G'	KCF8'															
8'	KCF8'								8				J			

\$ &))

MO	[VRRD	0	T8	D10]
----	---	------	---	----	-----	---

\$ &))

@8 ' ' A \$

JFF8 ' \$ ' 8%

A \$ CB

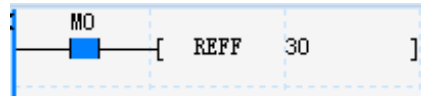
\$

8%\$

|---| |---| [ REFF (S)]															
G	KCF8		?bL	?bM	?bA	?bG	?b@A	?bGA	8	G8	7	H	J	N	F

● A 7&\$\$ \$ *(ag *(

● A 7%\$\$ \$, % ' & *(
 \$ % ,
 ' & % *(' &



@8... A \$
 F9: ... \$

L\$ CB

' \$ag

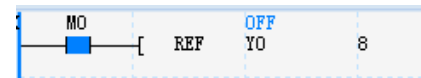
L\$ L%+

|---| |---| [ REF (D) (S)]															
8	6CC@		L	M											
G	-BH														

L#M
 L\$ L% L&\$
 M\$ M\$ M&\$ \$

% Lb Mb
 &
 :CFIB9LH 7>

D@7



@8... A \$
 F9: ... M\$

A \$ CB M\$ M+

|—| |—| [ EROMWR (S1) (S2)]															
G%	K CF8								8					F	
G&	=BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F

| | [ FR]														
G	K CF8								8		7	H		F
8	6CC@			M										

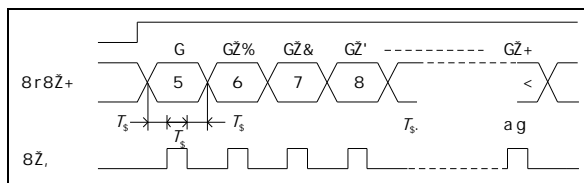
M

% G GZ+ , %
& GA +%

8 8Z+

M

GA +%

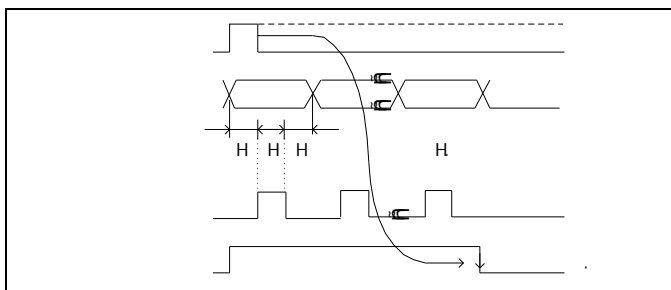


GA +\$ C: :

CB % %

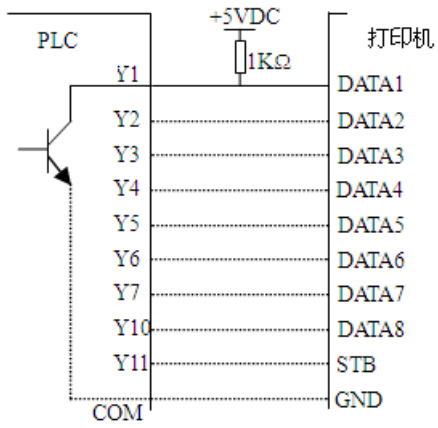
<\$ \$ BI @

GA +\$ CB



%

&



% Ω

\$

)J 87

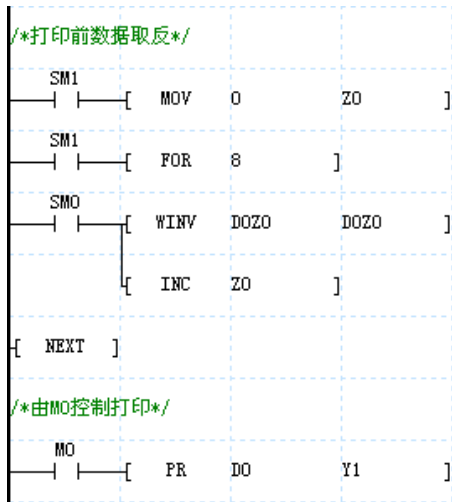
%

M0%

:: M\$!M+

8\$!8+

5G7=



%

&

GA +%

|-----|-----| [ <i>TKY</i> (<i>S</i>) (<i>D1</i>) (<i>D2</i>)]		
--	--	--

H? M

|---| |---| [ TRD (D)]														
8	KCF8									8			J	F

HF 8

+

8

MO	2000
[TRD D10]	

@8... A \$
HF 8... 8%

A \$ CB

8% +

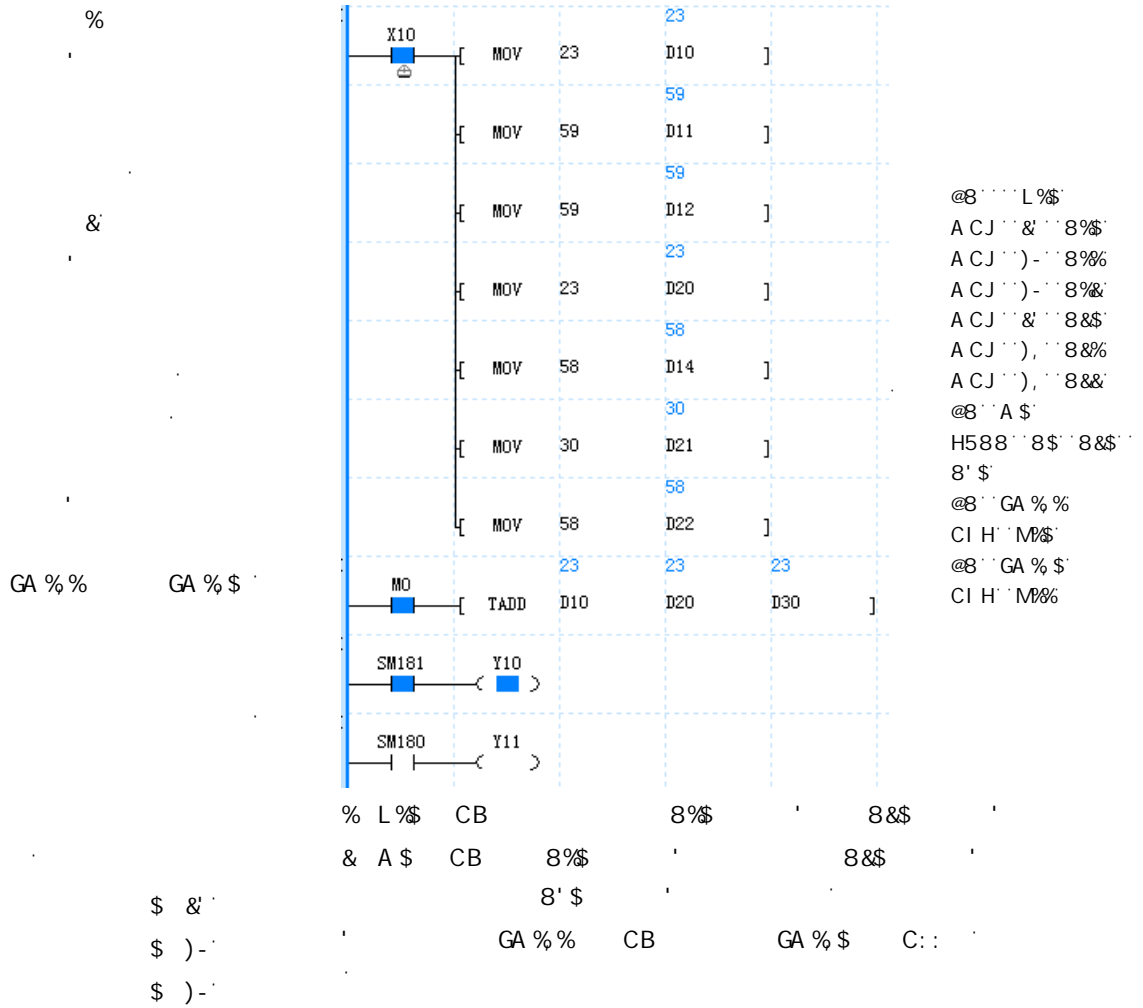
	G8%\$\$		&\$\$\$ &\$-		8%\$	
	G8%\$%		% %&		8%	
	G8%\$&		% ' %		8%&	
	G8%\$'		\$ &'		8%'	
	G8%\$(\$)-		8%('	
	G8%\$)		\$)-		8%)	
	G8%\$*		\$ *		8%*	

— — [TWR (S)]		

5 F 0 E S

TADD (S1) (S2) (D)												
G%	K CF8							8	G8		J	F
G&	K CF8							8	G8		J	F
8	K CF8							8			J	F

8&)-		8&&),		8' &)+
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G%			G&			8	
8%\$	&		8&\$	&		8' \$	&
8%%)-		8&&),		8' %),

[TSUB (S1) (S2) (D)]										M280										
G%	K CF8									8	G8							J		F
G&	K CF8									8	G8							J		F
8	K CF8									8							J		F	

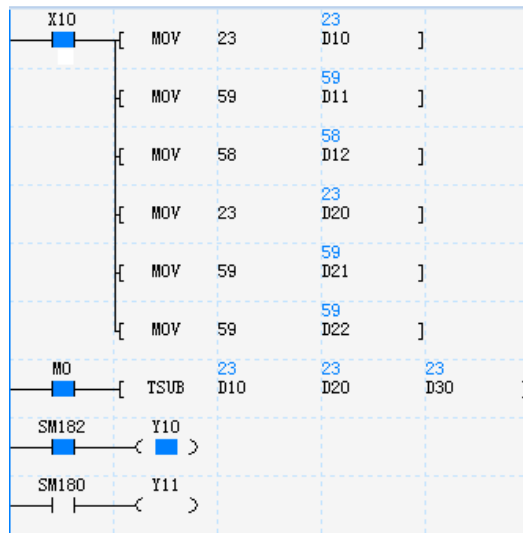
%

G%		G&		8	
8%\$	&	8&\$	&	8' \$	&
8%%)-	8&%)-	8' %)-
8%&)	8&&)-	8' &)-

&

GA % &

GA % \$



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 ACJ' &' 8%\$
 ACJ')- 8%%
 ACJ') 8%&
 ACJ' &' 8&\$
 ACJ')- 8&%
 ACJ')- 8&&
 @8' A \$
 HGI 6' 8%\$ 8&\$ 8' \$
 @8' GA % &
 CI H' M%\$
 @8' GA % \$
 CI H' M%\$

% L%\$ CB 8%\$ 8&\$
 & A \$ CB 8%\$ 8&\$
 8' \$

\$ &
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GA % & CB GA % \$ C::

[HOUR (S) (D1) (D2)]								M280							
G	=BH		?bL	?bM	?bA	?bG	?b@A	?bGA	8	G8	7	H	J	N	F
8%	=BH								8				J		F
8&	6CC@			M	A	G	@A								

D@7

FI B GHCD

\$

&

CB

' &+* +'

%

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CB

M0	[MOV 1000 1000 D100]
M1	[HOUR 1000 0 D100 D200 OFF M10]
M10	YO)

@8 ' ' A \$

A C J ' ' %\$\$\$ ' 8%\$\$\$

@8 ' ' A %

<C I F ' ' 8%\$\$\$ ' 8&\$\$\$ ' A %\$

@8 ' ' A %\$

C I H ' ' M\$

CB

% A \$ CB <C I F

& A % CB <C I F

' A % CB

%\$\$\$

A %

CB

%

D@7

.....

										M280					
[	]	[	]	DCMP=	(S1)	(S2)	(D)]						
[	]	[	]	DCMP<	(S1)	(S2)	(D)]						
[	]	[	]	DCMP>	(S1)	(S2)	(D)]						
[	]	[	]	DCMP<>	(S1)	(S2)	(D)]						
[	]	[	]	DCMP>=	(S1)	(S2)	(D)]						
[	]	[	]	DCMP<=	(S1)	(S2)	(D)]						
G%	-BH'								8	G8			J		F
G&	-BH'								8	G8			J		F
8	6CC@			M	A	G	@A				7	H			

q°

<p>%</p> <p>&</p> <p>8 CB</p> <p>C: :</p> <p>6-B</p> <p>&&&(-</p> <p>'% &&&' & &-</p>	SMO	[MOV	2004	2004	D0]	
	[	MOV	10	10	D1]		
	[	MOV	25	25	D2]		
	[	MOV	2004	2004	D10]		
	[	MOV	10	10	D11]		
	[	MOV	24	24	D12]		
	X0	[DCMP=	2004	2004	OFF	M0]
	[	DCMP<	2004	2004	OFF	M1]	
	[	DCMP>	2004	2004	ON	M2]	
	[	DCMP<>	2004	2004	ON	M3]	
	[DCMP>=	2004	2004	ON	M4]	
	[DCMP<=	2004	2004	OFF	M5]	

@8' GA \$

A CJ &&&('8\$

A CJ %\$' 8%

A CJ &' 8&

A CJ &&&('8%\$

A CJ %\$' 8%&

A CJ &(' 8%&

@8' L\$

87A D1 8\$8%\$A \$

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87A D02 8\$8%\$A '

87A D21 8\$8%\$A (

										M280																																																																	
<table border="0"> <tr> <td> </td><td> </td><td>[</td><td>TCMP=</td><td>(S1)</td><td>(S2)</td><td>(D)</td><td>]</td><td></td><td></td> </tr> <tr> <td> </td><td> </td><td>[</td><td>TCMP<</td><td>(S1)</td><td>(S2)</td><td>(D)</td><td>]</td><td></td><td></td> </tr> <tr> <td> </td><td> </td><td>[</td><td>TCMP></td><td>(S1)</td><td>(S2)</td><td>(D)</td><td>]</td><td></td><td></td> </tr> <tr> <td> </td><td> </td><td>[</td><td>TCMP<></td><td>(S1)</td><td>(S2)</td><td>(D)</td><td>]</td><td></td><td></td> </tr> <tr> <td> </td><td> </td><td>[</td><td>TCMP>=</td><td>(S1)</td><td>(S2)</td><td>(D)</td><td>]</td><td></td><td></td> </tr> <tr> <td> </td><td> </td><td>[</td><td>TCMP<=</td><td>(S1)</td><td>(S2)</td><td>(D)</td><td>]</td><td></td><td></td> </tr> </table>												[TCMP=	(S1)	(S2)	(D)]					[TCMP<	(S1)	(S2)	(D)]					[TCMP>	(S1)	(S2)	(D)]					[TCMP<>	(S1)	(S2)	(D)]					[TCMP>=	(S1)	(S2)	(D)]					[TCMP<=	(S1)	(S2)	(D)]								
		[TCMP=	(S1)	(S2)	(D)]																																																																				
		[TCMP<	(S1)	(S2)	(D)]																																																																				
		[TCMP>	(S1)	(S2)	(D)]																																																																				
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		[TCMP>=	(S1)	(S2)	(D)]																																																																				
		[TCMP<=	(S1)	(S2)	(D)]																																																																				
G%	=BH	8	G8	J	F																																																						
G&	=BH0	8	G8	J	F																																																						

8

HTOS (S) (D)												
G	K	CF8	?bL	?bM	?bA	?bG	H	7	8	G8		

[HCNT (D) (S)]															
8	8-BH										7				
G	8-BH		?bL	?bM	?bA	?bG	?b@A	?bGA	8	G8	7		J		F

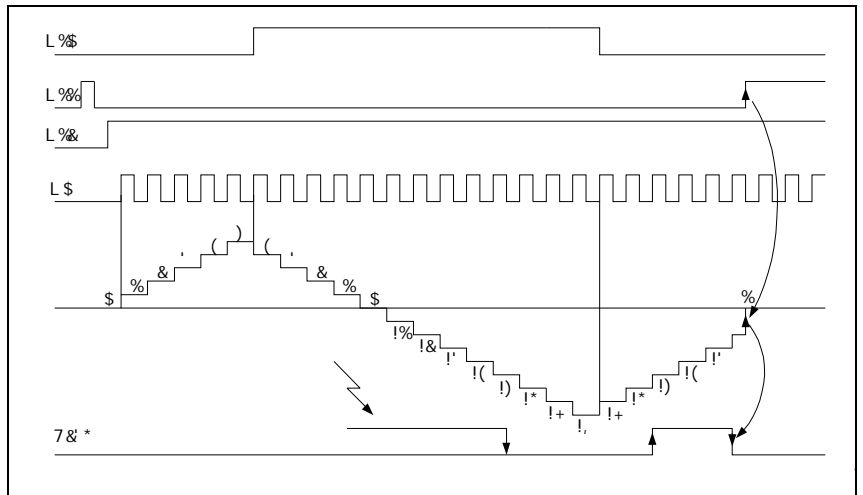
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&%+(,'*(, &%+(,'*(+

X10	SM236		
X11	[RST C236]	OFF	
X12	[HCNT C236]	0	-5

@8'''' L%\$
 CI H'' GA &''
 @8'''' L%
 FGH'''' 7&''
 @8'''' L%&
 <7BH'' 7&''''!



<7BH
 <7BH GD8

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€

% L%& C:: CB 7&* L\$ 7&*
 L%& C:: L\$ 7&*
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	L \$	L %	L &	L (L)	L *	L +	_<n		
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GDB								%\$\$	%\$	
#	\$#/\$	%#/%	&#/#	' #/'	(#/(') #/)	* #/ %	+ #/ +'	#	#

[DHSCS (S1) (S2) (D)]																
G%	8-BH'		? bL'	? bM'	? bA'	? bG'	? b@A'	? bGA'	8'	G8'	7'		J'		F'	
G&	8-BH'										7'					
8'	6CC@			M	A	G'										

' & 8-BH
 &%(, '* (, &%(, '* (+

7& * 7&)-
 M A

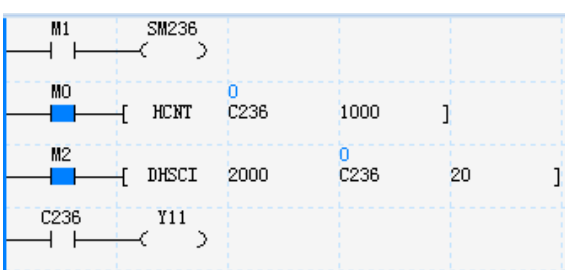
G

% 8<G7G
 <7BH
 <7BH
 8<G7G
 & 8<G7G

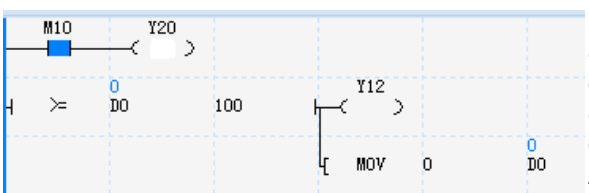
|-----|-----|-----| DHSCI (S1) (S2) (S3)]														
G%	8-BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7		J	F
G&	8-BH										7			
G	K CF8													

(D@7 8<G7G 8<G7= 8<G7F 8<GN
 8<GD 8<GH €
 ' & 8-BH
 &%(+,'*(, &%(+,'*(+)

7&* 7&)-
 &\$
 &
 <7BH
 C:: CB
 8<G7=



@8 A %
 CI H ... GA & *
 @8 A \$
 8<G7= \$\$\$ 7&* &\$
 @8 7&*
 CI H ... M%%



@8 A %
 CI H ... M\$
 @821 ... 8\$ %\$
 CI H ... M%&
 A C J ... \$ 8\$

% 8<G7=
 <7BH
 <7BH
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 8A C J A C J
 8<G7=
 ' 8<G7= 8<G7G 8<G7F
 8<GN 8<GD 8<GH
 *
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 % A % CB 7&* L\$ C:: CB L\$
 € 7&* --- %\$\$\$ 7&* %\$\$\$
 %\$\$\$ 7&* 7&* M%% M%%
 & A & CB 8<G7=
 7&* &\$\$\$ &\$
 ' A \$ CB GA & * 7&* A \$ C:: GA & *
 7&*
 (7&* 7&* &\$\$\$ &\$
 A %\$ CB M\$ M\$
 8\$ %\$ M%& 8\$

----- -----[DHSPI (S1) (S2) (S3)]															
G%	8-BH'		? bL'	? bM'	? bA'	? bG'	? b@A'	? bGA'	8'	G8'	7'		J'		F'
G&	8-BH'									G8'					
G'	K CF8'														

' & 8-BH
 &%(+,'*(, &%(+,'*(+
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)' ž(ž) ž *ž +ž, '"

0738'D

8 < GD< ' &\$ž W & < GD1

— — [DHSCR (S1) (S2) (D)]																
G%	8-BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7		J		F	
G&	8-BH										7					
8	6CC@			M	A	G					7					

& 8<G7F

8A CJ A CJ

8<G7F

' & 8-BH

' 8<G7F 8<G7= 8<G7G 8<GN 8<GDÉ 8<GH

8%+(, '* (, 8%+(, '* (+

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(D@7

8<G7G

M A

G 7

7

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C: : CB

8<G7F

M

M

8<G7F

% 8<G7F

<7BH

<7BH

8<G7F

— —[DHSZ (S1) (S2) (S3) (D)																	
G%	8-BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7		J		F		
G&	8-BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7		J		F		
G	8-BH										7						
8	6CC@			M	A	G											

},», 0 0

% ' & 8-BH

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& ' & ~~8-BH~~™ IRQH™ ty

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7& * 7&) -

--- --- [DHST (S1) (S2) (S3)]																
G%	8-BH									8						F
G&	-BH															
G	8-BH											7				

8
 8
 M
 8
 % %&
 7&* 7&-

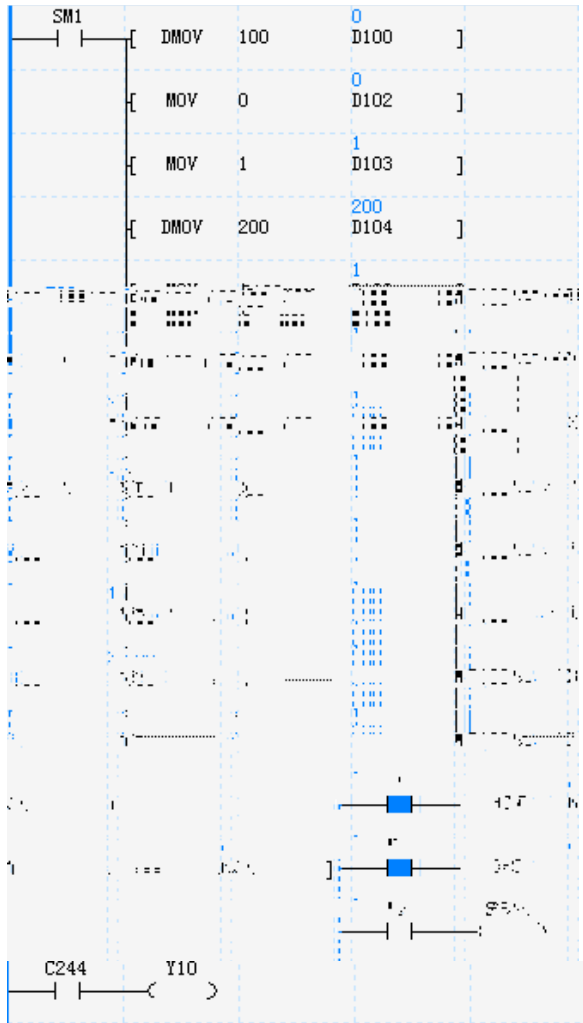
% 8<GH <7BH
 <7BH
 C: : CB

& 8<GH 8<GD 8<GH
 8<GH 8<GD 8<GH 8<GD
 8<GH 8<GD

(D@7 8<G7G
 8<G7= 8<G7F 8<GN 8<GD 8<GH
 #C

(8<GH

8%\$\$1\$	8%\$%1%\$\$	8%\$\$&1\$	8%\$' 1%	%
8%\$(1\$	8%\$) 1&\$\$	8%\$* 1%	8%\$+1\$	&
8%\$, 1\$	8%\$- 1' \$\$	8%\$\$&1&	8%\$\$%1%	
8%\$\$&1\$	8%\$' 1' \$\$	8%\$\$ 1'	8%\$\$) 1%	(%



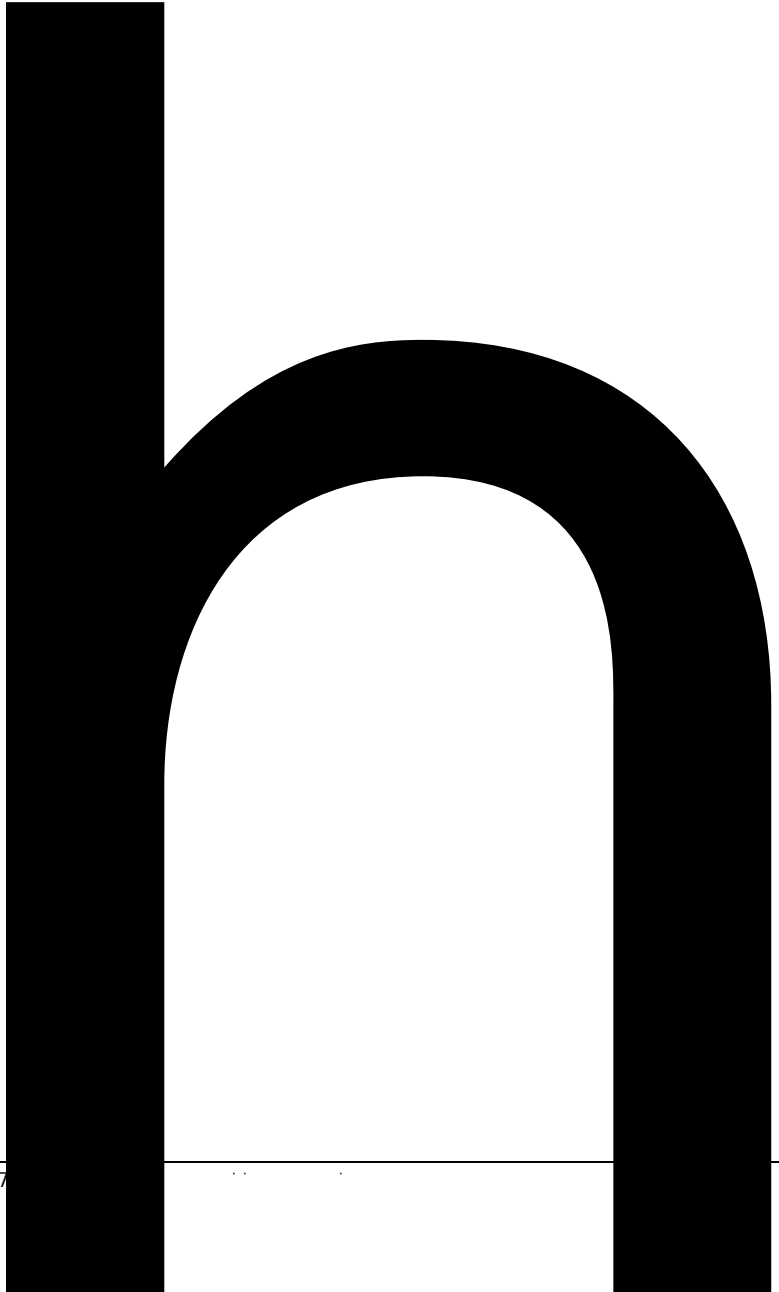
```

@8'''' GA %
8A CJ'' '$$' 8%$$
A CJ'' '$' ' 8%$$
A CJ'' '% ' 8%$
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A CJ'' '% ' 8%$*
A CJ'' '$' ' 8%$+
8A CJ'' '$$' 8%$,
A CJ'' '&' ' 8%$$
A CJ'' '% ' 8%$$
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A CJ'' '% ' 8%$$
@8'''' A $
<7BH'' 7&(( ' '$$$
@8'''' A %
8<GH'' 8%$$' (' 7&((
@8'''' A &
CI H'''' GA &((
@8'''' 7&((
CI H'''' M$
    
```

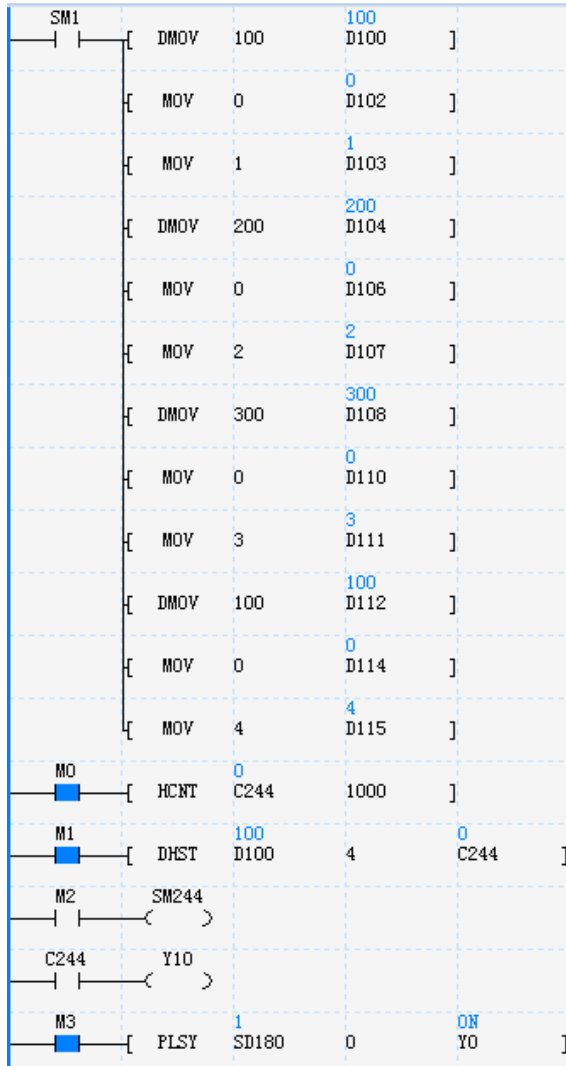
```

%
8%$$ 8%$$
& A $ L* CB 7&(( L$ C:: CB € 7&(( --- %$$$
7&(( %$$$ %$$$ 7&(( 7&(( M$ M$
' A % CB 8<GH % %
& %
GA %) G8% ( G8% & G8%'
( A & CB GA &(( CB 7&(( A & C:: GA &(( C:: 7&((
) L* C:: 7&((
* A $ L* CB L& CB 7&(( $ 7&((
    
```

|—| |—| [ DHSP (S1) (S2) (S3)]			
G%	8-BH		8
G&	-BH		F



8%\$1\$	8%\$%1%\$	8%\$&1\$	8%\$' 1%	%
8%\$(1\$	8%\$) 1&\$	8%\$*1\$	8%\$+1&	&
8%\$, 1\$	8%\$- 1' \$\$	8%\$%1\$	8%\$%1'	'
8%\$&1\$	8%\$' 1' \$\$	8%\$(1\$	8%\$) 1((
				%



```

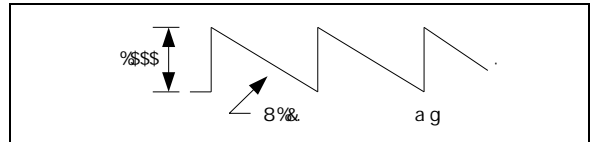
@8 ..... GA %
8A CJ ... %$ 8%$
A CJ ... $ 8%$&
A CJ ... % 8%$
8A CJ ... &$ 8%$(
A CJ ... $ 8%$*
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8A CJ ... $$ 8%$,
A CJ ... $ 8%$%
A CJ ... 8%$%
8A CJ ... %$ 8%$&
A CJ ... $ 8%$(
A CJ ... ( 8%$)
@8 ..... A $
<7BH ... 7&( ... %$
@8 ..... A %
8<GD ... 8%$ ( ... 7&(
@8 ..... A &
CI H ... GA &(
@8 ..... 7&(
CI H ... M$
@8 ..... A '
D@GM ... G8% $ ' M$
    
```

```

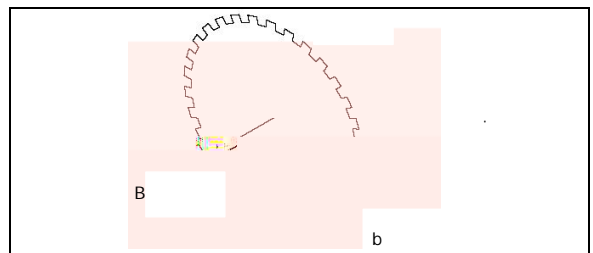
%                               8%$ 8%)
& A $ L*      CB  7&( L$ C:: CB      €                7&( --- %$$$
7&(          %$$$ %$$$ 7&(          7&(          M$ M$
'   A % CB    8<GD                                     %      %
&
      GA %)      G8% (                G8% & G8%'
                G8% $ G8% %
      G8% $ G8% %      $
(   A & CB    GA &( CB 7&(          A & C::   GA &( C:: 7&(
)   L* C::   7&(
*   A $ L*   CB      L& CB 7&(          $      7&(
    
```

|—| |—| [ SPD (S1) (S2) (D)]			
G%	6CC@	L	
G&	K CF8	? bL	? bM ? bA ? bG ? b@A ? bGA
8	K CF8		8 G8 7 H J N F

L\$ L) ag G&2\$
*)')'



L\$ L) ag

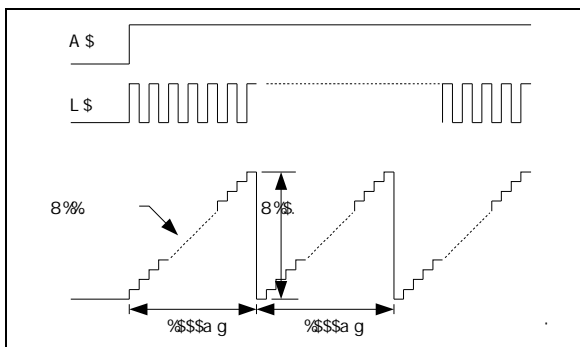


% GD8 < 7BH
610 IO
& GD8 L\$ L)
' GD8 %<n %<n
(GD8

% A \$ CB L\$ \$\$\$a g
8% 8%
\$\$\$a g 8% \$\$\$a g
& 8%
' L\$ C:: CB \$\$\$a g
8%

SMD	[PLSY	10000	0	ON YO
MO	[SPD	ON XO	1000	10000 D10

@8 GA \$
D@GM %\$\$\$ \$ M\$
@8 A \$
GD8 L\$ %\$\$\$ 8%



* D@GM

DK A D@GF

| | | [ PLSY (S1) (S2) (D)] +									DK A D@GM D@GF						
G%	8-BH		?bL	?bM	?bA	?bG	?b@A	?bGA	8<G8	G8<7B	7<D@GM	8<G7G	8<G7F	8<GN	8<GD
G&	8-BH		?bL	?bM	?bA	?bG	?b@A	?bGA	8<G8	G8<7B	7<D@GM	J		F	
8	6CC@			M											

<n
 A 7%\$\$ A 7&\$\$ % %\$\$\$\$ <n A 7&,\$
 % &\$\$\$\$ <n \$ %\$\$\$\$

M1	[PLSY 1000 10000 OFF Y1]
	[PLSY 1000 10000 OFF Y0]

D@G

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\$

A 7%\$\$ A 7&\$\$ M\$

M% A 7&,\$ M\$ M% M& M M(
 M) M* M+

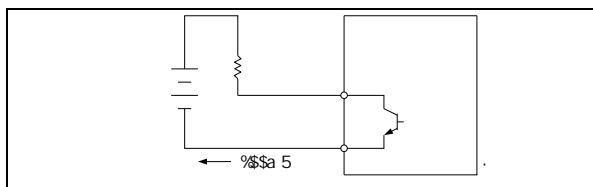
D@7

% D@7

& D@7

D@7

D@GM DK A D@GF



(C:: DK A D@GM
 D@GF

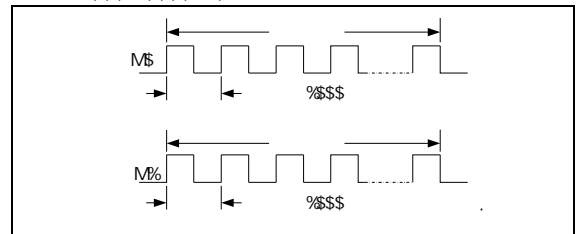
\$\$a 5

)

@B`A %

D@GM%\$\$\$%\$\$\$M%

D@GF %\$\$\$%\$\$\$M\$



% A % CB M\$ M% %\$\$\$

\$\$\$<n %\$\$\$

A \$ C:: CB

A \$ C:: C::

&)\$ CB)\$ C::

M

M\$

DCFH\$ M% DCFH%

' GA , \$ M\$ GA , % M%

%

(GA , & GA , ' M\$ M%

A \$ C::

) G8)\$ M\$ D@GM D@GF

G8)% M\$ D@GM D@GF

G8)& M% D@GM D@GF

G8)' M% D@GM D@GF

G8)(M\$ M% D@GM

D@GF

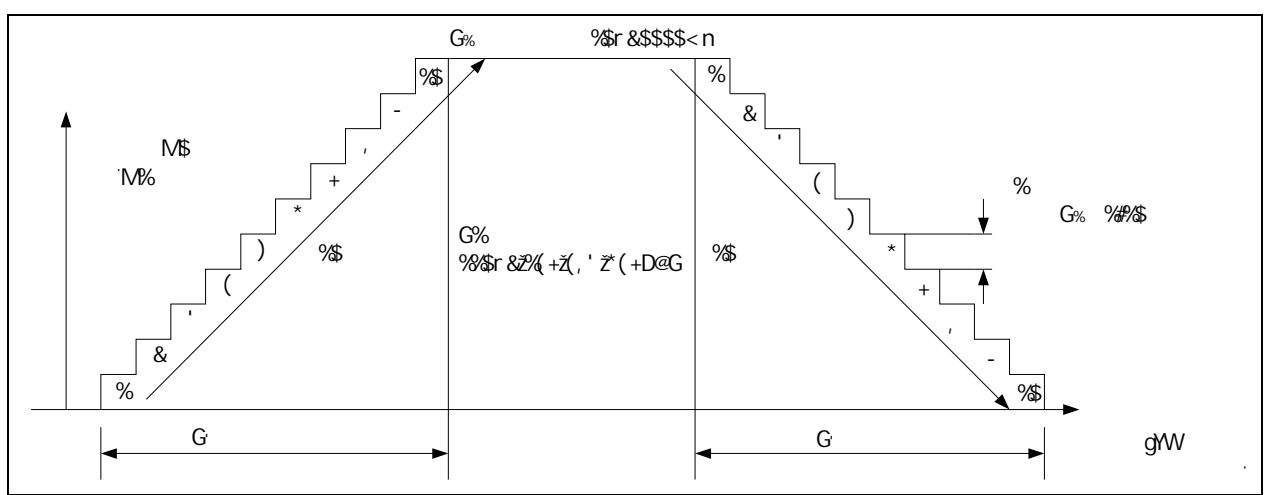
G8)) M\$ M% D@GM D@GF

* G8)\$ G8)) 8A CJ ... G8)
 A CJ ... G8)
 + D@GM
 8 < GD

|---|---| PLSR (S1) (S2) (S3) (D)															
G%	K CF8		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F
G&	8-BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7		J		F
G	K CF8		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F
8%	6CC@			M											



<n %\$ &\$\$\$\$ <n A 7%\$\$)\$a g
 &\$\$\$\$ &\$\$\$\$ %\$
 %\$ %\$ #/\$
 D@G %\$ A 7%\$\$ A 7&\$\$z
 M\$ M% A 7& \$z M\$ M% M& M
 M(M) M* M#
 a g
 0%\$\$\$\$ 1%\$\$\$\$#
 D@GF
 2G& -\$- 1G& -\$- #
 D@GF



% %\$ &\$\$\$\$<n

% A \$ CB

M\$ M%

%\$

A \$

C::

CB

A \$ C::

& D@7

C::

M\$ DCFH\$

&

M% DCFH%

A \$

CB C::

CB

' GA , \$

M\$

GA , %

M%

GA , \$ GA , % %

(& D@GF

(GA , & GA , '

M\$

M%

A \$ C::

GA , & GA , '

C::

DK A D@GM

GA , & GA , ' CB

) DK A D@GM D@GF

) G8)\$ G8))

* 8<G7G 8<G7F 8<GN 8<GD
8<GH <7BH D@GF

MO	PLSR	10	110	1000	OFF Y1
	PLSR	10	110	1000	OFF Y0

@8 ' ' A \$
D@GF ' '\$ ' '\$ ' '\$\$\$ ' M%
D@GF ' '\$ ' '\$ ' '\$\$\$ ' M\$

* G8)\$ G8)) 8A CJ ' ' G8)
A CJ ' ' G8)

|—| |—| [ PLS (S1) (S2) (D1)]															
G%	K CF 8		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F
G&	8-BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7		J		F
8%	6CC@			M											

8
\$ 8))
A 7%\$\$ A 7&\$\$
M\$ M% A 7& \$Z M\$ M% M& M
M(M) M* M+

%

D@G

&

\$
GA, \$ GA, %

(

8

A

D@GSG9H

b

& P
 F_{aU} F_{aJb} F_N B
 T_{down} T_{up}

$$P \frac{fF_N F_N \% \& fF_N F_N \% \& T_{up}}{\&\&\& fF_{aU} F_{aJb} \&}$$

$$P \frac{fF_N F_N \% \& fF_N F_N \% \& T_{down}}{\&\&\& fF_{aU} F_{aJb} \&}$$

F_{aJb}

$$P \frac{fF_{\%} F_{aJb} \& fF_{\%} F_{aJb} \& fV_{up} T_{down} \&}{\&\&\& fF_{aU} F_{aJb} \&}$$

$$P \frac{fF_M F_M \% \& fF_M F_M \% \& fV_{up} T_{down} \&}{\&\&\& fF_{aU} F_{aJb} \&}$$

(D@7

)

%

D@G

DHC

D@G

* D@GMD@GF D@G

[]															
G%	K CF8		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F
G&	K CF8		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F
G	8-BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7		J		F
G(	K CF8		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F
8%	6CC@			M											

fa GL

\$ &\$\$\$<n

<N

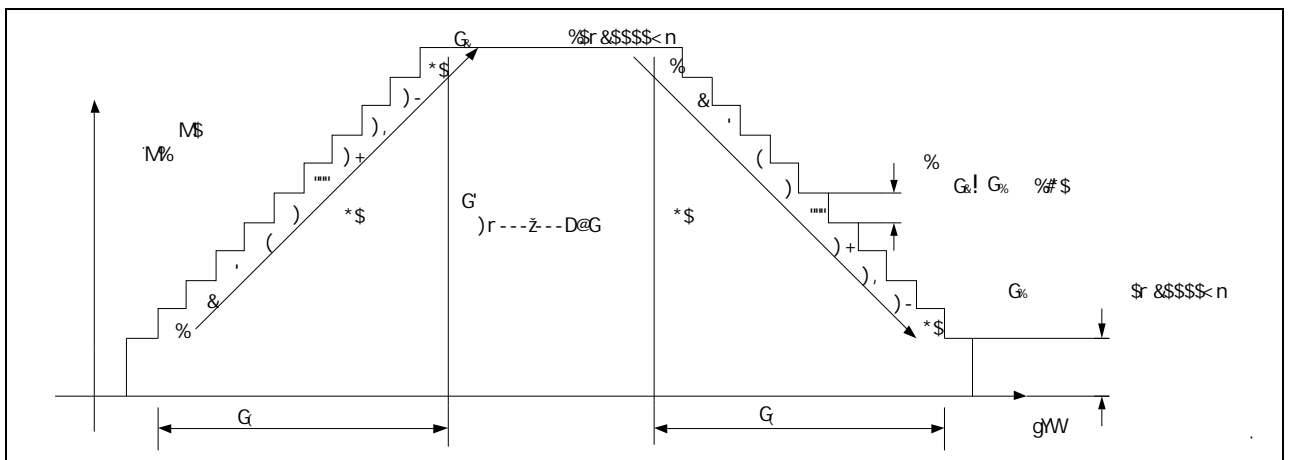
% &\$\$\$<n

A 7%\$ A 7&\$z M\$ M% A 7& \$z

M\$ M% M& M M(M) M* M+

fD@GL

)!-----



% %!&\$\$\$\$<n

MO	[	PLSB	100	10000	10000	1000	OFF	Y1]
	[	PLSB	100	10000	10000	1000	OFF	Y0]

&

@8 ' ' ' A \$

D@GF ' '\$\$ ' '\$\$\$\$ ' '\$\$\$\$ ' '\$\$\$ ' M%

D@GF ' '\$\$ ' '\$\$\$\$ ' '\$\$\$\$ ' '\$\$\$ ' M\$

% A \$ CB M\$ M%

\$\$\$\$ A \$ C::

CB A \$ C::

C::

&

A \$ CB C:: CB

(

' GA , \$ M\$ GA , % M%

GA , \$ GA , % %

)

fl t

(GA , & GA , ' M\$ M%

A \$ C:: GA , & GA , ' C::

GA , & GA , ' CB

*

& D@G6

M\$\$\$ M\$\$%

DK A D@GM

) G8)\$ G8))

+

DK A D@GM D@G6

, 8<G7G 8<G7F 8<GN 8<GD
8<GH <7BH D@G6

-

M\$ M%

* G8)\$ G8)) 8A CJ ' ' G8)

A CJ ' ' G8)

--- --- [PWM (S1) (S2) (D)]																
G%	=BH'		?bL'	?bM'	?bA'	?bG'	?b@A'	?bGA'	8'	G8'	7'	H'	J'	N'	F'	
G&	=BH'		?bL'	?bM'	?bA'	?bG'	?b@A'	?bGA'	8'	G8'	7'	H'	J'	N'	F'	
8'	6CC@			M												

ag# g

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GA , (\$

GA , (%

g

ag

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GA , (\$

GA , (%

g

M%

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A 7%\$\$ A 7&\$\$z

M\$

M(M) M* M+

-

DK A

%

\$

C: :

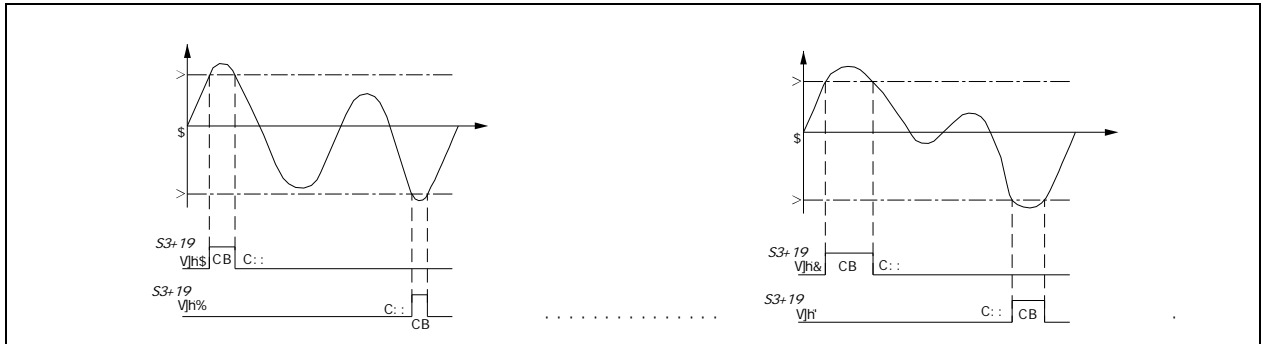
1



— — [PID (S1) (S2) (S3) (D)													
G%	≠BH								8				F
G&	≠BH								8				F
G	≠BH								8				F
8	≠BH								8				F

6+H&1CB 6+H&1CB 6+H)1C:: D-8
D-8

D-8



- D-8

	$\Delta MV = KP \left\{ (EV_n - EV_{n-1}) + \frac{T_s}{T_i} EV_n + D_n \right\}$ $9J_b \quad DJ_{bz} \% \quad GJ$ $8_b \quad \frac{H_b}{H_c} \quad \frac{8}{s} \quad H_b \quad DJ_{bz} \quad DJ_{bz} \% \quad \&DJ_{bz} \% \quad \frac{8}{H_c} \quad \frac{8}{s} \quad H_b \quad 8_b \%$ $A J_b \quad A J$
	$\Delta MV = KP \left\{ (EV_n - EV_{n-1}) + \frac{T_s}{T_i} EV_n + D_n \right\}$ $9J_b \quad GJ \quad DJ_{bz} \%$ $8_b \quad \frac{H_b}{H_c} \quad \frac{8}{s} \quad H_b \quad \&DJ_{bz} \% \quad DJ_{bz} \quad DJ_{bz} \% \quad \frac{8}{H_c} \quad \frac{8}{s} \quad H_b \quad 8_b \%$ $A J_b \quad A J$

9J _b		8 _b	
9J _b %	%	8 _b %	%
GJ		? D	
DJ _{bz}		H _c	
DJ _{bz} %	%	H ₋	
DJ _{bz} &	&	H _s	
A J		8	
A J			

#D-8

@8 GA % #
 A C J %\$\$\$ 8) \$\$ #
 A C J)\$\$ 8) %\$ # Hg % '&+*+ ag
 #
 A C J + 8) %% #
 A C J +\$ 8) %& # \$ --O Q \$
 A C J %\$\$\$ 8) % " # ?d % '&+*+O Q
 A C J &) 8) % (# H= \$ '&+*+ %\$\$\$ ag \$
 #

```

A CJ    $    8)% "  #    ? 8    $ %$O Q    $
A CJ    *    8)% "  #    H8    $ ' &+*+    %$a g    $
      #
: A CJ  $    8)%+ "  #    D-8
A CJ    &$ $$    8) & "  #    $ ' &+*+
A CJ    &$ $$    8) &* "  #    $ ' &+*+
A CJ    &$ $$    8) &+ "  #    $ ' &+*+
A CJ    &$ $$    8) & "  #    $ ' &+*+
#D-8
@8    A $    #    D-8
: FCA  $ )    8) $ %    %    #
D-8    8) $ $ 8) $ % 8) $ % 8) $ &    #D-8    D-8 G%G&G ' 8
HC    $    8) $ &    %    #D-8
      #    D-8
    
```

SM1	[	MOV	1000	1000	D500]			
	[	MOV	500	500	D510]			
	[	MOV	16#7	7	D511]			
	[	MOV	70	70	D512]			
	[	MOV	100	100	D513]			
	[	MOV	25	25	D514]			
	[	MOV	0	0	D515]			
	[	MOV	63	63	D516]			
	[FMOV	0	26	D517	8]			
	[	MOV	2000	2000	D525]			
	[	MOV	2000	2000	D526]			
	[	MOV	2000	2000	D527]			
	[	MOV	2000	2000	D528]			
MO	[FROM	0	5	631	D501	1]		
	[PID	1000	631	500	D501	D510	24349	D502]
	[TO	0	8	24349	D502	1]		

```

%
$ @8 GA $ ' ' A CJ $ 8| | | |
& D-8 &$
' HG % %a g
% HG D-8
( D-8 D-8
) D-8
* 6+H& 6+H) CB
6+H& 6+H) C::
+ D-8 D-8
% D-8
- D-8
D-8
    
```

L & 1CB

5#8

8#5

D-8

D-8

D-8

D-8

D-8

RAMP (S1) (S2) (D1) (S3) (D2)															
G%	=BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F
G&	=BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F
8%	=BH								8				J		F
G	=BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F
8&	6CC@			M	A	G	@A				7	H			

%

&

G%G& 8%G& 8&1CB

(F5A D <57?@9 HF =5B; @9

%\$

)"F5A D <57?@9 HF =5B; @9

\$

\$

CB

CB

C: :

#

@8 GA %

A CJ \$'8\$

A CJ &\$\$\$8%

#L \$1CB

@8 L \$

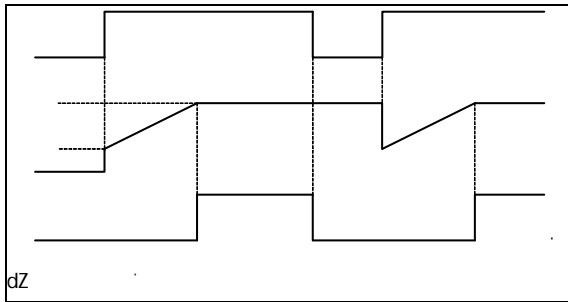
F5A D 8\$8%8%\$\$\$A \$

#L %1CB

85

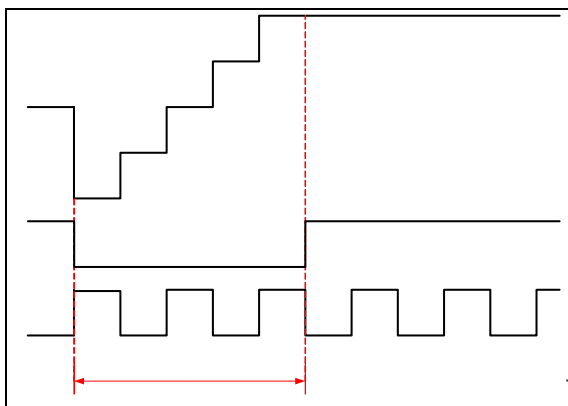
@8 L %

HC \$*8%\$%



dZ

1)



SM1	[	MOV	0	0	DO]
	[	MOV	2000	2000	D1]
X0	[	RAMP	0	2000	2000	1000 ON MO
X1	[	TO	0	6	D10	1

% L \$1CB

8%

8%\$18\$1\$

& &\$\$\$#\$\$\$

8%\$18%&\$\$\$

8%

A \$1CB

C: :

8%\$18\$

&

[HACKLE (S1) (S2) (D1) (S3) (D2)]															
G%	-BH'		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H'	J'	N'	F'
G&	-BH'		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H'	J'	N'	F'
8%	-BH'								8				J'		F'
G	-BH'		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H'	J'	N'	F'
8&	6CC@			M	A	G	@A				7	H'			

%

& 1 1 1CB
 F5AD <57? @9 HF-5B; @9
 %\$\$

\$

##

@8 GA %
 ACJ \$8\$
 ACJ &\$\$\$8%
 ## \$1CB
 @8 L \$
 <57? @9 8\$8%8%\$%\$\$\$A \$
 ## \$1CB 85

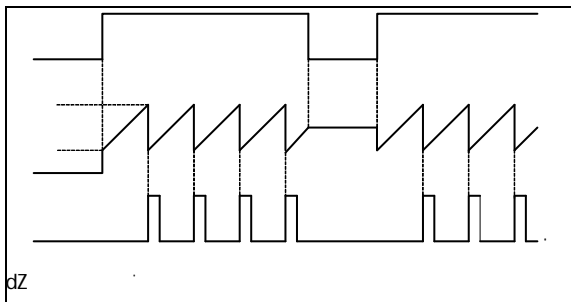
CB

CB

C::

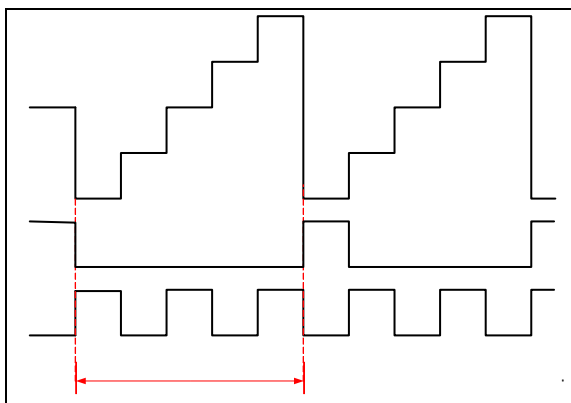
C::

@8 L %
 HC \$%8%\$%



1)

SM1	[	MOV	0	D0]		
	[	MOV	2000	D1]		
X0	[HACKLE	D0	D1	D10	1000	MO]
X1	[TO	0	1	D10	1]	



% L \$1CB 8%
 8%\$18\$1\$ & &\$\$\$#/\$\$\$ 8%\$18%&\$\$\$
 A \$1CB L \$ CB
 8%\$18\$1\$ A \$1C::
 C::
 &

[TRIANGLE (S1) (S2) (D1) (S3) (D2)]															
G%	=BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F
G&	=BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F
8%	=BH								8				J		F
G	=BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F
8&	6CC@			M	A	G	@A				7	H			

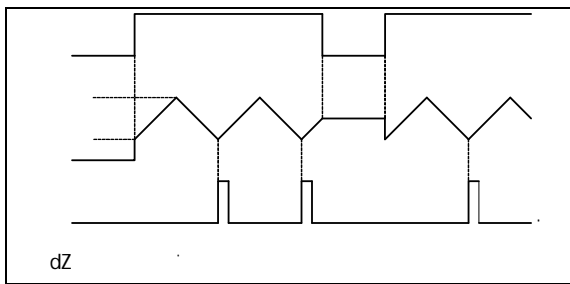
G \$

CB

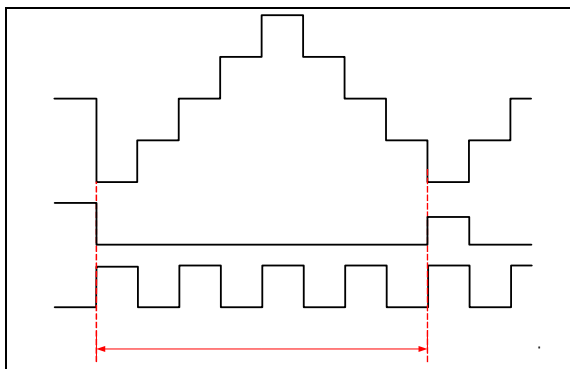
CB

C::

C::



1)



%

&

1 1 1CB

(1 % &

) F5A D <57?@9 HF-5B; @9
%\$

##

@8 GA %

A CJ \$8\$

A CJ &\$\$\$8%

##L \$1CB

@8 L \$

HF-5B; @9 8\$8%8%\$%\$\$\$A \$

##L %1CB

85

@8 L %

HC \$%8%\$%

SM1	[	MOV	0	0	DO]		
	[	MOV	2000	2000	D1]		
X0	[TRIANGLE	0	2000	1364	1000	OFF	MO]
X1	[TO	0	1	1364	1]		

% L \$1CB

8%

8%\$18\$1\$ & &\$\$\$#\$\$\$ 8%\$18%&\$\$\$

8% &

8%\$18\$1\$

A \$1CB

L \$ CB

A \$1C::

C::

&

| | [ ABSD]														
G%	-BH'		? bL'	? bM'	? bA'	? bG'			8'		7'	H'		F'
G&	-BH'										7'			
8'	6CC@'			M	A'	G'								
G'	K CF8'													

b (

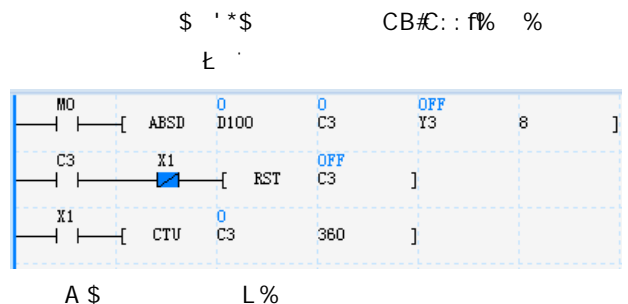
% *

% b fl b & t

b CB#C::

& # b &

G% G% &b %

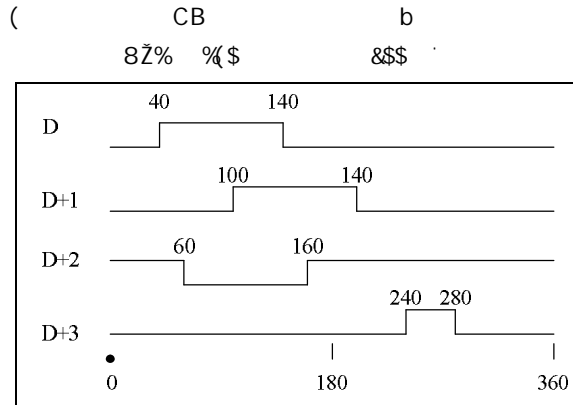


	(\$	Z%	% \$	
Z&	%% \$	Z'	&\$ \$	Z%
Z(% \$	Z)	* \$	Z&
Z*	&(\$	Z+	& \$	Z'
A	A	A	A	A
Z&b		Z&bZ%		Zb!%

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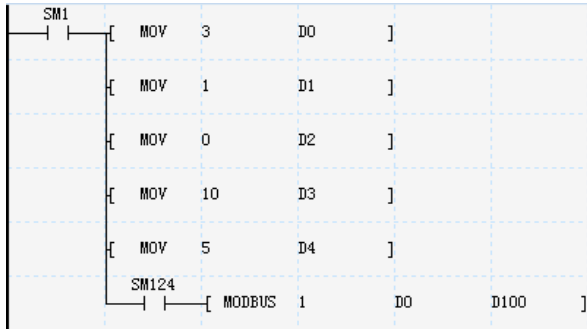
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[ALT]		

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@8 GA %

A CJ ' ' ' 8\$

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A CJ ' ' \$ ' 8&

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5B8 GA %&(

A cXVi g%8\$'8%\$\$

% A cXVi g 8\$

& 8%\$\$

' A cXVi g 7F7

GA % *

G8% -

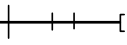
(GA %& GA %&

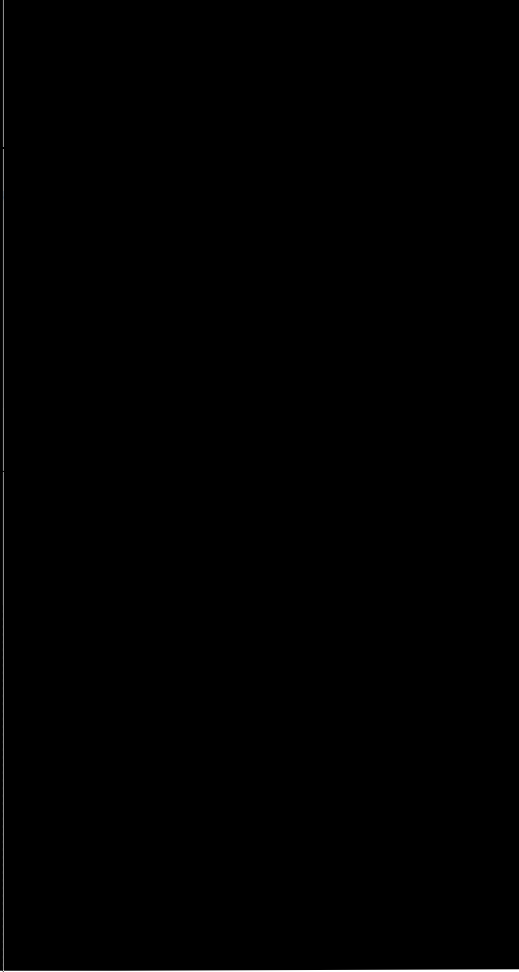
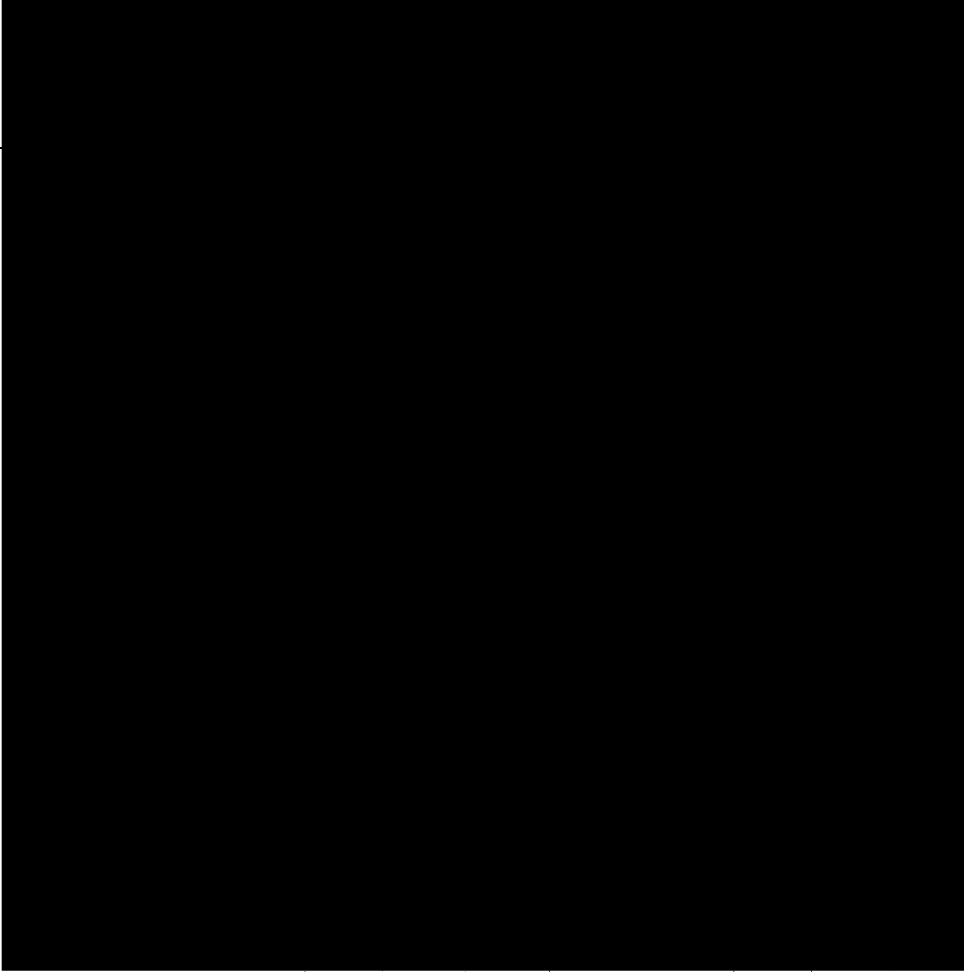
A C86I G A C86I G

A cXVi g

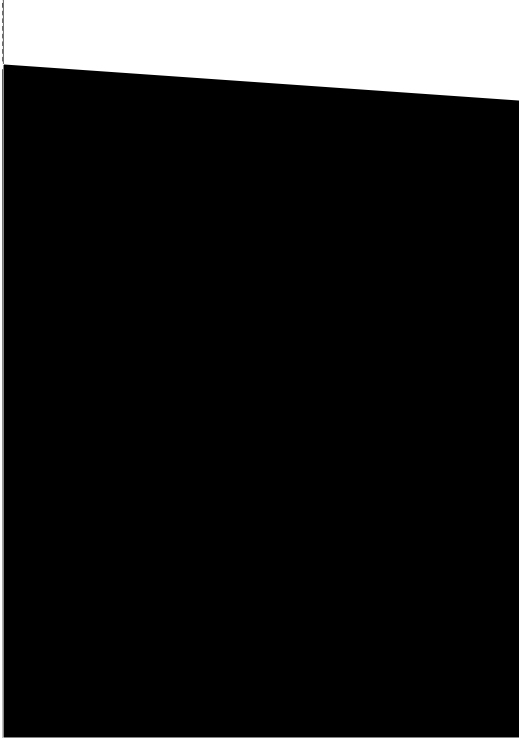
\$I \$%	
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A 7%\$ D@7

A' A C8FK

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A C8FK

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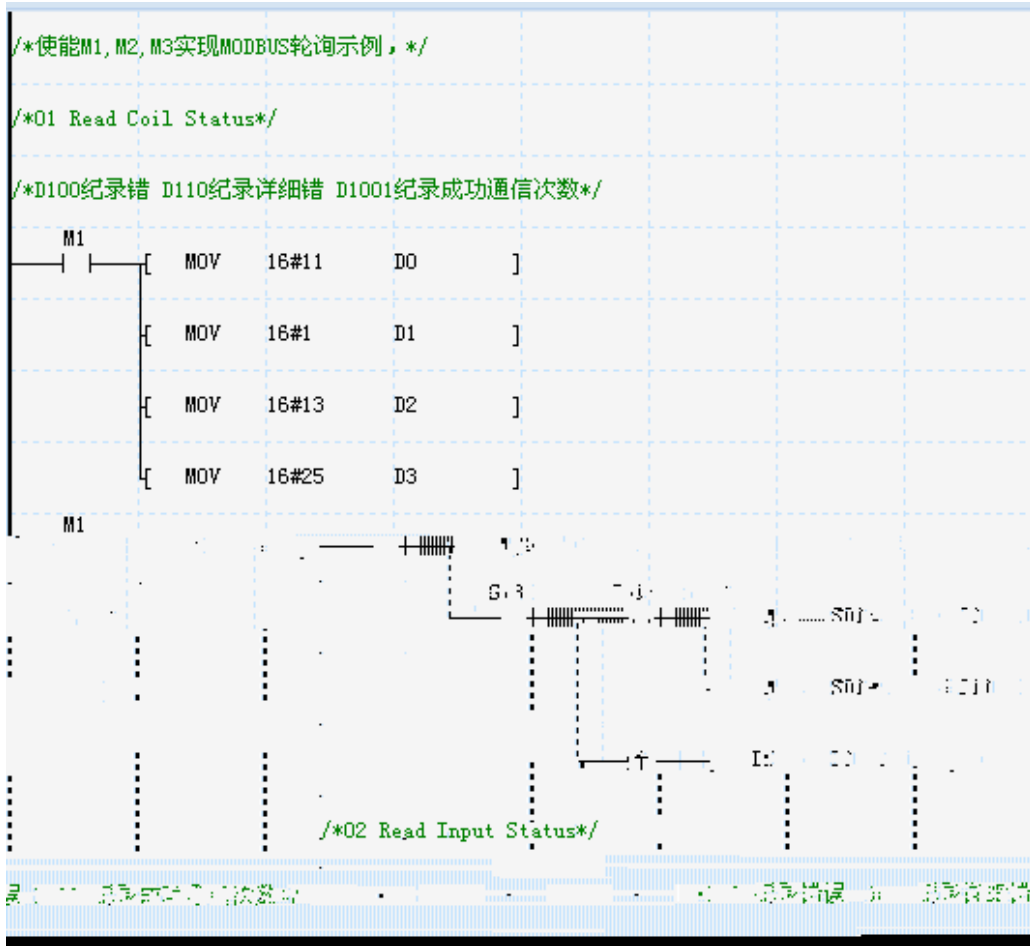
A C8FK

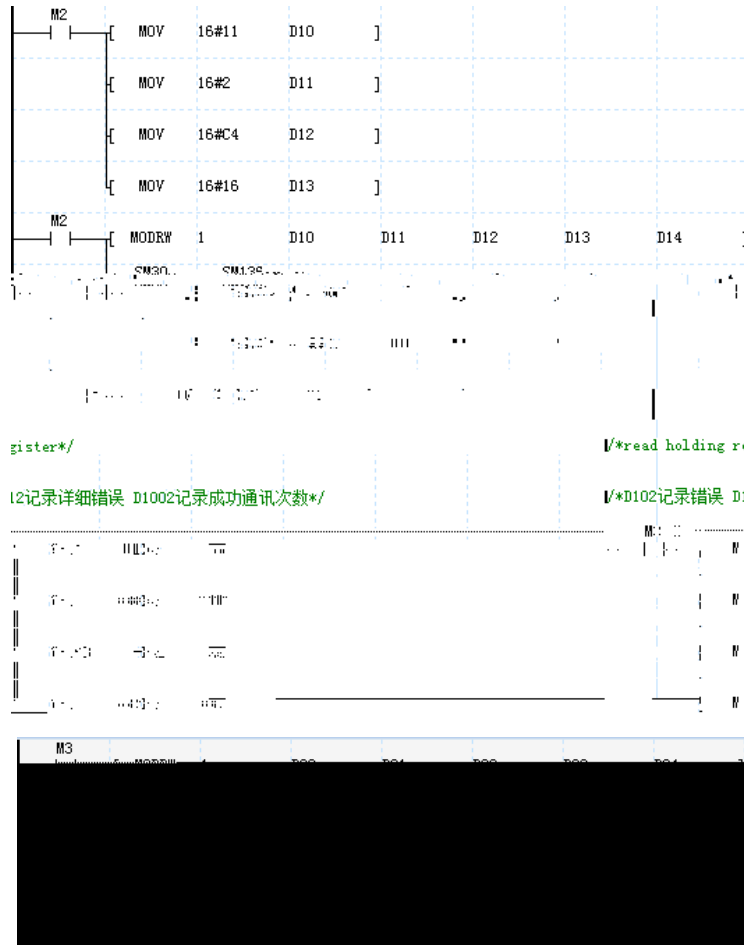
A C8FK

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GA '\$ GA %) A C8FK A C8FK

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& A 7%\$\$ A J *\$\$

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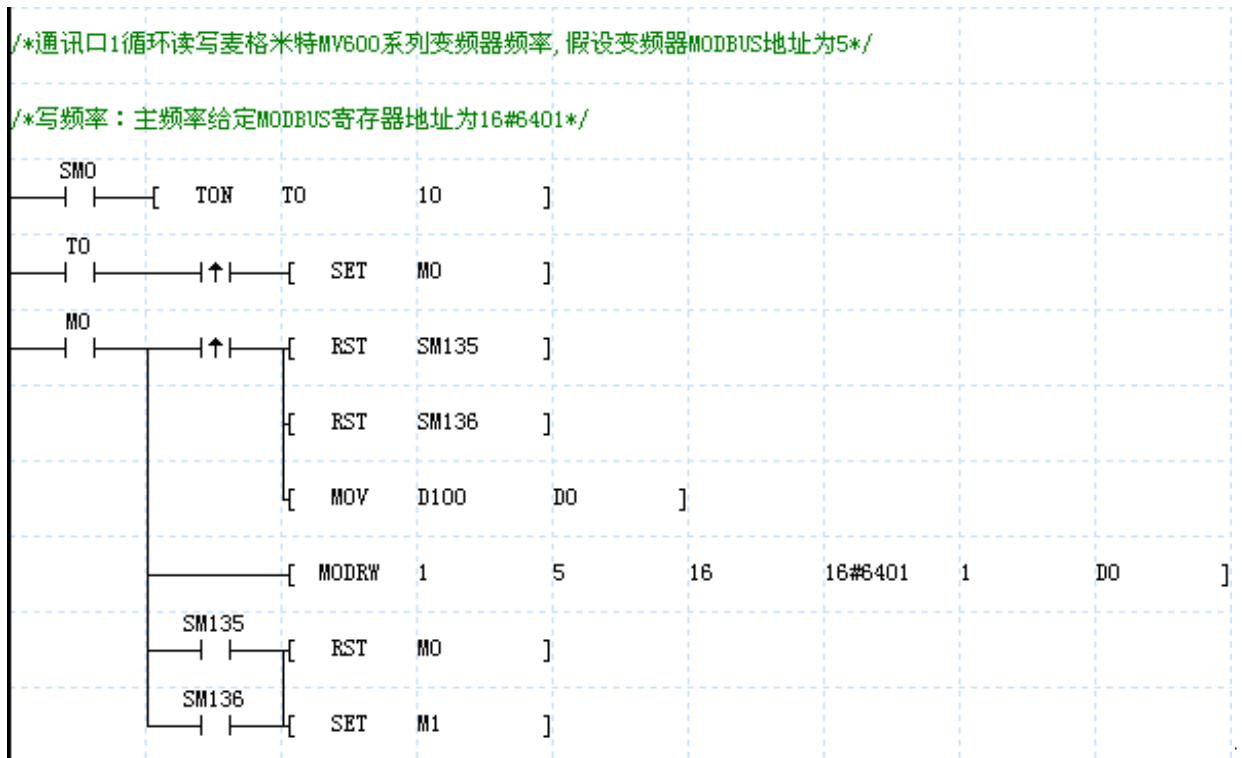
A 7%\$\$

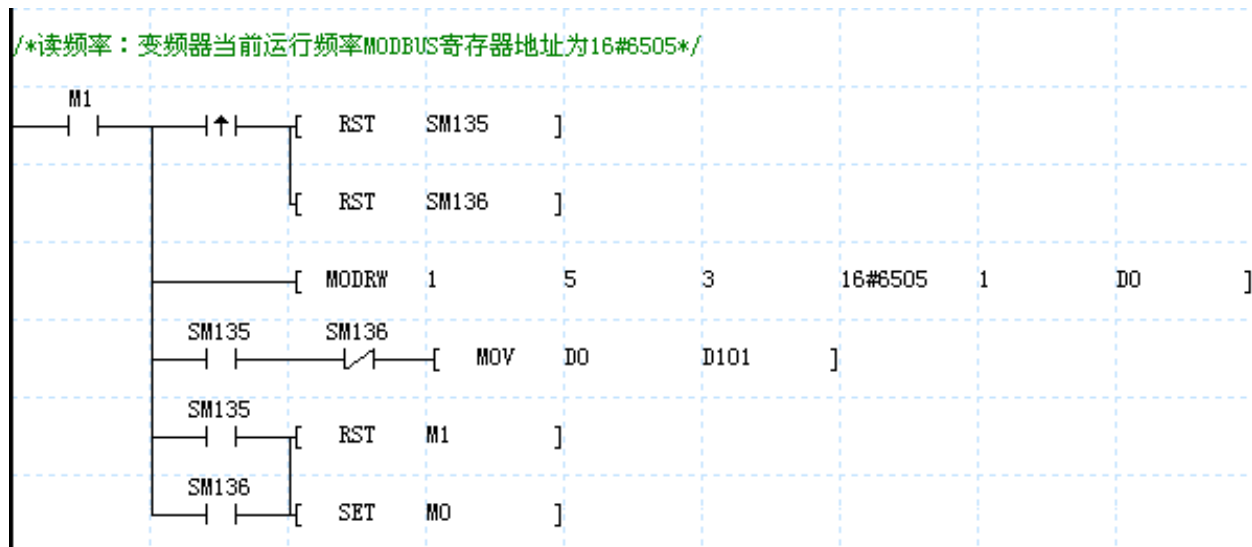
A J *\$\$

GA %)

H\$

GA % *





M90																
[MODLINK 1 D200 D46 M114 M156]																
G%	-BH'															
G&	-BH'	8'														
G	-BH'	8'														
G(6CC@			A	G					7	H					
G)	6CC@			A	G					7	H					

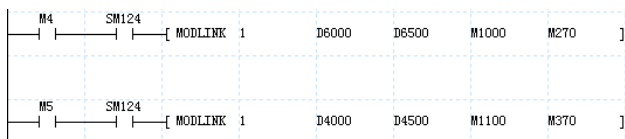
%

A C8@B? A C86I G
 A C8@B? A C8@B?
 A C8@B?
 A C8@B? A C86I G
 A C8@B?



8*\$\$\$

G&		
G&Z%	A	
G&Z&		\$
G&Z'		
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G&Z%&		
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G&Z%(
A		
A		



GA %&(

8			
.\$%		% &\$\$\$	G) % #%
.\$&		% &\$\$\$	G) % #%
.\$'		% %&	G)
.\$(% %&	G)
.\$)		\$fZl YXL	%
.\$*		\$fZl YXL	%
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.\$%		% %&	G)

A C8@B?

A C86I G

\$ B

G

G'	\$
G'Z%	%
G'Z&	&
A	
A	
G'ZB	B

G

A cXVi g

.\$I \$%	
.\$I \$&	
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G'	\$
G'Z%	%
G'Z&	&
A	
A	
G'ZB	B

— — [XMT (S1) (S2) (S3)]			
G%	BH		
G&	K CF8		

[RCV (S1) (D) (S2)]														
G%	=BH													
8	K CF8	8	J											F
G&	=BH		? bL	? bM	? bA	? bG	? b@A		8	G8	7	H	J	N F

&

\$ %

Ö f 7\$F %oY TM€ 5 F 6 Ê

GA %% GA %&% Ö f 7-b %öL TM€ 5 F 6 Ê RWV•D



%

8

J

8+---

J**

&

\$ %

SM1	[RCV 1 D20 5]
SM123	[INC D100]

@8 GA %

F7J % 8&\$')

@8 GA %&

=B7 8%\$\$

%

F7J

GA %

|---|---| CCITT (S1) (S2) (D)]														
G%	K CF8							8					J	F
G&	=BH	? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F
8	K CF8							8					J	F

\$

%

77=HH

& 77=HH

LR%& LR) %

%

LR%

SM1	[	MOV	16#0	0	D0]	
	[	MOV	16#11	17	D1]	
	[	MOV	16#22	34	D2	]	@8 GA %
	[	MOV	16#33	51	D3	]	A CJ % \$8\$
	[	MOV	16#44	68	D4	]	A CJ % %8%
	[	MOV	16#55	85	D5	]	A CJ % &&8&
	[	MOV	16#66	102	D6	]	A CJ % '8'
	[	MOV	16#77	119	D7	]	A CJ % ((8(
	[	MOV	0	28097	D100	]	A CJ % .) '8'
X0	[	MOV	0	28097	D100	]	A CJ % **8*
	[	MOV	0	28097	D100	]	A CJ % .++8+
	[	MOV	0	28097	D100	]	@8 L \$
	[	MOV	0	28097	D100	]	A CJ \$ '8\$ \$
	[	MOV	0	28097	D100	]	77=HH'8\$, 8%\$ \$
	[	CCITT	D0	8	D100]	

L \$1CB 8\$ 77=HH

8%\$

|-----|-----| CRC16 (S1) (S2) (D) |															
G%	K CF8								8				J		F
G&	=BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F
8	K CF8								8				J		F

\$

%

7F7%

& 7F7%

LR& %

LR% LR%

%

&

8

A cXVI g7F7

% : : : :

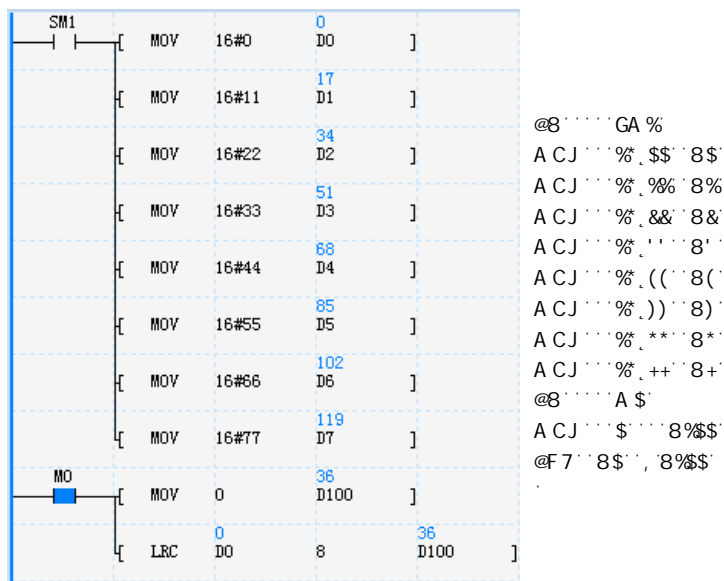
SM1	[	MOV	16#0	0	D0]	
	[	MOV	16#11	17	D1]	
	[	MOV	16#22	34	D2	]	@8 GA %
	[	MOV	16#33	51	D3	]	A CJ % \$ \$ ' 8 \$
	[	MOV	16#44	68	D4	]	A CJ % , % ' 8 %
	[	MOV	16#55	85	D5	]	A CJ % , & & ' 8 &
	[	MOV	16#66	102	D6	]	A CJ % , ((' 8 (
	[	MOV	16#77	119	D7	]	A CJ % ,)) ' 8)
X0	[	MOV	0	57708	D100	]	A CJ % , * * * ' 8 *
	[	CRC16	D0	8	57708	D100	A CJ % , + + ' 8 +

L \$1CB 8\$ 7F7%

8%\$

|—| |—| [ LRC (S1) (S2) (D)]															
G%	K CF8								8			J		F	
G&	≠BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F
8	K CF8								8				J	F	

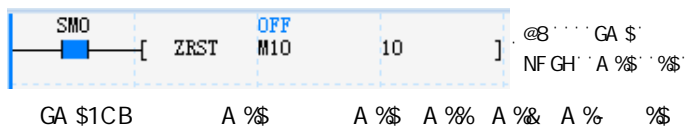
\$
@F7
%
&



L \$1CB 8\$, @F7
8\$ \$

|—| |—| [ ZRST (D) (S)]															
8	6CC@			M	A	G	@A			7	H				
G	≠BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F

% 7 7
& H H



| | [ ZSET (D) (S)]															
8	6CC@		M	A	G	@A				7	H				
G	=BH		?bL	?bM	?bA	?bG	?b@A	?bGA	8	G8	7	H	J	N	F

SMD [ZSET ON M10 10]
@8 GA \$ NG9H A % \$

GA \$1CB A %\$ A %\$ A %% A %& A % %\$

%

%

| | [ DECO (S) (D)]															
G	K CF8		?bL	?bM	?bA	?bG	?b@A	?bGA	8	G8	7	H	J	N	F
8	=BH		?bL	?bM	?bA	?bG	?b@A	?bGA	8	G8	7	H	J	N	F

\$ %
% \$

SMD [DECO 2 4 D9]
@8 GA \$ 8A 7C & 8-

8- & %

|—| |—| [ ENCO (S) (D)]															
G	≠BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F
8	≠BH		? bM	? bA	? bG	? b@A			8	G8	7	H	J	N	F

|-----|-----| [ BON (S1) (D) (S2)]															
G%	=BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7		J		
8	6CC@		M	A	G										
G&	=BH								8				J		F

M1 [BON 32 ON DO YO 5] @8 A %
6CB 8\$M\$)

G& 6CB 8\$) fCBŁ 8 fM\$Ł

|-----|-----| BLD (S1) (S2) |-----| )															
G%	K CF8		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F
G&	=BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F

BLD 1000 DO 5 |-----| YO) 6@8 .. 8\$)
CI H M\$

\$ %

8\$ %\$\$\$ & \$\$\$\$\$%0000%\$%\$\$\$ 6+) CB
M\$

|-----| BLDI (S1) (S2) |-( )															
G%	K CF8		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F
G&	=BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F

\$ %

1000
 | BLDI DO 5 |-(Y0)

 6@8= 8\$) CI H M\$
 8\$ %\$\$\$ & \$\$\$\$\$%0000\$%\$\$\$ 6+) CB
 C:: M\$

|-----| BLD (S1) (S2) |-( )															
6@8 65B8															
G%	K CF8		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F
G&	=BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F

\$ %

1000
 | BLDI DO 5 |-(Y0)

 @8 L\$
 65B8 8\$) CI H M\$
 %\$\$\$ & \$\$\$\$\$%0000\$%\$\$\$ 6+) CB L \$1CB
 M\$

<p>6@8=</p>															
<p>65B=</p>															
G%	K CF 8		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F
G&	=BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F

\$ %

8\$ %\$\$\$ & \$\$\$\$\$%0000\$%\$\$\$ 6#) CB C::

L\$1CB M\$

@8 L\$
65B= 8\$)
CI H M\$

<p>6@8</p>															
<p>6CF</p>															
G%	K CF 8		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F
G&	=BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F

\$ %

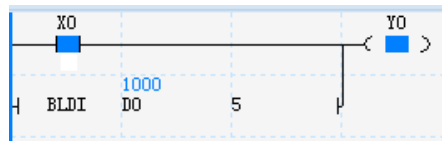
8\$ %\$\$\$ & \$\$\$\$\$%0000\$%\$\$\$ 6#) CB

L\$1CB M\$

@8 L\$
6CF 8\$)
CI H M\$

<p>6@8=</p>																		
G%	K CF 8		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F			
G&	=BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F			

\$ %



@8 L\$
6CF= 8\$)
CI H M\$

8\$ %\$\$\$ & \$\$\$\$\$%\$\$\$ 6+)

CB

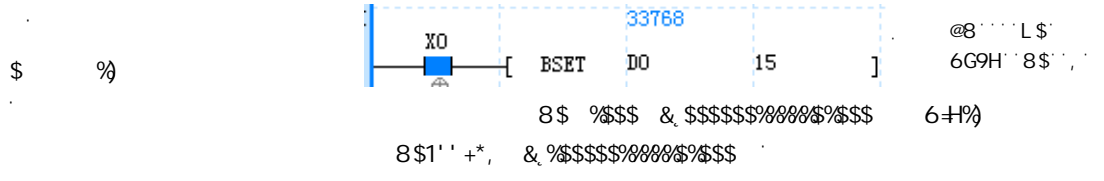
C: :

L \$1CB

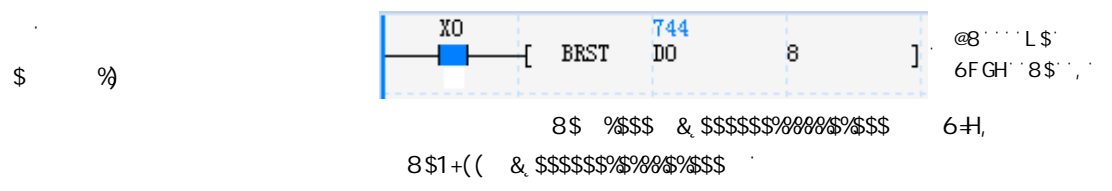
M\$

<p>BOUT (D) (S)</p>																		
8	K CF 8			? bM	? bA	? bG	? b@A		8		7	H	J	N	F			
G	=BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F			

| | [ BSET (D) (S)]																	
8	K CF8			? bM	? bA	? bG	? b@A		8		7	H	J	N	F		
G	=BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F		



| | [ BRST (D) (S)]																	
8	K CF8			? bM	? bA	? bG	? b@A		8		7	H	J	N	F		
G	=BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F		



	=	(S1)	(S2))											
	<	(S1)	(S2))											
	>	(S1)	(S2))											
	<>	(S1)	(S2))											
	>=	(S1)	(S2))											
	<=	(S1)	(S2))											
G%	-BH'		? bL'	? bM'	? bA'	? bG'	? b@A'	? bGA'	8'	G8'	7'	H'	J'	N'	F'	
G&	-BH'		? bL'	? bM'	? bA'	? bG'	? b@A'	? bGA'	8'	G8'	7'	H'	J'	N'	F'	

%
&

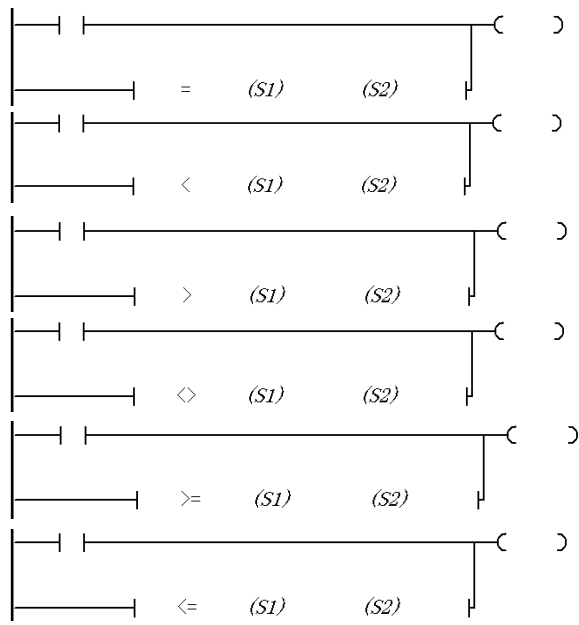
6-B





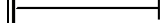



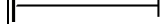



H	=	1000 D0	-2000 D1		Y0)
H	<	1000 D0	-2000 D1		Y1)
H	>	1000 D0	-2000 D1		Y2)
H	<>	1000 D0	-2000 D1		Y3)
H	>=	1000 D0	-2000 D1		Y4)
H	<=	1000 D0	-2000 D1		Y5)

8\$ 8%

6-B

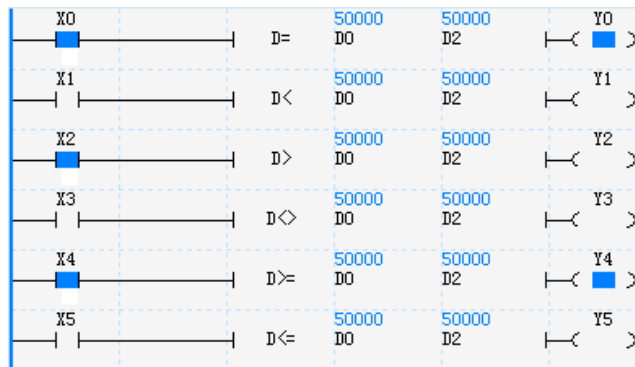
@81''''8\$8%
 CI H''''M\$
 @80''''8\$8%
 CI H''''M%
 @82''''8\$8%
 CI H''''&
 @802''''8\$8%
 CI H''''M''
 @821''''8\$8%
 CI H''''M(
 @801''''8\$8%
 CI H''''M)



	$D=$	$(S1)$	$(S2)$		\cup
	$D<$	$(S1)$	$(S2)$		\cup
	$D>$	$(S1)$	$(S2)$		\cup
	$D<>$	$(S1)$	$(S2)$		\cup
	$D>=$	$(S1)$	$(S2)$		\cup
	$D<=$	$(S1)$	$(S2)$		\cup

		D=	(S1)	(S2)	|<	>												
		D<	(S1)	(S2)	|<	>												
		D>	(S1)	(S2)	|<	>												
		D<>	(S1)	(S2)	|<	>												
		D>=	(S1)	(S2)	|<	>												
		D<=	(S1)	(S2)	|<	>												
G%	8-BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7		J		F			
G&	8-BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7		J		F			

%
&

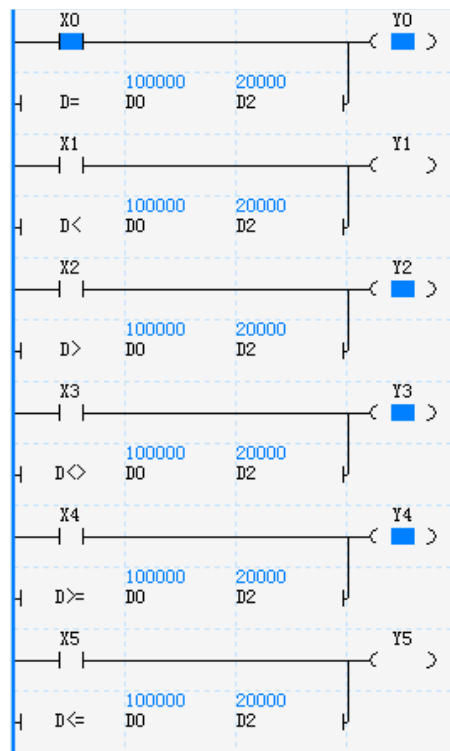


@8 L\$
 @881 8\$8&
 CI H M\$
 @8 L%
 @880 8\$8&
 CI H M%
 @8 L &
 @8802 8\$8&
 CI H M&
 @8 L'
 @8802 8\$8&
 CI H M'
 @8 L(
 @8821 8\$8&
 CI H M(
 @8 L)
 @8801 8\$8&
 CI H M)

8\$8% 8&8'

G%	8-BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7		J		F
G&	8-BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7		J		F

%
&



```

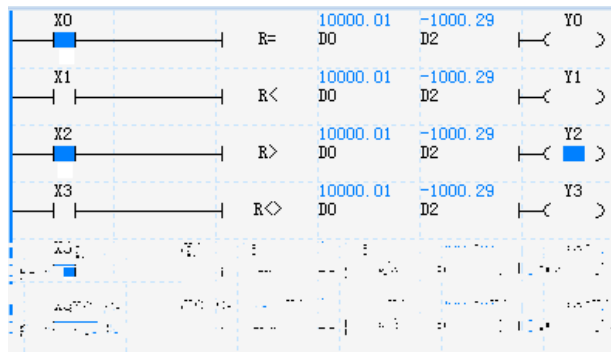
@8 ..... L$
CF81 ..... 8$8&
CI H ..... M$
@8 ..... L%
CF80 ..... 8$8&
CI H ..... M%
@8 ..... L&
CF802 ..... 8$8&
CI H ..... M&
@8 ..... L'
CF821 ..... 8$8&
CI H ..... M'
@8 ..... L(
CF821 ..... 8$8&
CI H ..... M(
@8 ..... L)
CF801 ..... 8$8&
CI H ..... M)
    
```

8\$8% 8&8'

|-----|	R=	(S1)	(S2)	|-----|	)
|-----|	R<	(S1)	(S2)	|-----|	)
|-----|	R>	(S1)	(S2)	|-----|	)
|-----|	R<>	(S1)	(S2)	|-----|	)
|-----|	R>=	(S1)	(S2)	|-----|	)
|-----|	R<=	(S1)	(S2)	|-----|	)

		R=	(S1)	(S2)	T-C)		
		R<	(S1)	(S2)	T-C)		
		R>	(S1)	(S2)	T-C)		
		R<>	(S1)	(S2)	T-C)		
		R>=	(S1)	(S2)	T-C)		
		R<=	(S1)	(S2)	T-C)		
G%	F95@						8	J F
G&	F95@						8	J F

%
&

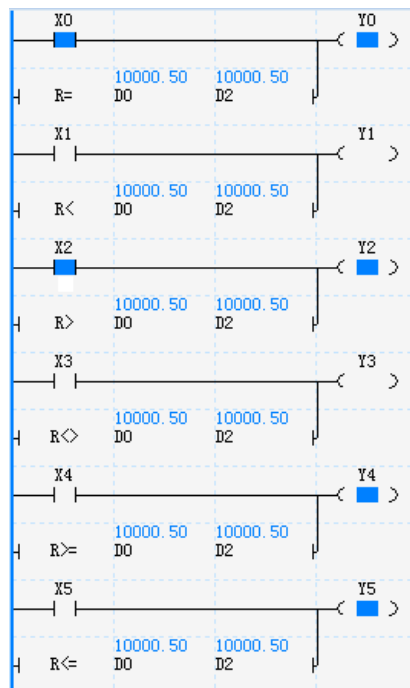


@8 L\$
5B8F1' 8\$8&
CI H' M\$
@8 L%
5B8F0' 8\$8&
CI H' M%
@8 L&
5B8F02' 8\$8&
CI H' M&
@8 M
5B8F02' L(
@8 L(
5B8F21' 8\$8&
CI H' M'
@8 L)
5B8F01' 8\$8&
CI H' M'

8\$8% 8&8'

G%	F 95@		8 J F
G&	F 95@		8 J F

%
&



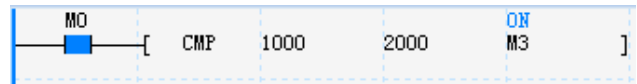
```

@8 ..... L$
CFF1 ..... 8$8&
CI H ..... M$
@8 ..... L%
CFF0 ..... 8$8&
CI H ..... M%
@8 ..... L&
CFF2 ..... 8$8&
CI H ..... M&
@8 ..... L'
CFF02 ..... 8$8&
CI H ..... M'
@8 ..... L(
CFF21 ..... 8$8&
CI H ..... M(
@8 ..... L)
CFF01 ..... 8$8&
CI H ..... M)
    
```

8\$8% 8&8'

| | [ CMP]															
G%	8-BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F
G&	8-BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	N	F
8	6CC@			M	A	G									

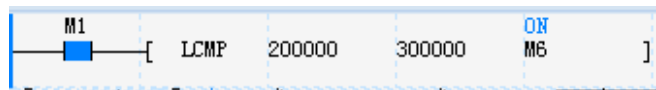
Ž% Ž& CB



[]															
G%	8-BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7		J	N	F
G&	8-BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7		J	N	F
8	6CC@			M	A	G									

Ž% Ž& CB

%
&



| | [ RCP]			
Ö			
G%	F 95@	.	.
G&	F 95@	.	.
8	6CC@	M	A



[BKSUB (S1) (S2) (D) (S3)]														
BKSUB														
G%	=BH'	.	.	.	.	.	.	.	8'	G8'	7'	H'	J'	F'
G&	=BH'	.	.	.	.	.	.	.	8'	G8'	7'	H'	J'	F'
8'	=BH'	.	.	.	.	.	.	.	8'	G8'	7'	H'	J'	F'
G'	=BH'	.	.	.	.	.	.	.	8'	.	.	.	J'	F'

M1	[BKSUB	D10	30	D100	-29	D1000	5]
----	---	-------	-----	----	------	-----	-------	---	---

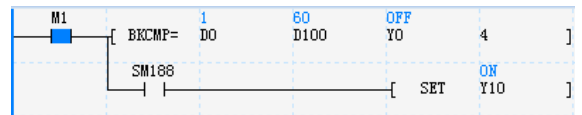
% A %CB 8%\$) 8%\$\$

)

8%\$\$\$) 8%\$\$\$18%18%\$\$

& 8%\$\$\$18%18%\$ 8%\$\$ (18%18%\$ (

|-----|-----| [ BKCMP= (S1) (S2) (D) (S3)]			
|-----|-----| [ BKCMP< (S1) (S2) (D) (S3)]			
|-----|-----| [ BKCMP> (S1) (S2) (D) (S3)]			
|-----|-----| [ BKCMP<= (S1) (S2) (D) (S3)]			
|-----|-----| [ BKCMP>= (S1) (S2) (D) (S3)]			
|-----|-----| [ BKCMP= (S1) (S2) (D) (S3)]			
|-----|-----| [ BKCMP= (S1) (S2) (D) (S3)]			
BKMP			
G%	-BH'		
G&	-BH'		
8'	6CC@	M	A G @A GA
G'	-BH'		



%

@8' A %'

6? 7A D1' 8%\$' 8%\$\$' M\$' ('

@8' GA % ,'

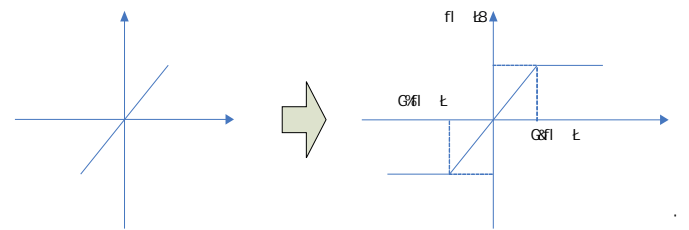
G9HM/\$'

& G% %' zG%
 G% G& g %
 8 G'
 8 G' CB
 GA % ,

A %CB 8%\$ (8%\$\$
 (M\$
 (CB M\$
 CB

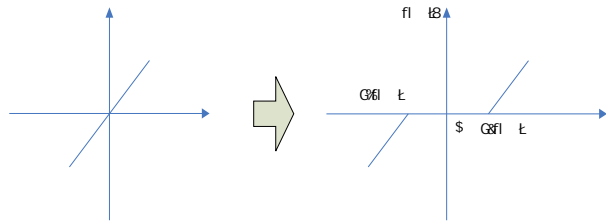
[LIMIT (S1) (S2) (S3) (D)]														
G%	≠BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	F
G&	≠BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	F
G	≠BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	F
8	≠BH			? bM	? bA	? bG	? b@A		8	G8	7	H	J	F

G 0G% 81G% G 2G&81G/
 G%01G' 01G&81G&''



M1	[	LIMIT	10	100	30	30]
		DO	D10	D100	D1000		

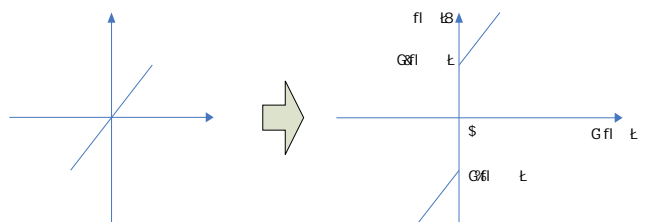
|-----|-----| [ DBAND (S1) (S2) (S3) (D)]														
G%	-BH'		? bL'	? bM'	? bA'	? bG'	? b@A'	? bGA'	8'	G8'	7'	H'	J'	F'
G&	-BH'		? bL'	? bM'	? bA'	? bG'	? b@A'	? bGA'	8'	G8'	7'	H'	J'	F'
G'	-BH'		? bL'	? bM'	? bA'	? bG'	? b@A'	? bGA'	8'	G8'	7'	H'	J'	F'
8'	-BH'			? bM'	? bA'	? bG'	? b@A'		8'	G8'	7'	H'	J'	F'



M1				
	[DBAND	-100	100	30
	D0	D10	D100	D1000

G OG% 81G IG%
 G 2G&81G IG&/ G%01G 01G&81G\$"

|-----|-----| [ ZONE (S1) (S2) (S3) (D)]														
G%	-BH'		? bL'	? bM'	? bA'	? bG'	? b@A'	? bGA'	8'	G8'	7'	H'	J'	F'
G&	-BH'		? bL'	? bM'	? bA'	? bG'	? b@A'	? bGA'	8'	G8'	7'	H'	J'	F'
G'	-BH'		? bL'	? bM'	? bA'	? bG'	? b@A'	? bGA'	8'	G8'	7'	H'	J'	F'
8'	-BH'			? bM'	? bA'	? bG'	? b@A'		8'	G8'	7'	H'	J'	F'



M1	[	ZONE	-100	100	30	130]
		D0	D10	D100	D1000		

[SCL (S1) (S2) (D)]														
G%	=BH'		? bL	? bM	? bA	? bG	? b@A	? bGA	8'	G8'	7'	H'	J'	F'
G&	=BH'								8'				J'	F'
8'	=BH'			? bM	? bA	? bG	? b@A		8'	G8'	7'	H'	J'	F'

M1	[	SCL	25	5	40]
		D10	D100	D1000		

% G%

8

& G&

%

A %CB 8%

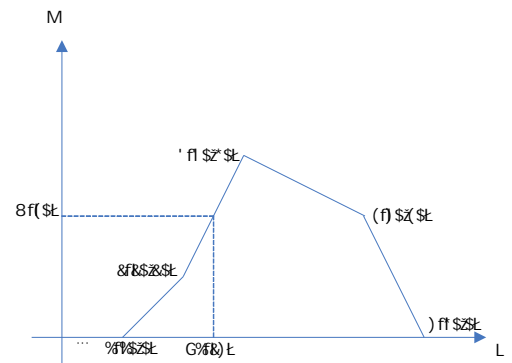
8%\$\$\$

%	L	G&Z%
	M	G&Z&
&	L	G&Z'
	M	G&Z(
A	A	A
bfl t'	L	G&Z &b'l%
	m	G&Z &b'

%	L	8%\$\$	%\$
	M	8%\$\$	\$
&	L	8%\$	&\$
	M	8%\$	&\$
...	L	8%\$)	' \$
	m	8%\$*	*\$
(	L	8%\$+)\$
	m	8%\$	(\$
)	L	8%\$-	*\$
	m	8%\$	\$

% L

& G%

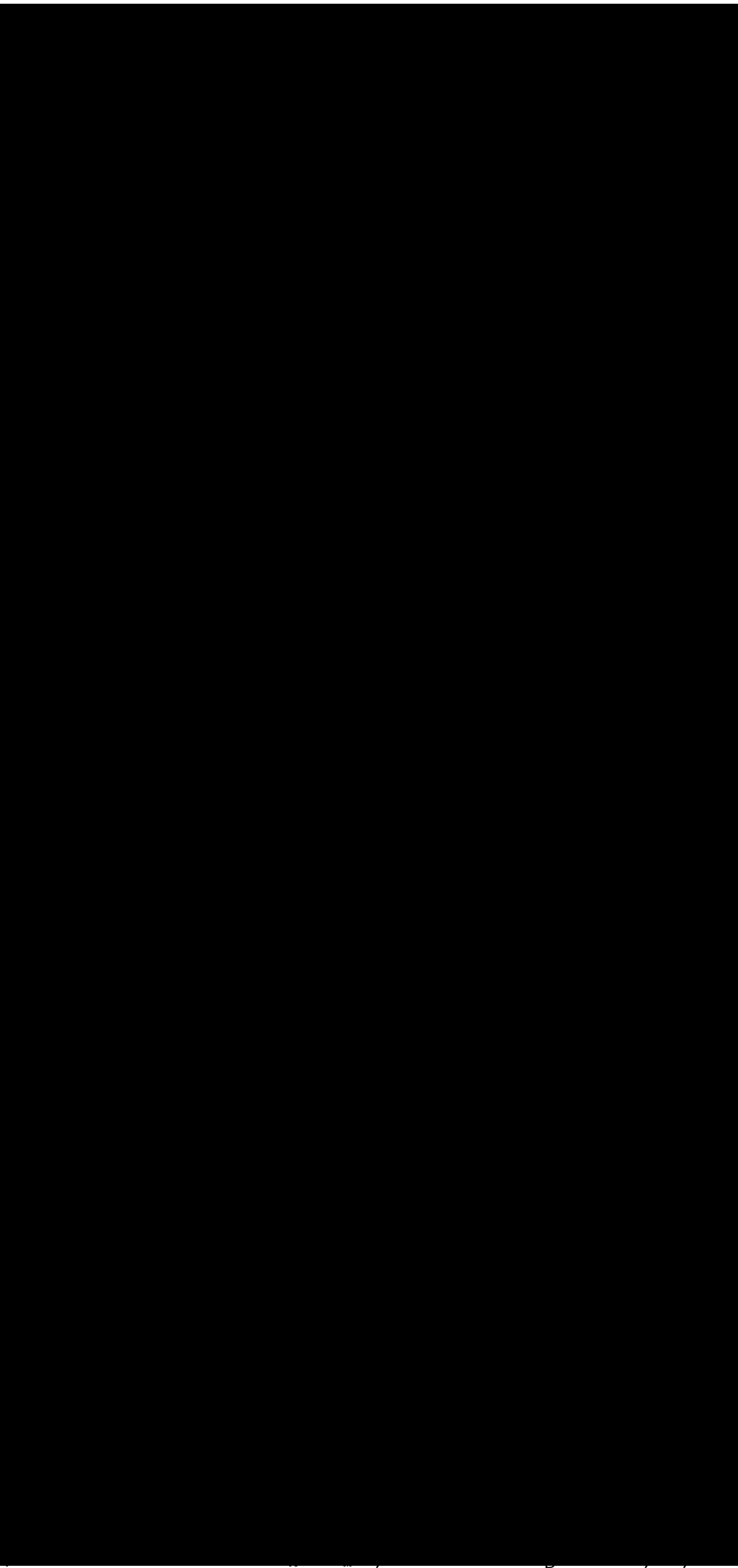


|-----|-----|		[ SER (S1) (S2) (D) (S3)]													
G%	-BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	F	
G&	-BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	F	
8	-BH			? bM	? bA	? bG	? b@A		8	G8	7	H	J	F	
G	-BH								8				J	F	

% G% G ž G&
ž

%

&)*



	G8	7	H	J	F	
	G8	7	H	J	F	
	G8	7	H	J	F	

| | | [ STRLEN (S) (D)]		

STRAIGHT														
G%	=BH'		? bL'	? bM'	? bA'	? bG'	? b@A'	? bGA'	8'	G8'	7'	H'	J'	F'
8'	=BH'			? bM'	? bA'	? bG'	? b@A'		8'	G8'	7'	H'	J'	F'
G&	=BH'								8'				J'	F'

% G% \$\$\$<

& G& \$
' G& G%

% G% \$\$\$<
G& 8
& G& 8
\$\$\$<

M1	12849	13363	
[STRAIGHT D10	D100	3]

A %CB 8%
8%\$\$

6%!!!V, V+!!!V\$		6%!!!V, V+!!!V\$	
8% \$' &	\$' %	8%\$ \$')	\$' (
8% \$' (\$' ''	8%\$ \$' \$	\$' *
8% \$' *	\$')		
8% \$' \$	\$' \$		



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(
\$\$\$<

----- ----- [STRLEFT (S1) (D) (S2)]															
G%	-BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H	J	F	
8	-BH			? bM	? bA	? bG	? b@A		8	G8	7	H	J	F	
G&	-BH								8				J	F	

%

----- ----- [STRMIDR (S1) (D) (S2)]															
G%	-BH'		? bL'	? bM'	? bA'	? bG'	? b@A'	? bGA'	8'	G8'	7'	H'	J'	F'	
8'	-BH'			? bM'	? bA'	? bG'	? b@A'		8'	G8'	7'	H'	J'	F'	

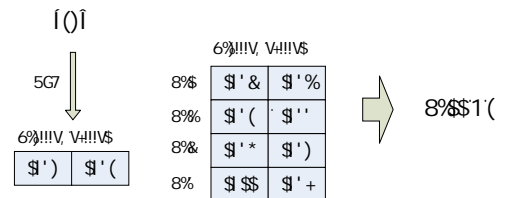
| | [ STRINSTR (S1) (S2) (D) (S3)]															
G%	=BH'									8'	G8'	7'	H'	J'	F'
G&	=BH'									8'	G8'	7'	H'	J'	F'
8'	=BH'									8'	G8'	7'	H'	J'	F'
G'	=BH'									8'				J'	F'

& G' G&
 ' G% ' & z
 (G% \$\$< G&
 \$\$< G&
 \$\$<

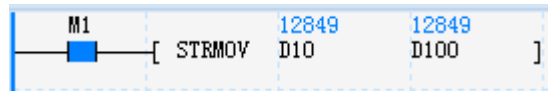
% G& G'
 G%
 & 8 8 \$
 ' G \$
 (\$\$<
 % G% G&
 \$\$<

M1	[STRINSTR "45"	12849	4
		D10	D100
			2

A %CB 8%\$ &
 () 8%\$\$



[STRMOV (S) (D)]														
G	-BH		?bL	?bM	?bA	?bG	?b@A	?bGA	8	G8	7	H	J	F
8	-BH			?bM	?bA	?bG	?b@A		8	G8	7	H	J	F



% G \$\$<

8 / A %CB 8%\$ 8%\$\$

&

\$\$<

6%!!!V, V!!!V\$

8%\$	\$' &	\$' %
8%\$	\$' (\$' '
8%&	\$' *	\$')
8%	\$ \$ \$	\$ \$ \$



6%!!!V, V!!!V\$

8%\$	\$' &	\$' %
8%\$	\$' (\$' '
8%&	\$' *	\$')
8%	\$ \$ \$	\$ \$ \$

% G \$\$<

& G 8 \$\$<

8

\$\$<

G% ' & z

& \$'



|---|---| [ DRVI (S1) (S2) (D1) (D2)]														
G%	8-BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7		J	F
G&	8-BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7		J	F
8%	6CC@			M										
8&	6CC@			M	A	G								

$$F_{a|bS_{acc}} \sqrt{\frac{F_{au}}{T}}$$

' & -----
 <n
 F_{au} G8,) G8,*
 T G8,+
 $F_{a|bS_{acc}}$

' & A 7%\$\$ A 7&\$\$ % \$\$\$\$\$ <n A 7& \$
 % \$\$\$\$\$ <n

A 7%\$\$ A 7&\$\$
 M\$ M% A 7& \$z M\$ M% M&
 M M(M) M* M+

- 8& CB
- 8& C::

%

- M\$ G8, \$ G8, % ' &
- M% G8, & G8, ' ' &

&

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*

C::
 GA, \$GA, % CB
 +'' GA ((\$ GA ((% GA ((' M\$M% M&M
 M*#M+ 56 CB 56 C::
 C::

A 7&\$\$ A 7& \$ G8 A 7%\$\$ z

--- --- DRVA (S1) (S2) (D1) (D2)]															
G%	8-BH'		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7		J		F
G&	8-BH'		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7		J		F
8%	6CC@			M											
8&	6CC@			M	A	G									

' & -----
 <n
 ' & A 7%\$\$ A 7&\$\$ %\$ %\$\$\$\$\$ <n A 7& \$
 %\$ &\$\$\$\$\$ <n
 A 7%\$\$ A 7&\$\$
 M\$ M% A 7& \$Z M\$ M% M&
 M M(M) M* M+
 D@7

$$F_{a|bSacc} \sqrt{\frac{F_{au}}{T}} \cdot$$

G8,) G8, *
 G8, +
 $F_{a|bSacc}$

CB C: :
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 • M\$ G8, \$ G8, % ' &
 • M% G8, & G8, ' ' &
 &
 ()
) C: :
 GA
 * C: :
 GA, \$ GA, % CB *
 +'' GA ((\$ GA ((% GA ((' M\$M% M&M
 M*#M+ 56 CB 56 C: :
 C: :
 +

A 7&\$\$ A 7& \$ G8 A 7%\$\$ ž

— — [ABS (S) (D1) (D2)]															
G	6CC@	L	M	A	G										
8%	6CC@		M	A	G										
8&	8-BH		?bM	?bA	?bG					8	G8	7			F

) 56G CB 56G

G& %G & L

* 56G

' & *

8% 8% % 8% & M + 56GV] \$ V] % &

, \$

' &

8& 8& % &

56G

G8, \$ G8, & ' &

G8, \$ G8, &

% D@7

D@7

& 56G 8&

G8, \$

G8, &

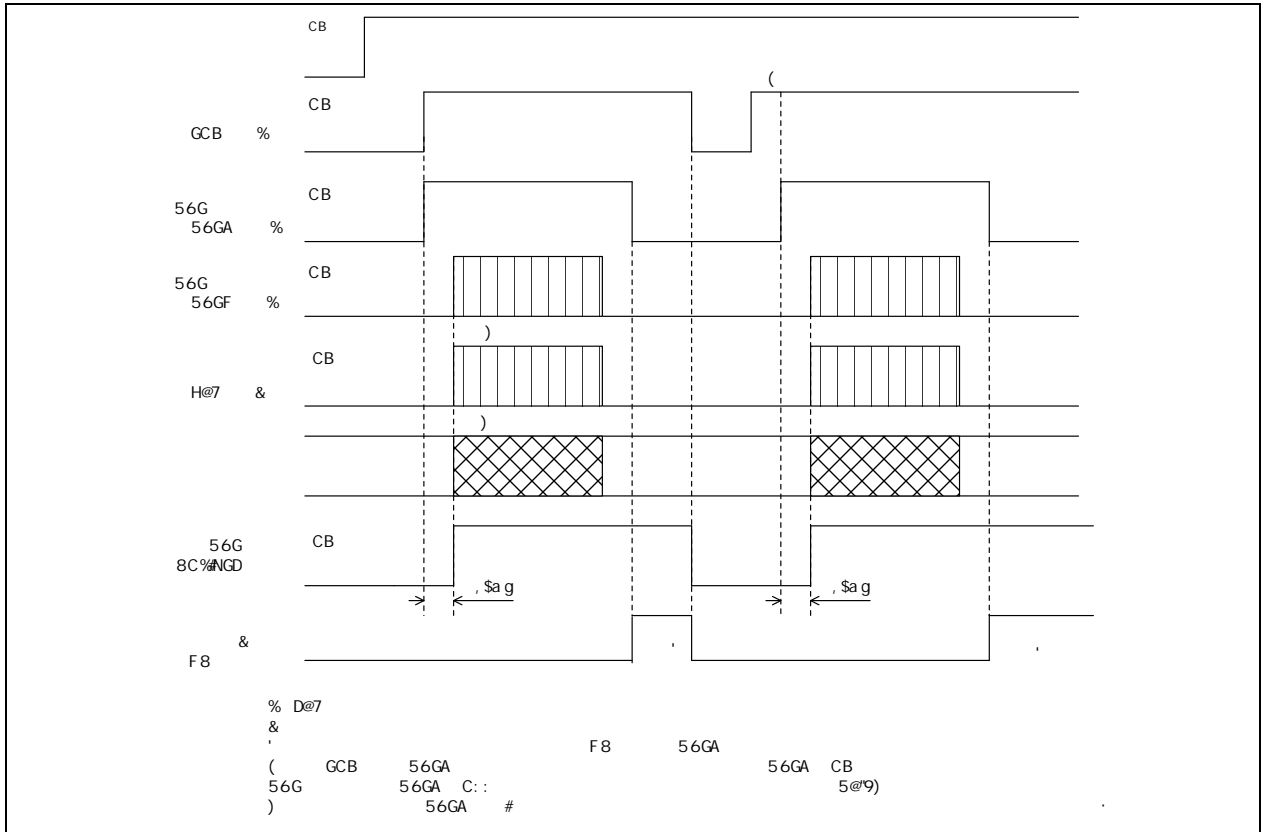
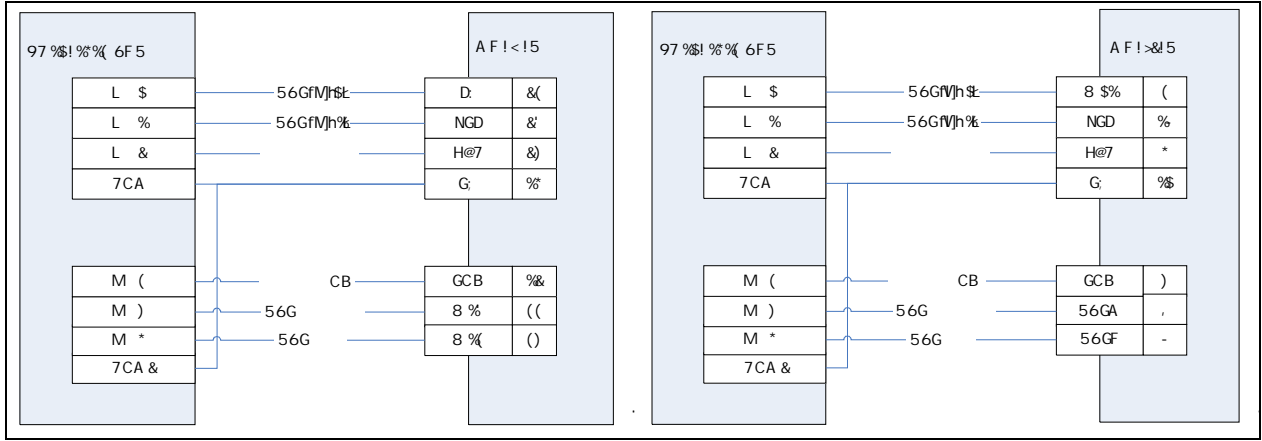
' 56G 56G

56G

CB C::

(GA, & GA, ' M\$ M%

)'' A 7&\$ A 7& \$ G8 A 7%\$ ž



56G A F >& A F >&G 56G

' &

56G 56G

G%	6CC@	.	L	M	A	G	.	.	.	.	.	.	.	.	.
G&	6CC@	.	L	.	.	.	.	.	.	.	.	.	.	.	.
8%	6CC@	.	.	M	.	.	.	.	.	.	.	.	.	.	.
8&	6CC@	.	.	M	A	G	.	.	.	.	.	.	.	.	.

8C;

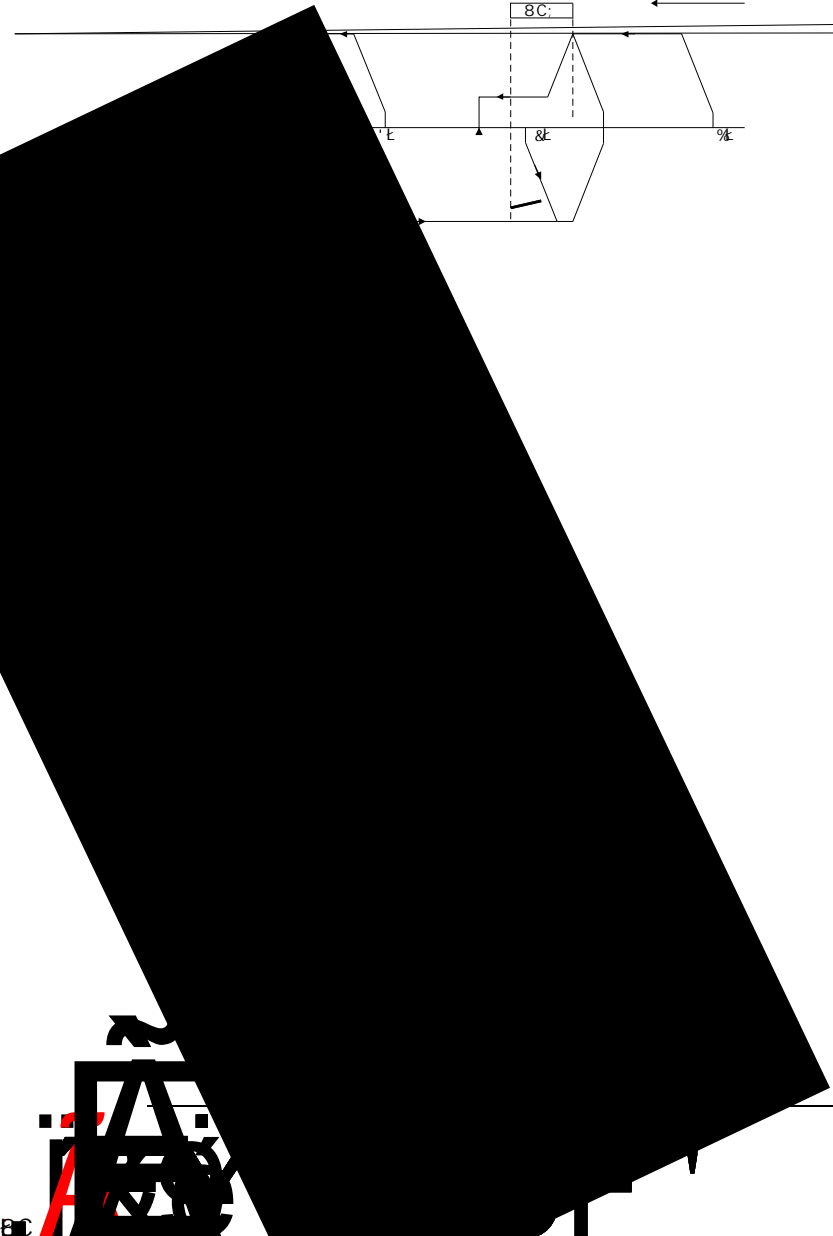
L\$ L+

A 7%\$ A 7&\$

M\$ M% A 7& \$

M\$ M%

M& M (M) M* M+



SMD	[	DMOV	100000	100000	SD202]
	[	MOV	100	100	SD204]
	[	MOV	5000	5000	SD205]
	[	MOV	2000	2000	SD207]
	[	MOV	8000	8000	SD208]

8C;

M8	[	DSZR	OFF	OFF	OFF	OFF]
			M100	X0	Y0	Y4	

[STOPDV]															
G%	8-BH'		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7		J		
G&	8-BH'		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7		J		
G	8-BH'		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7		J		
8	6CC@			M											

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M\$

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M% M& M M(M) M* M+

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M\$ M&

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@B 7K

77K

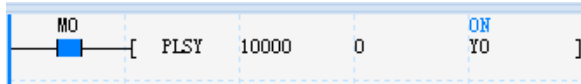
(

D@GM

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A \$



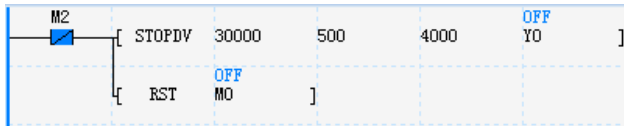
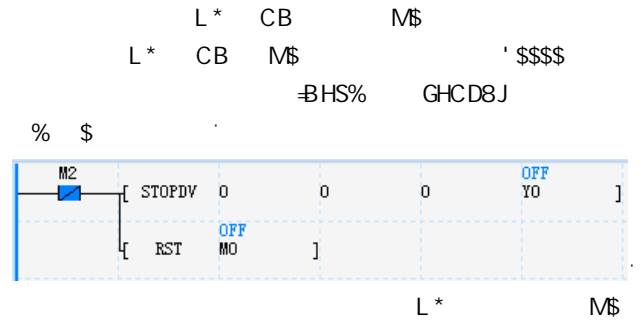
INT_1

程序名称: INT_1 作者: _____

中断事件: X6输入上升沿中断(中断号=6) ...

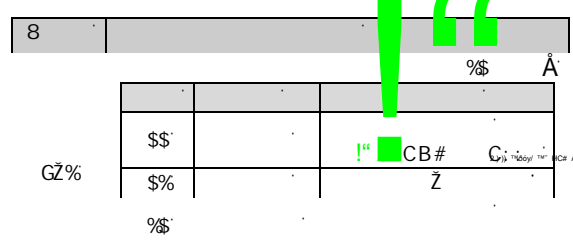
程序说明: _____

确定 取消



L* CB M\$ ' \$\$\$\$
 -BHS% GHCD8J
 % \$
 L* M\$
 GHCD8J
 M\$
 M\$

| | | [ LUN]			
G	8-BH		8
8%	6CC@	M	
8&	6CC@	M	
8'	6CC@	M	
8(6CC@	M	



%

&

8	
G	

%

M\$ M& M% M M\$ M&

8% 8' M(AM) AM AM+ &

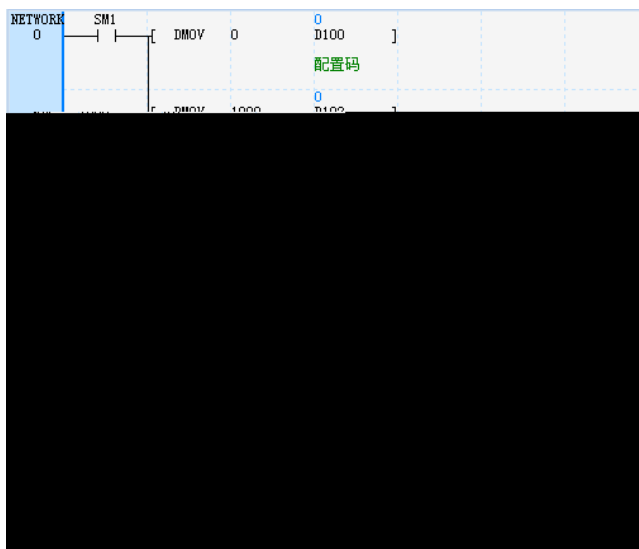
& M\$ M& Z
Z %\$_ M(M)

M* M+ Z

&\$ _

%* Z+++Z&?)

(



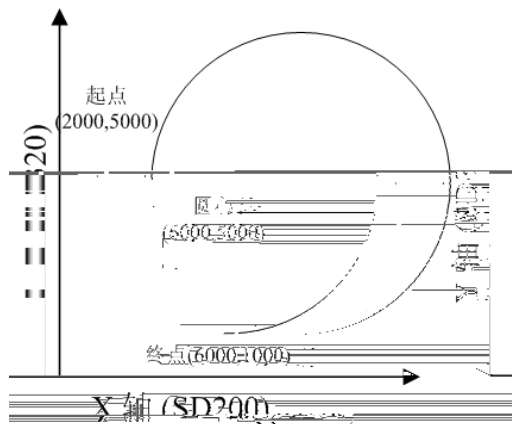
[OW]			
G	8-BH		8
8%	6CC@	M	
8&	6CC@	M	
8'	6CC@	M	
8(6CC@	M	

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GZ'			
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GZ)			
GZ*			
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GZ,	L		
GZ-	L		
GZ%\$	M		
GZ%%	M		
GZ%#	L	#	L
GZ%~	L	#	L ~ }
GZ%#	M	#	#yE=-&é



NETWORK 0	SM1	[DMOV	0	0	D100]							
						配置码								
		[DMOV	1000	0	D104]							
						配置码								
		[	DMOV	4000	0	D108]							
						X轴移动距离								
		[	DMOV	-4000	0	D110]							
						Y轴移动距离								
		[	DMOV	4000	0	D112]							
						圆心X轴相对位置								
		[	DMOV	0	0	D114]							
						圆心Y轴相对位置								
NETWORK 1	MO	[	CW	0	OFF	OFF	OFF	OFF						
				D100	Y0	Y1	Y2	Y3						
				配置码	X轴脉冲	X轴方向	Y轴脉冲	Y轴方向						

[CW]														
G	8-BH									8				
8%	6CC@			M										
8&	6CC@			M										
8'	6CC@			M										
8(6CC@			M										

8			
GZ%	%S		
	\$S		CB# C::
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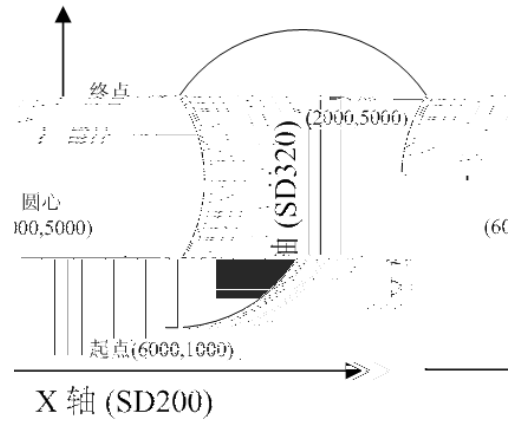
L M

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G8

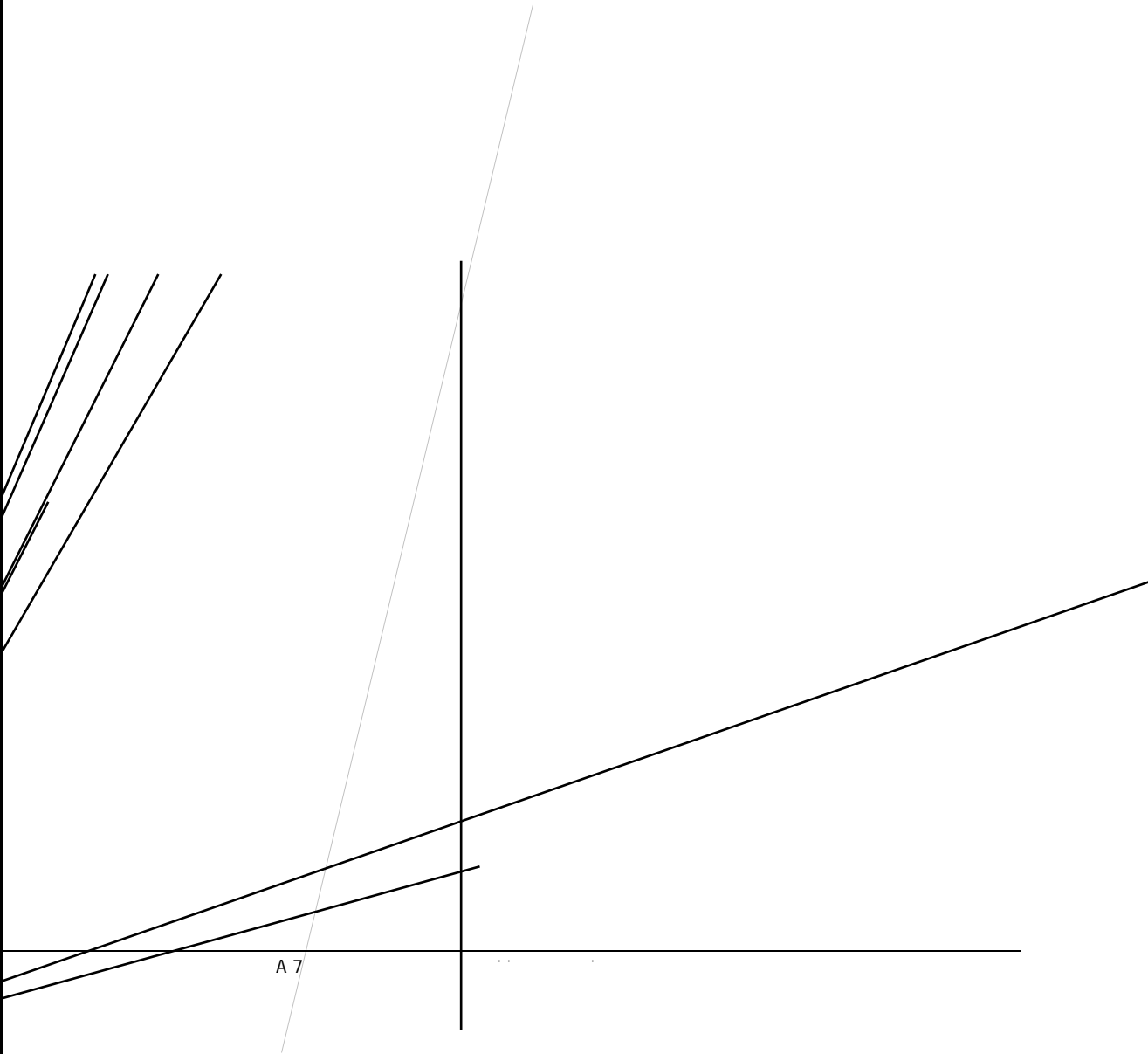
*\$\$\$ %\$\$\$

M\$ M& M% M M\$ M&
 8% 8' M(M) M+ M+ &
 & M\$ M& Z
 Z M\$ M M(M)
 M+ M+ Z
 &\$_
 (% Z++Z%)
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SM1	[DMOV	0	D100]				
						配置码			
	[DMOV	1000	D104]				
	[DMOV	-4000	D108]				
						X轴移动距离			
	[DMOV	4000	D110]				
						Y轴移动距离			
	[	DMOV	0	D112]				
						圆心X轴相对位置			
	[	DMOV	4000	D114]				
						圆心Y轴相对位置			
M0	[	CCW	0	D100	OFF	OFF	OFF	OFF	OFF
					Y0	Y1	Y2	Y3	
					配置码	X轴脉冲	X轴方向	Y轴脉冲	Y轴方向

[NOVELINK]														
8-BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7		J		
8-BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7		J		
8-BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7		J		
8-BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7		J		
6CC@			M											
6CC@			M							7				



A 7



[DRVC (S1) (D1) (S2) (D2)]														
G%	6CC@										7			
8%	8-BH								8					
G&	6CC@			M										
8&	8-BH								8					

h1 G8&\$) | fZ g&\$ (L f G8&\$& G8&\$ (L
 &" g f#\$\$\$L | fZ G8&\$ (L

M\$ GA, \$
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*" M\$ GA, & CB

C: :

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SM1	[DMOV	100000	100000	D0		
	[DMOV	100000	100000	D2		
	[DMOV	150000	141072	D4		
SMD	[HCNT	0	100000	D0		
M10	[	DRVC	OFF	100000	D0	OFF	OFF
	[		C236		Y0		Y4

[CAMTABLE (S1) (S2) (S3) (S4) (S5)]														
G%	BH								8	G8	7		J	
G&	8-BH								8	G8	7		J	
G	BH								8	G8	7		J	
G(	BH								8	G8	7		J	
G)	BH								8	G8	7		J	

M1														
M3														

[CAMBOX (S1) (D1) (D2) (D3) (D4)]														
G%	=BH			M					8	G8	7		J	
8%	6CC@	L	M								7			
8&	6CC@		M											
8'	6CC@		M	A										
8('	6CC@		L											

75A H56@9

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L \$rL + M\$rM+

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\Wdh

7& *r7' \$+

M\$rM+

M\$rM+

L \$rL +

M1	[↑	[CAMTABLE	R10	D12	D14	D16	D18]
M3	[[CAMBOX	D0	X0	Y2	Y3	X10]

%

HUYS

[MEAN (S1) (D) (S2)]										MC280				
G%	=BH		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H		F
8	=BH			? bM	? bA	? bG	? b@A		8	G8	7			F
G&	=BH								8					F

%
&

M1	[MEAN	32	10	4
	D0	D10		

@8 A %

A 95B 8\$ 8\$ (

A %CB 8\$ (ž

8\$ 8\$1' & 8%1\$ 8&1% 8' 1!%

8\$1%

%

[WTOB (S1) (D) (S2)]										MC280				
										7				
G%	=BH								8	G8	7	H		F
G&	=BH								8	G8	7	H		F
8	=BH								8					F

%
&

%



&(

V% !!!!!!!V V+!!!!!!V\$

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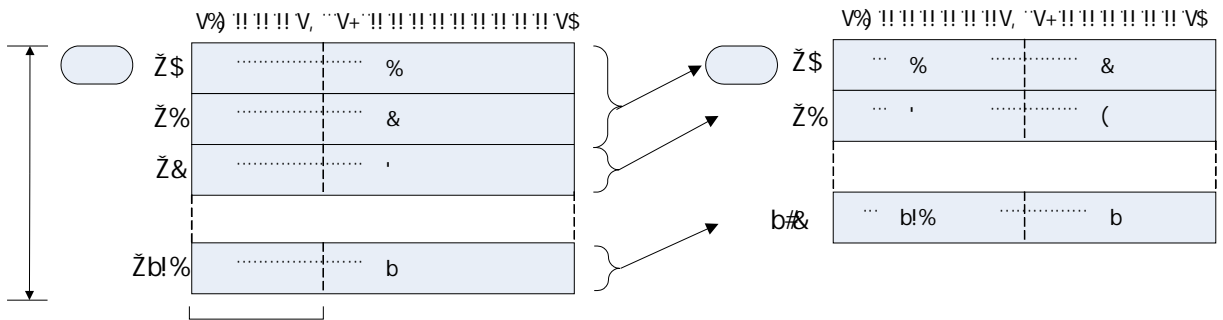


Zb!&
Zb!%

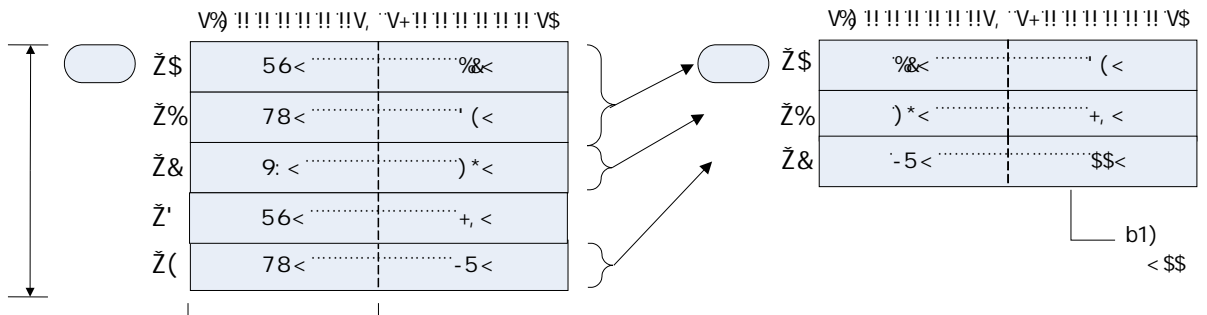
BTOW (S1) (D) (S2)												
G%	-BH							8	G8	7	H	F
G&	-BH							8	G8	7	H	F
8	-BH							8				F

%
&

%



&



(

M1	[BTOW	1	258	8]
		D0	D10			

@8 A %
 6HCK 8\$ 8%
 A %CB 8\$ * 8% 8\$1\$ %8%1\$ \$&Z
 8&1\$ '\$ Z8' 1\$ \$(Z8(1\$ \$) Z8) 1\$ \$* 8%1\$1\$ %&Z8%1\$ '\$ (Z8&1\$) \$*

|—| — [**UNI** (*S1*) (*D*) (*S2*)]

| | | [ DIS (S1) (D) (S2)]														
G%	=BH							8	G8	7	H		F	
G&	=BH							8	G8	7	H		F	
8	=BH							8					F	

|—| |—| [ ANS (<i>S1</i>) (<i>S2</i>) (<i>D</i>)]		
<i>S1</i> <i>S2</i> <i>D</i>		

----- ----- [RND (D)]															
8	K CF8		? bL	? bM	? bA	? bG	? b@A	? bGA	8	G8	7	H		N	F

M1
 |-----|-----| [RND DO]

% \$' &+*+
 8
 GA % \$

@8 L\$
 FB8 8\$
 A %CB

8\$ 8\$1&(\$*

----- ----- [DUTY (S1) (S2) (D)]														

+ '%

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+ '%%'

.....&)

+ '%&

A 7

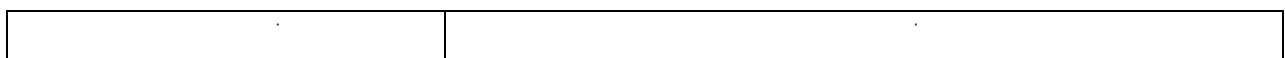
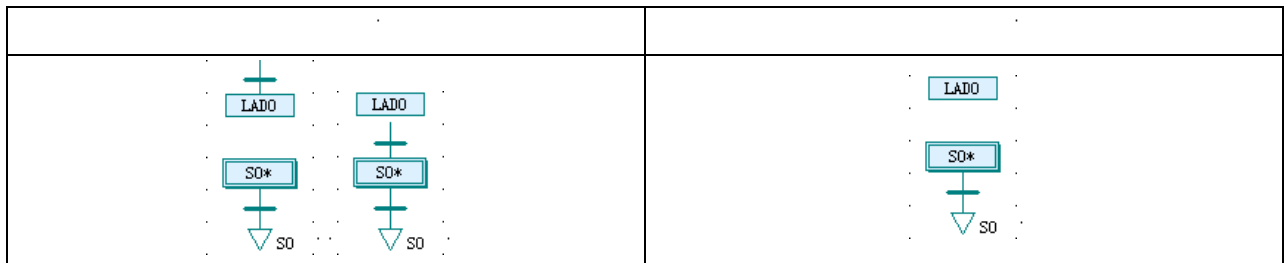
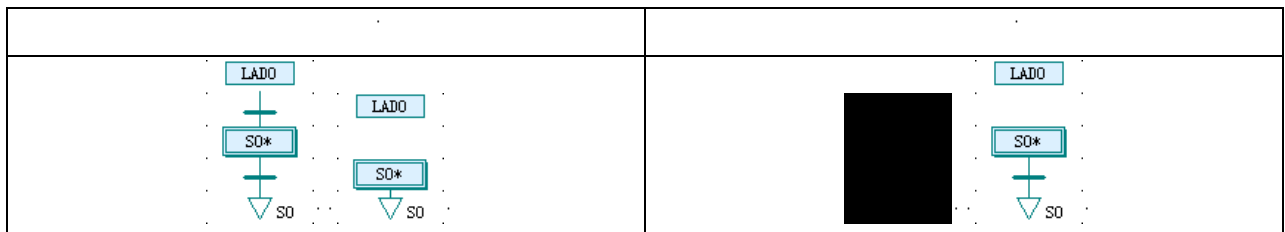
D@7

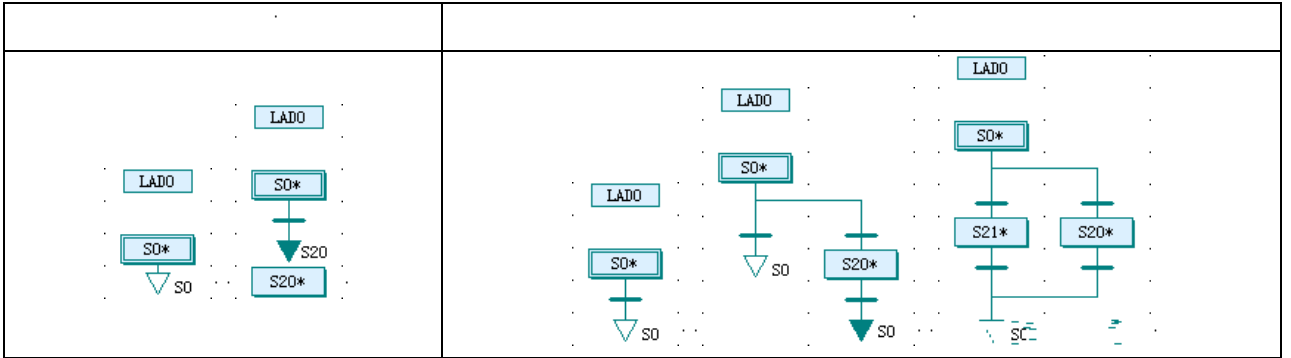
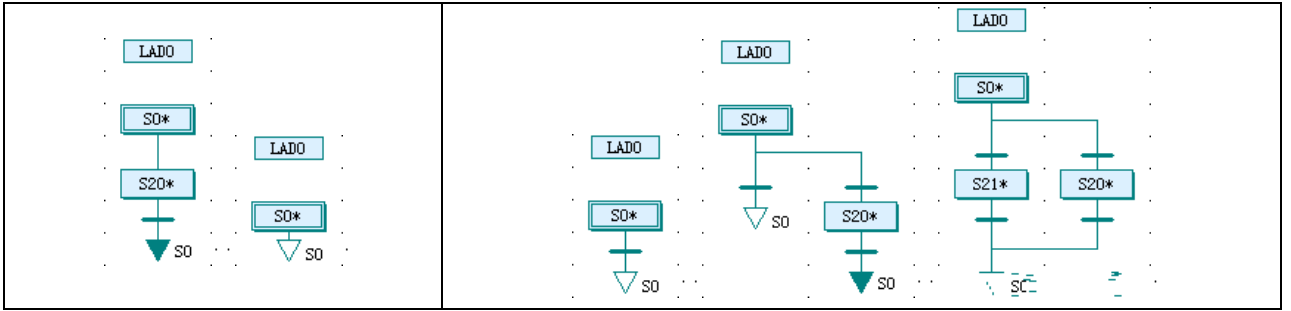
.....&)

+ '%"

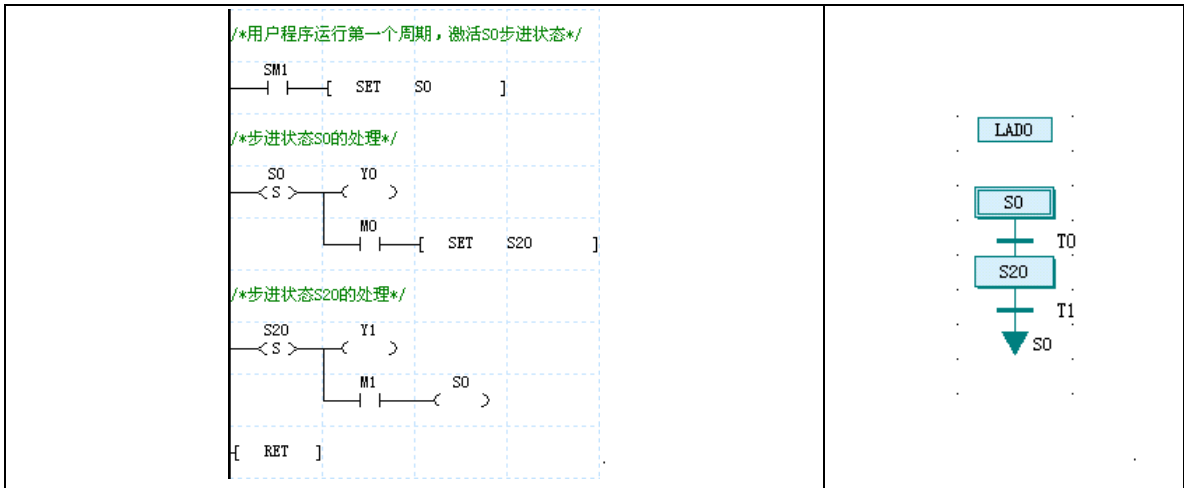
.....

		G
		G CB
		G C::
	LAD1*	





G. 7



%

G CB

&

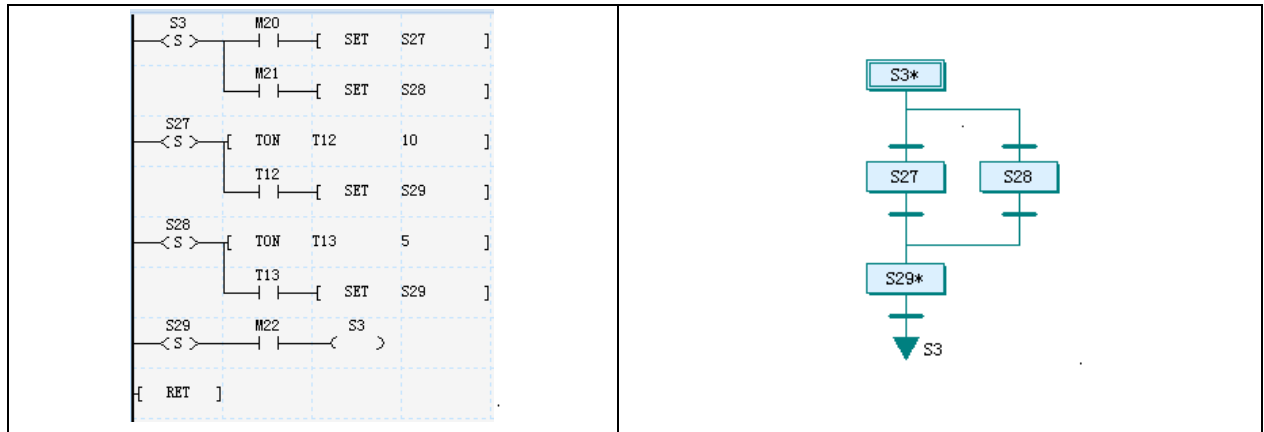
G \$ %

&)

G &\$ --% A 7&\$

&\$ %&' A 7%&\$

("



%"

A &\$ A &%

A &\$ A &%

B\$ G&+ G&
G&+ G&

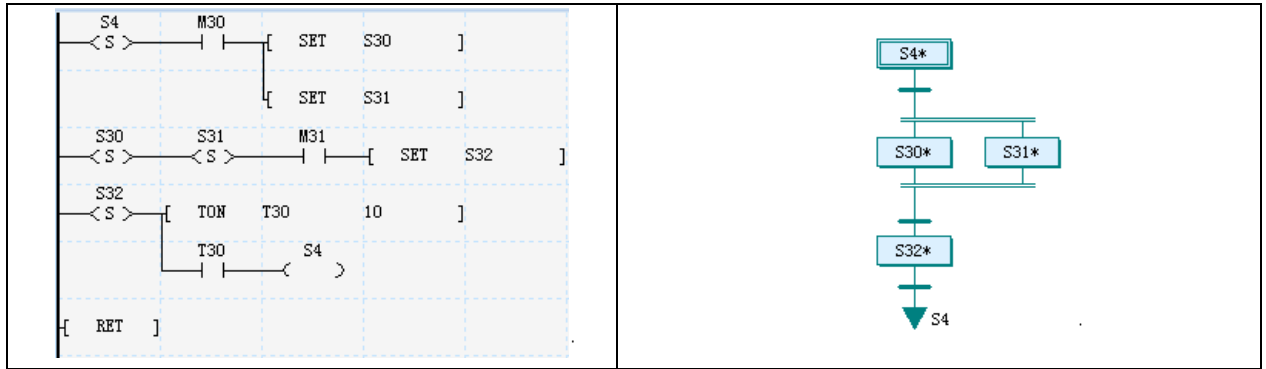
&"

H%&
G&-

B& G&

H%

B% G&+



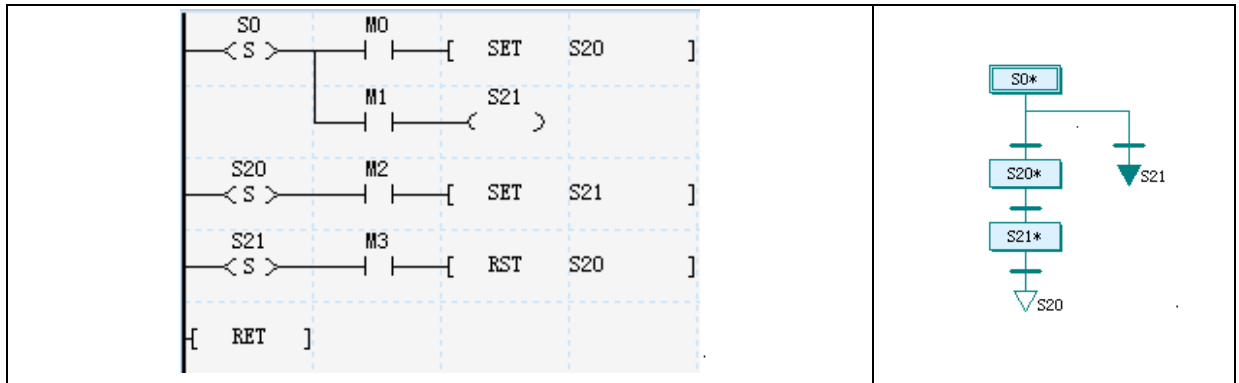
B\$ A '\$ A '\$ G \$ G %

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G \$ G % A ' % G & G \$ G %

B*

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G&% G&\$

B\$

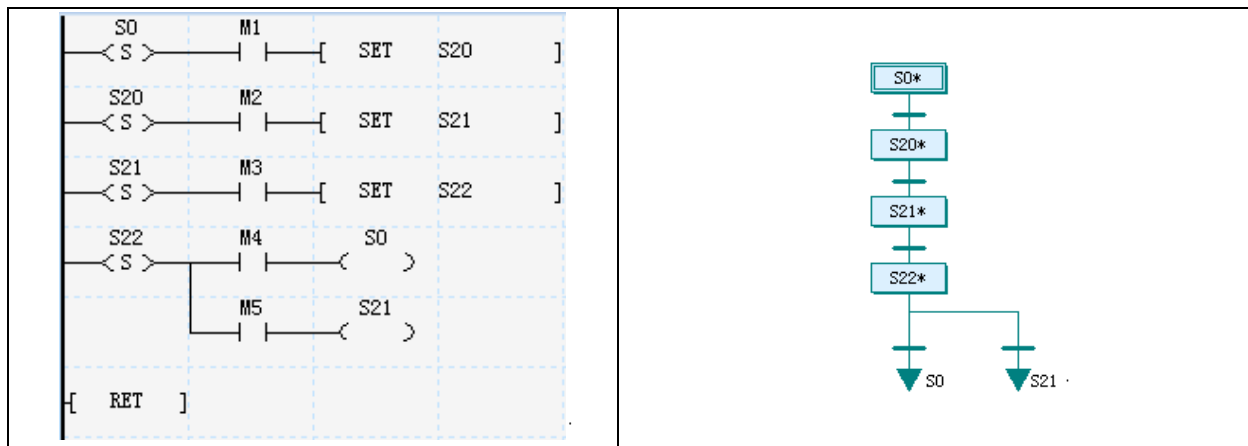
CI H

G9H

G\$ A % CB

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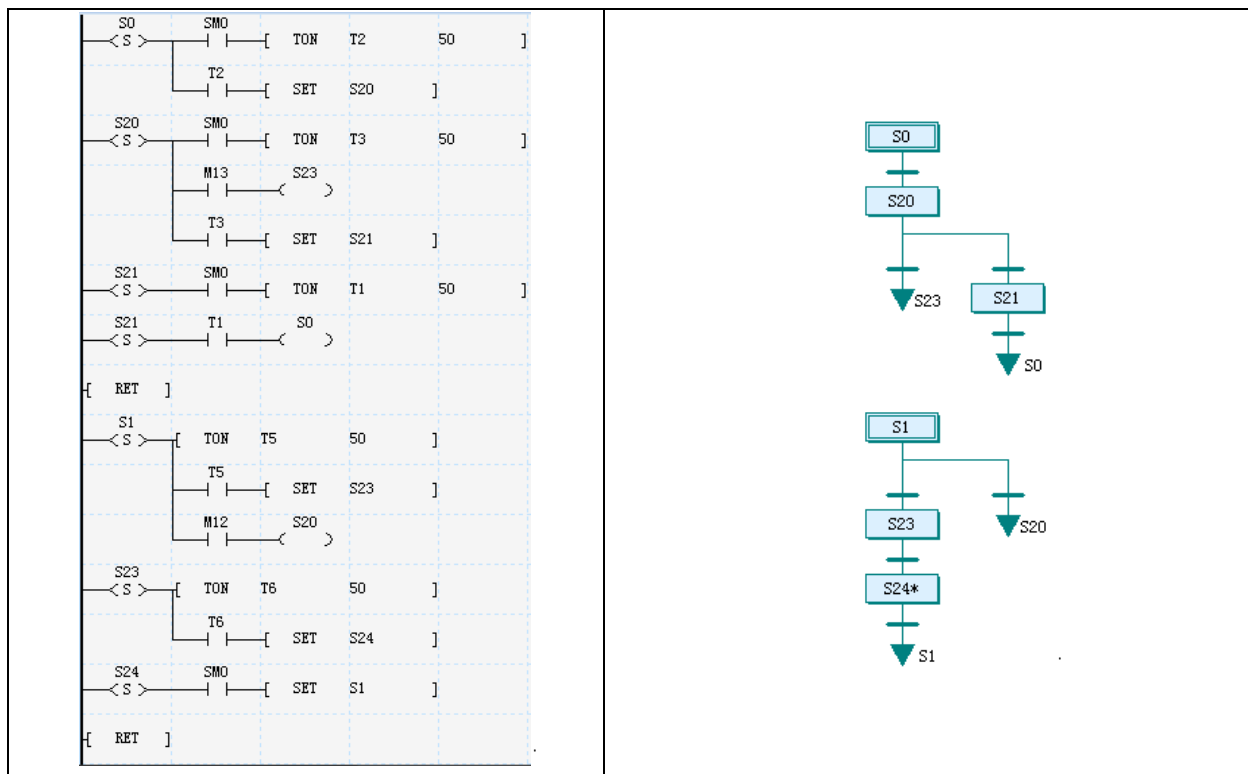
CI H

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A 7 D@7



D@7



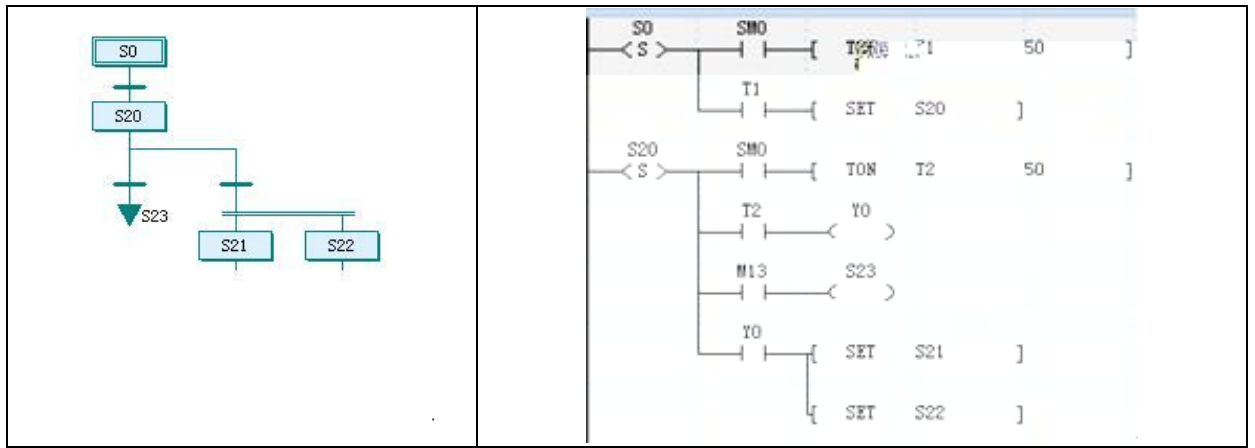
G&\$
G&\$

G&

G%

C:: G\$ G& G&\$ G&% C:: G& G&\$

H& G&% G&& A % C:: G& G& H&



G CB C:: CB#C:: 5.31 STL SFC G



A 7 D@7

G

D@7

G

7.4

G: 7

G: 7

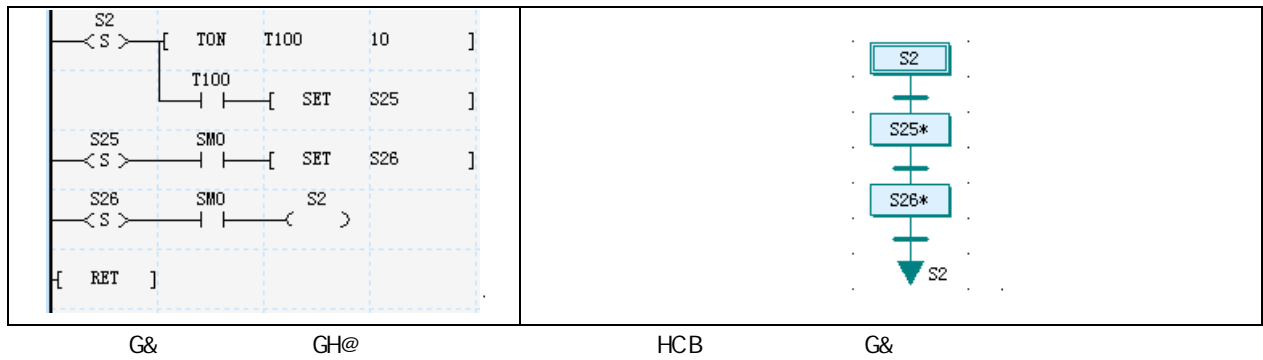
G: 7

G: 7

GH@

G

G: 7



G

GH@ 5.31 STL SFC CB C::

CI H HCB HC: DK A <7BH D@GM D@GF 8<G7G GD8 8<G7= 8<G7F 8<GN 8<GH

8<GD 6CI H

D@7 CB C:: 7.41

G 7

G9H

G: 7

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F 9H

F 9H

G& B' CI H

G&* B' FGH G&*

7.15

7.15

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F 9H

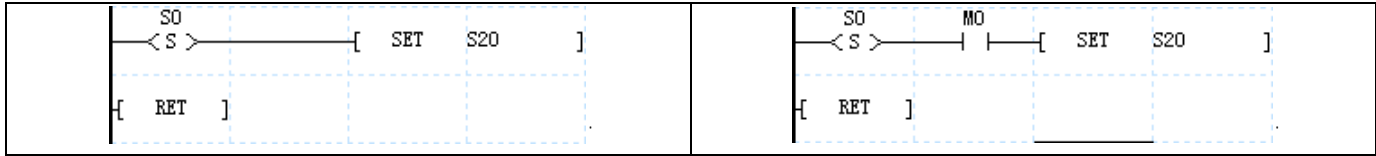
G&\$

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(" CB C: :

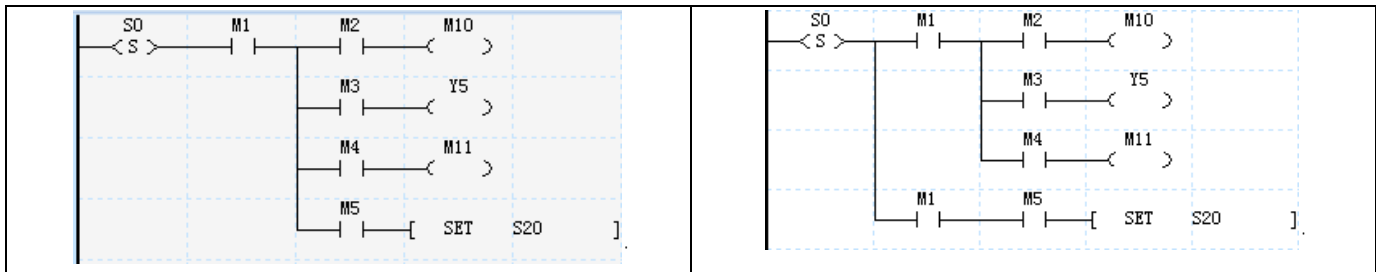
CI H HCB HC: DK A <7BH D@GM D@GF 8<G7G GD8 8<G7=
8<G7F 8<GN 8<GH 8<GD 6CI H

)"

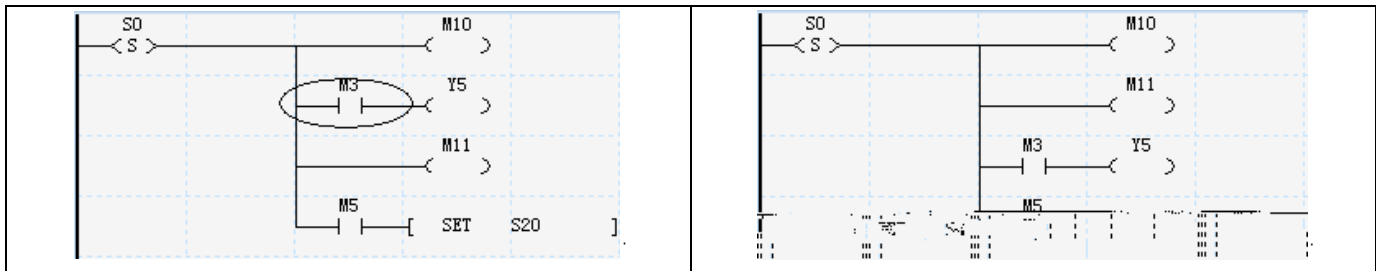


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A %



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GH@ CB C: :

5.31 STL SFC

G&\$

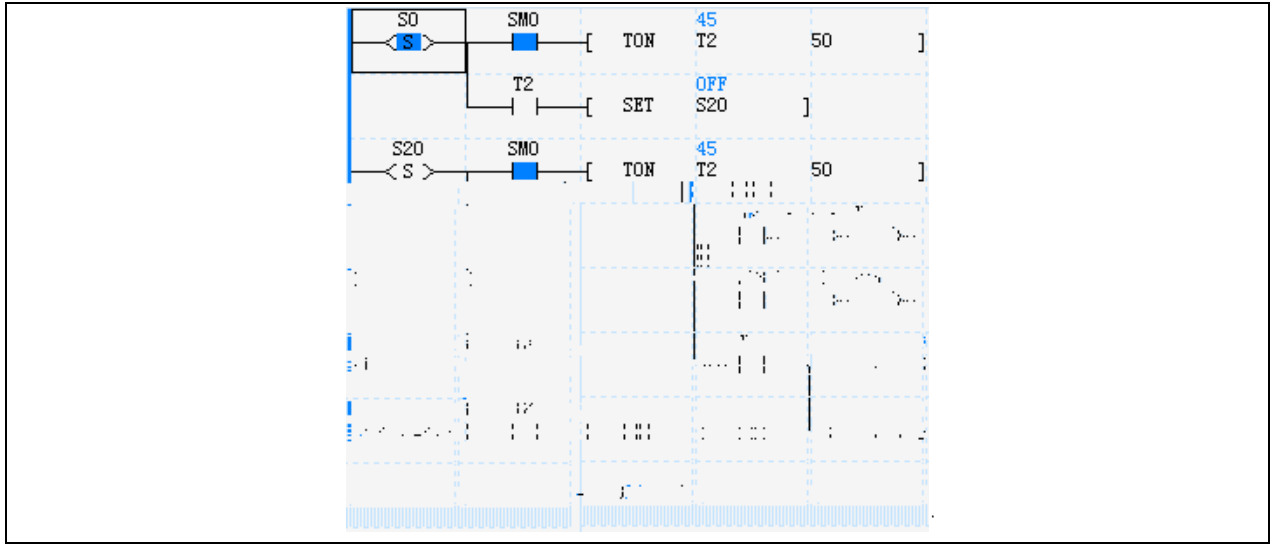
H&

G\$

G&\$

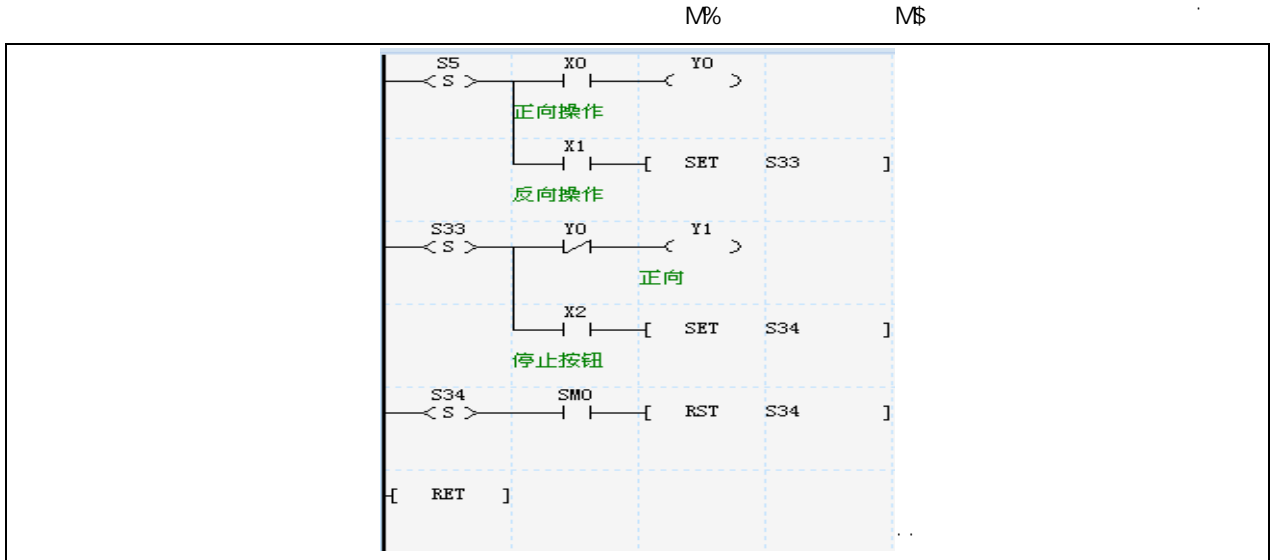
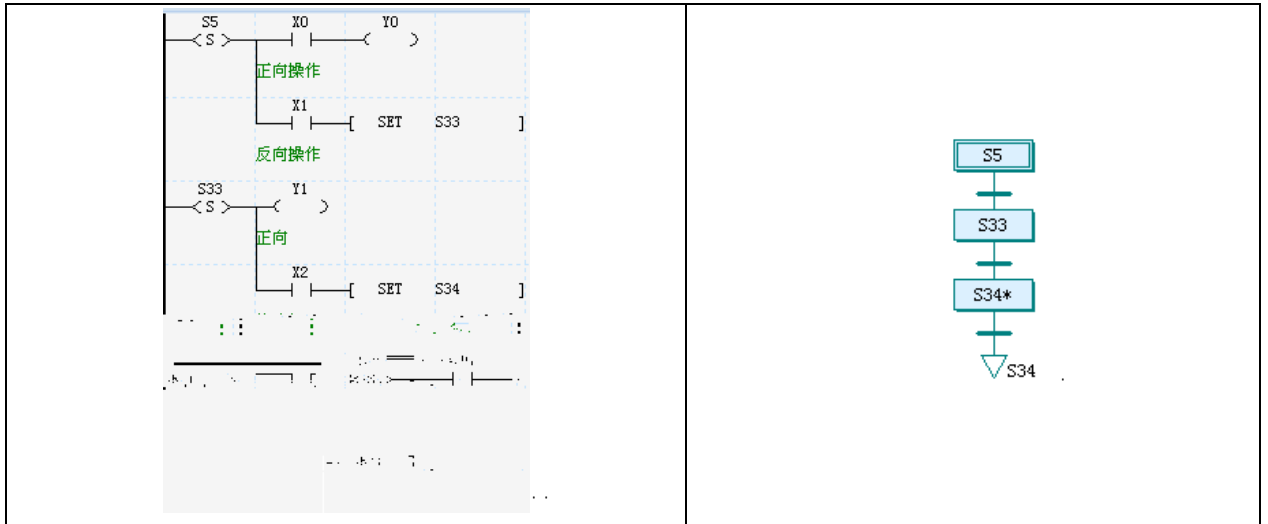
H&

G&% G&&



G 7

L & M\$ M% M\$ M% L\$ L% M\$ M% CB L% G)



%S

CI H

G9H

G9H

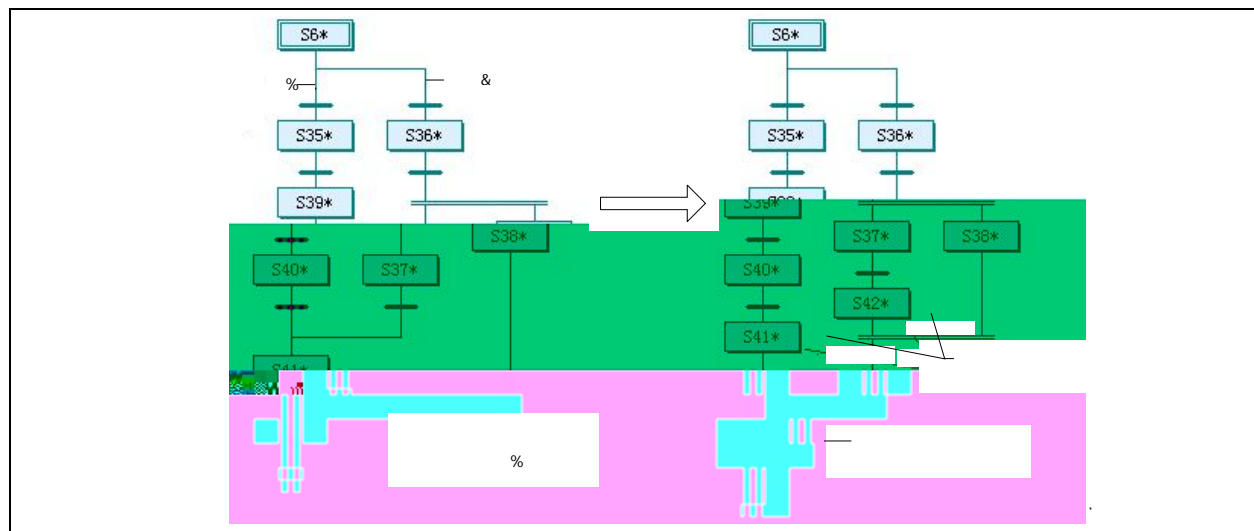
CI H

%%

%

G(%)

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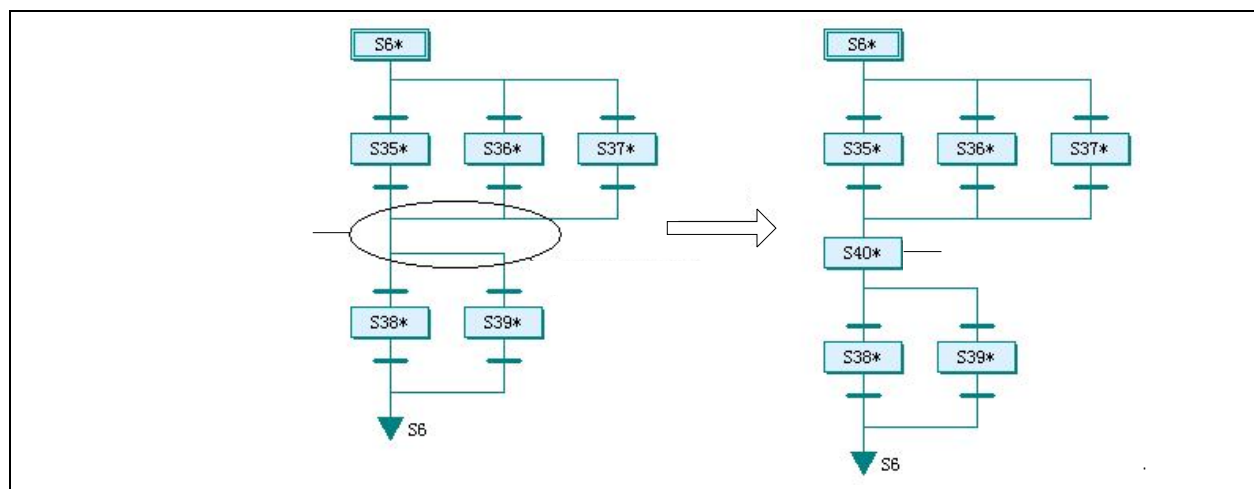
G, G(%) G(%)

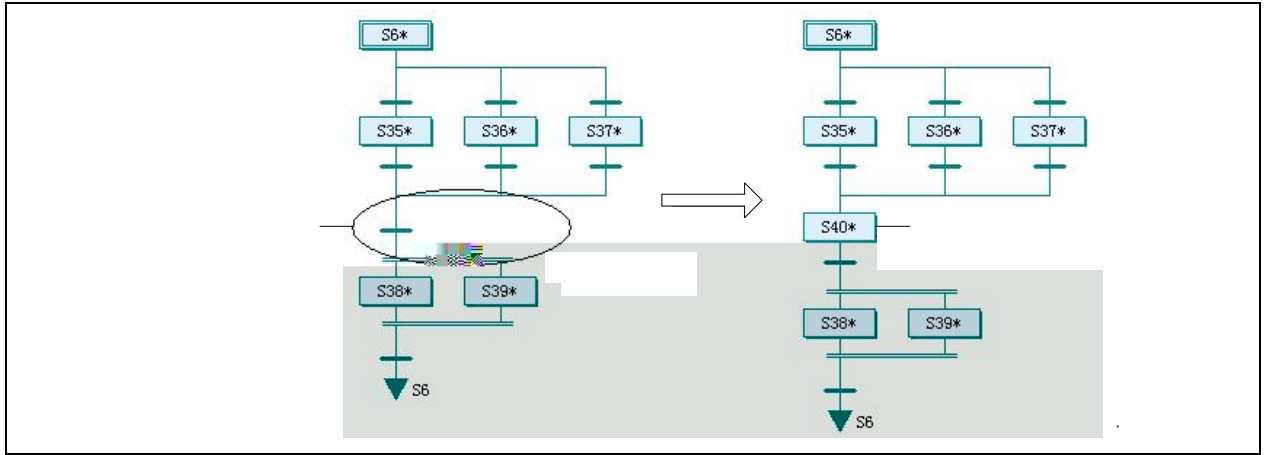
G(&

G(%)

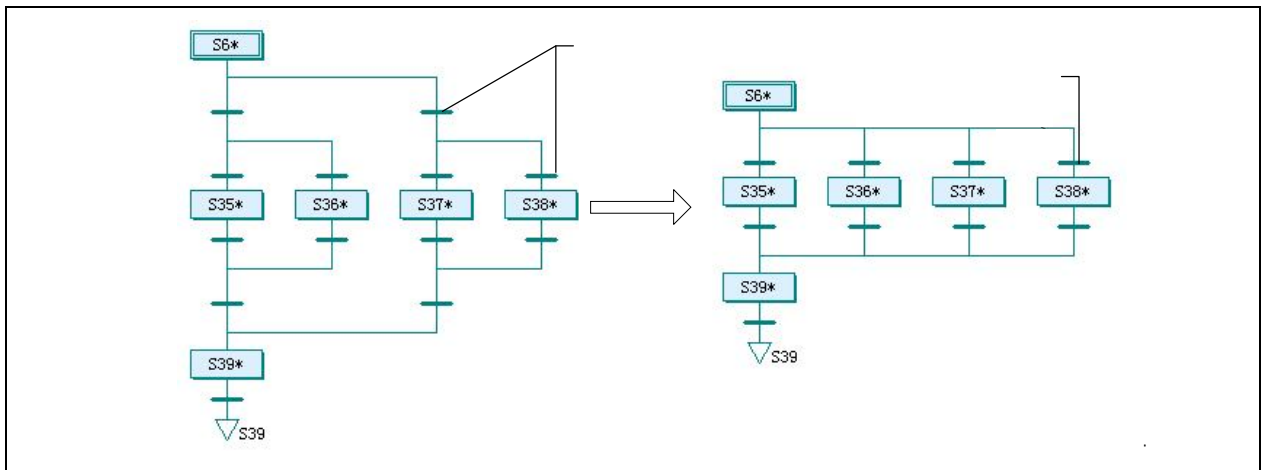
G(%)
G(%)

%

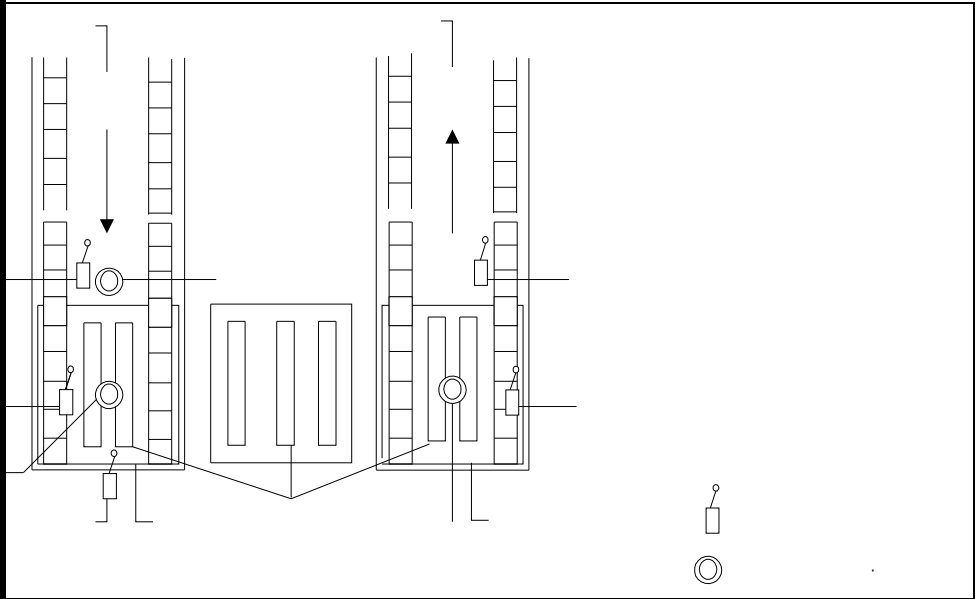


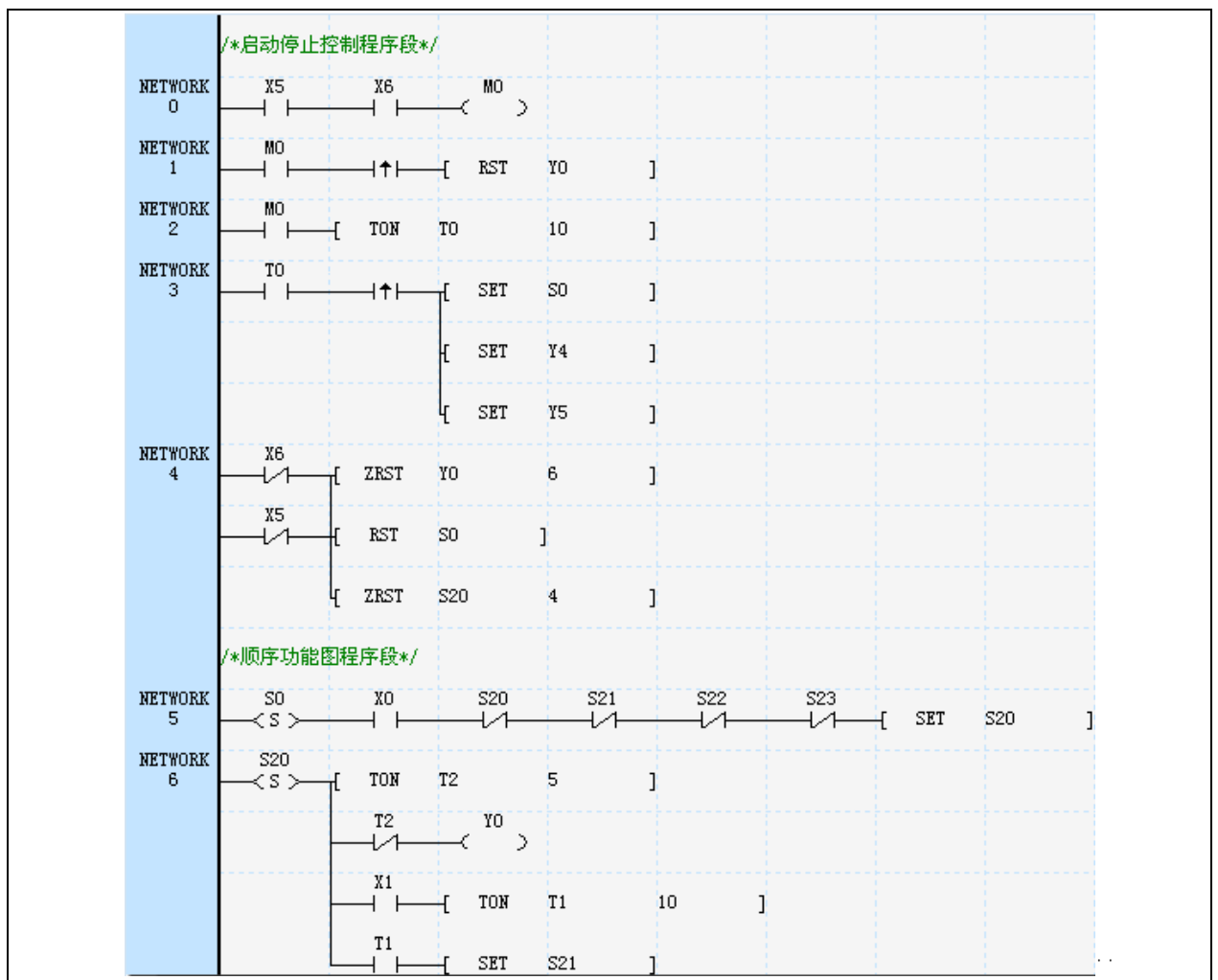
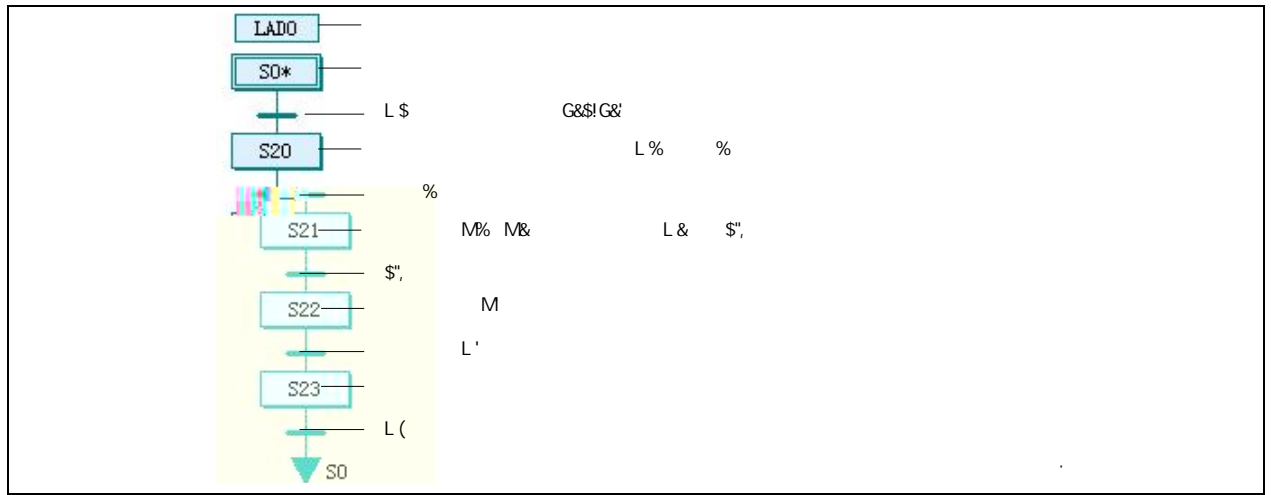


&''



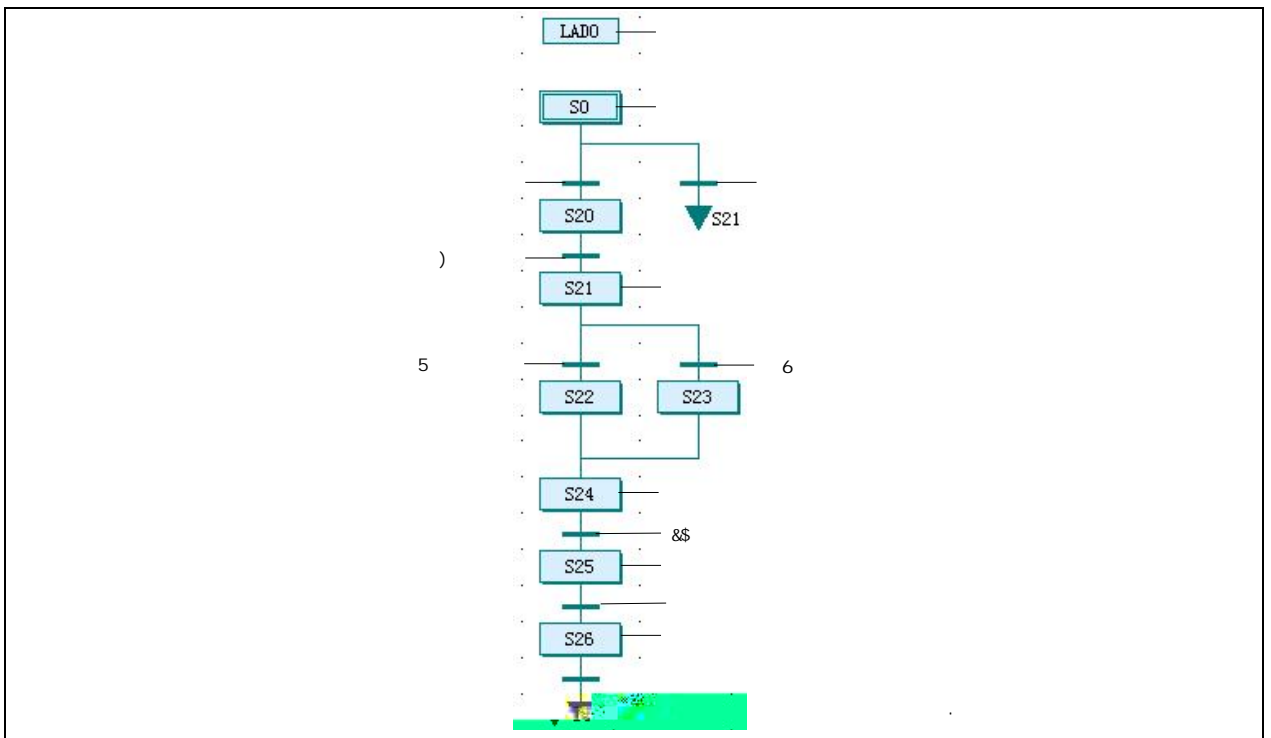
G

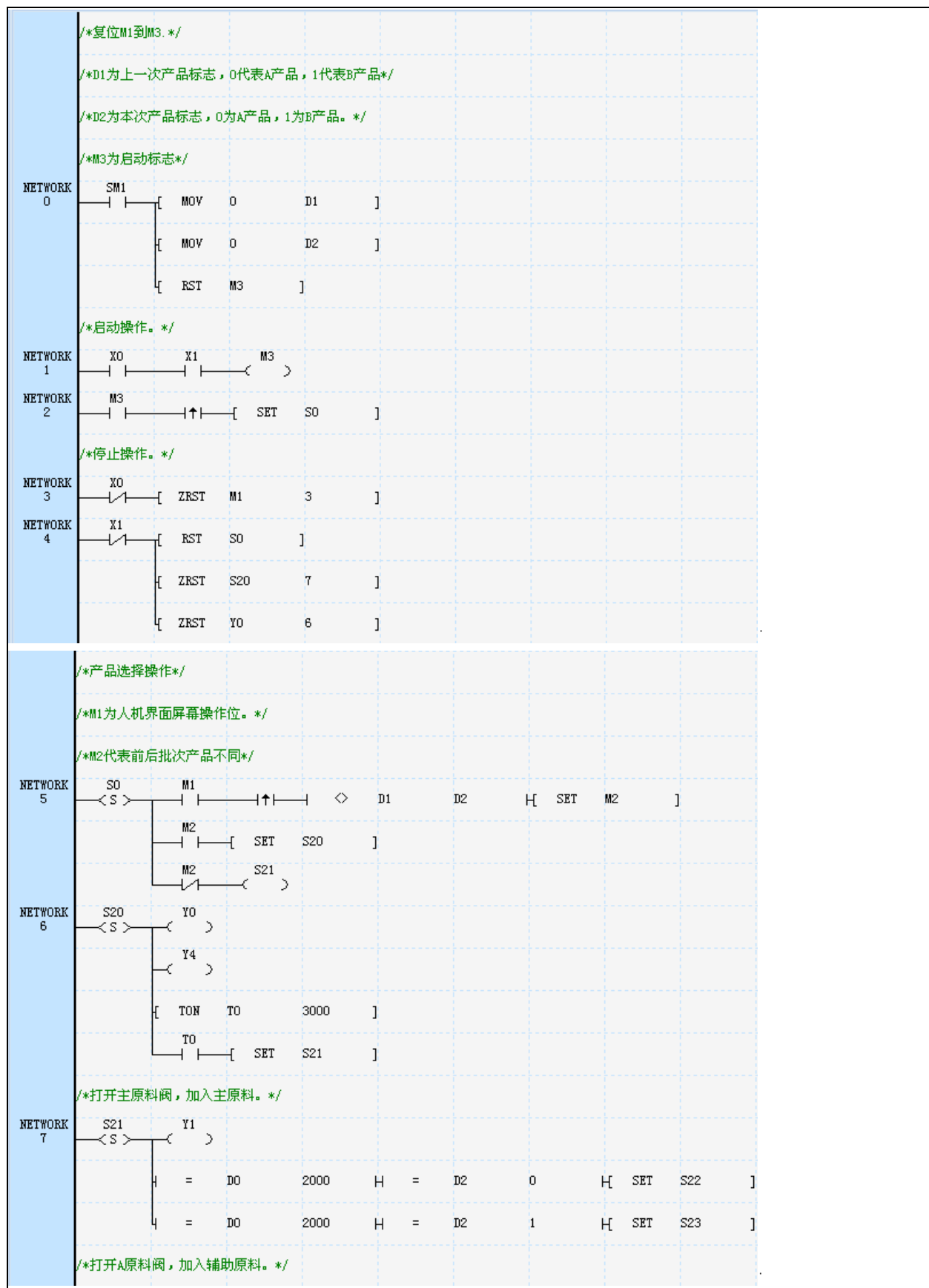


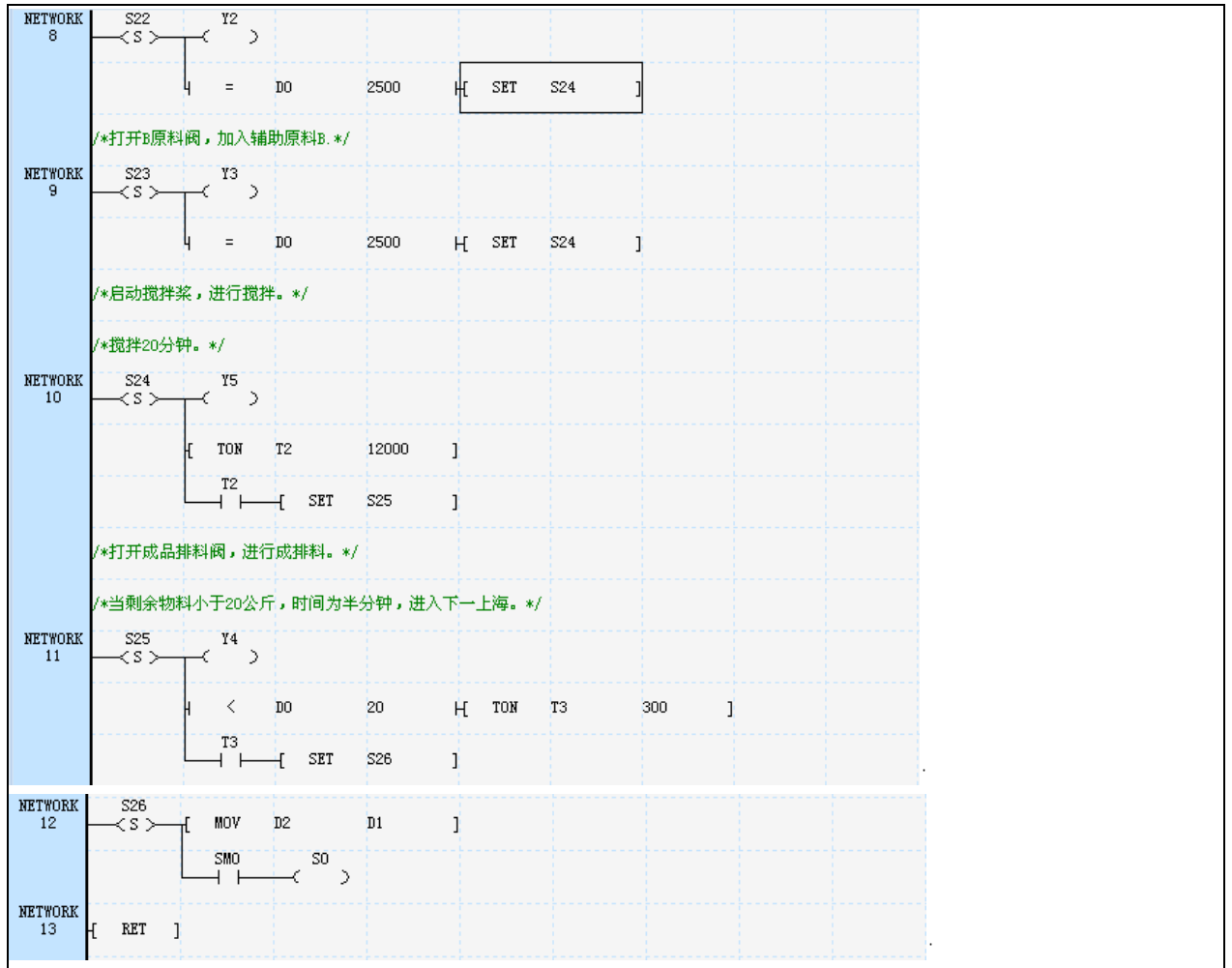


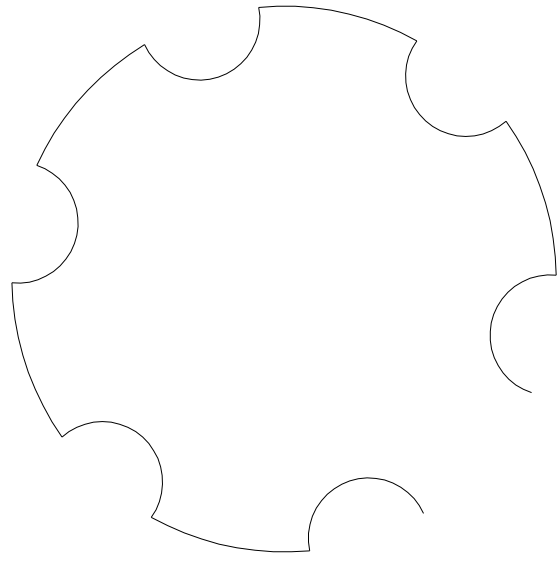
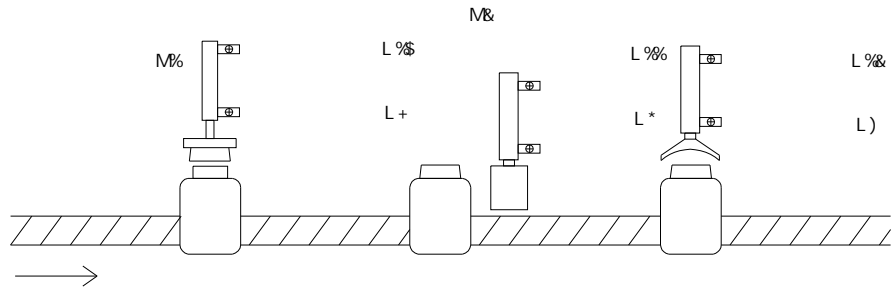
%	L\$			%\$	L%\$	
&	L%			%%	L%&	
'	L&			%&	M\$	
(L'			%'	M%	
)	L(5		%(M&	5
*	L)	5		%)	M'	6
+	L*	6		%'	M(
,	L+	6		%&	M)	
-	L%\$					

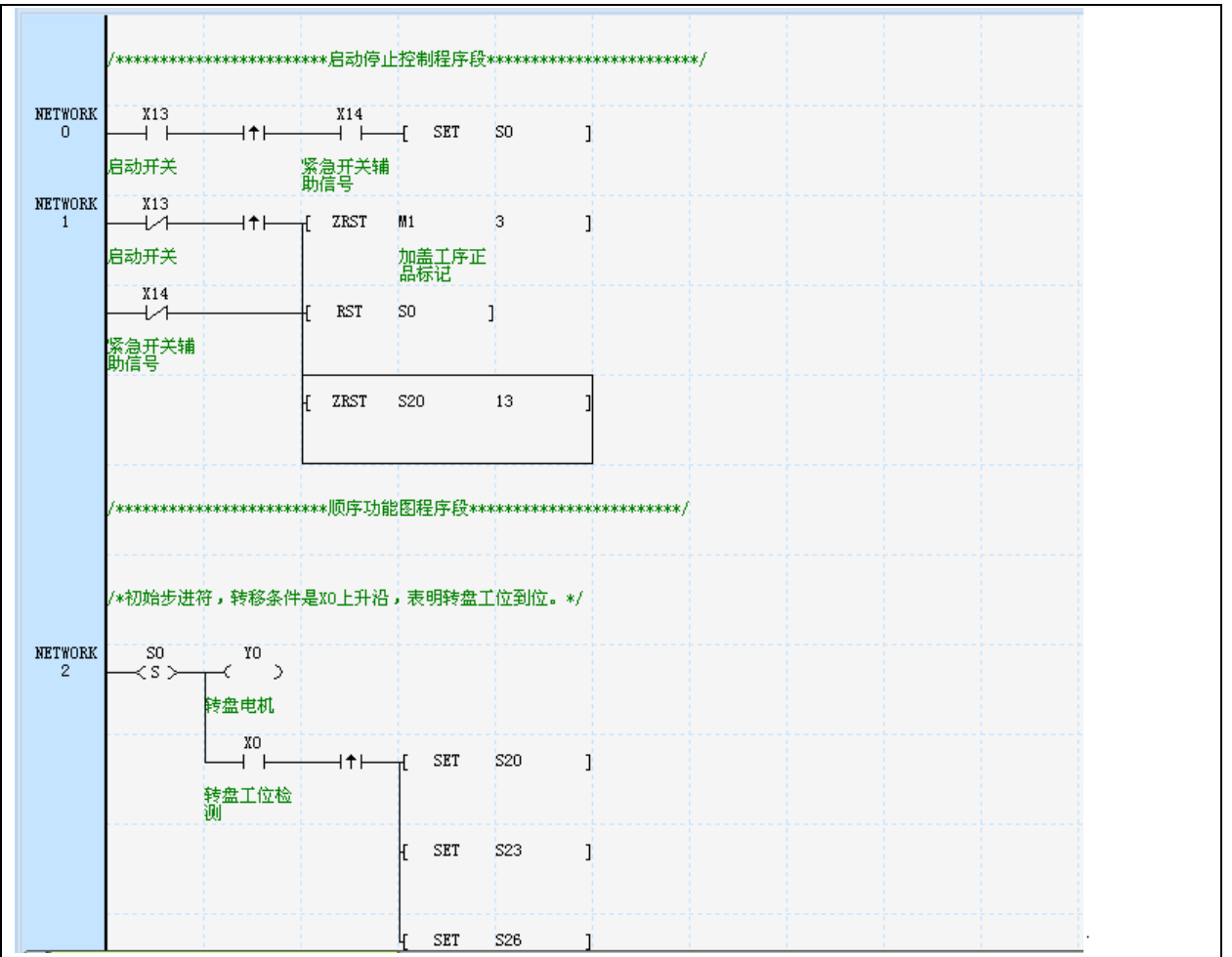
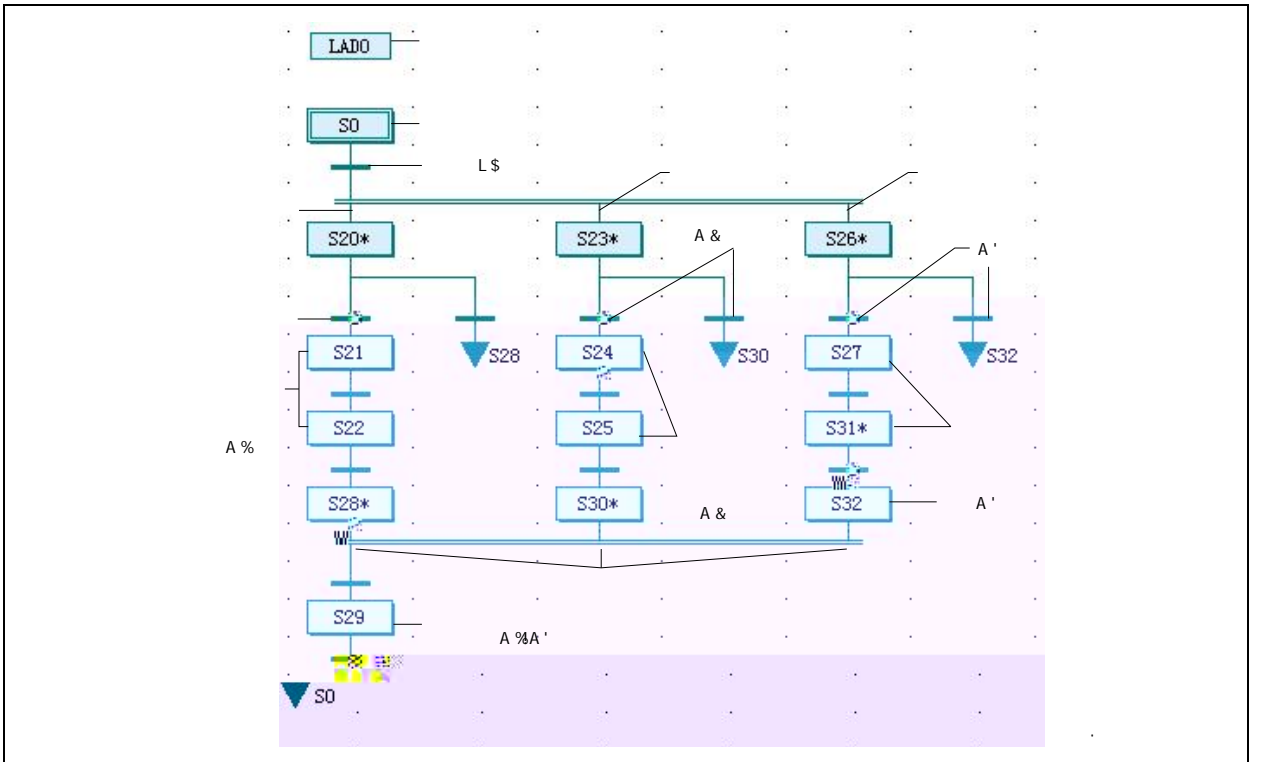
5 6

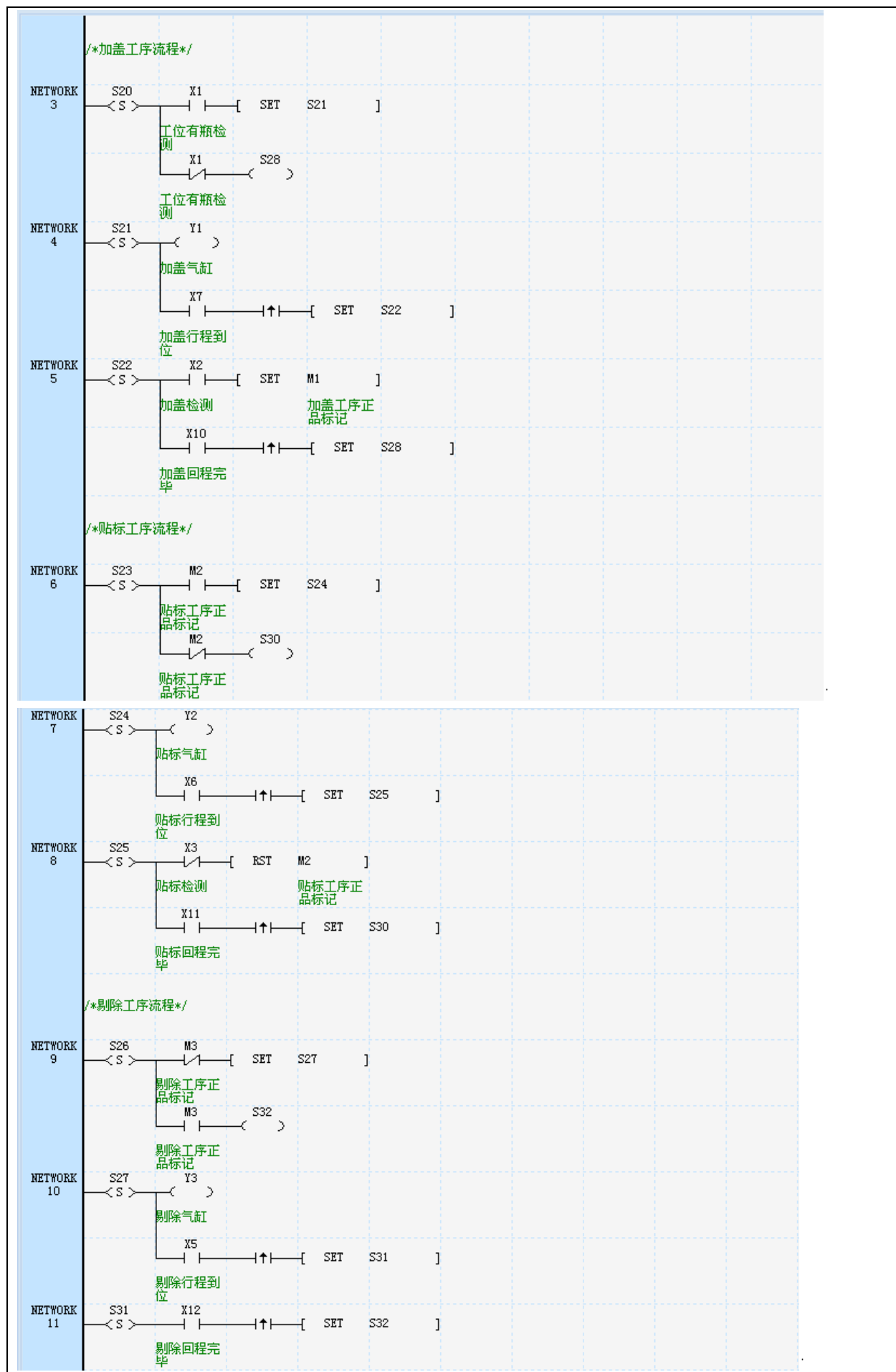


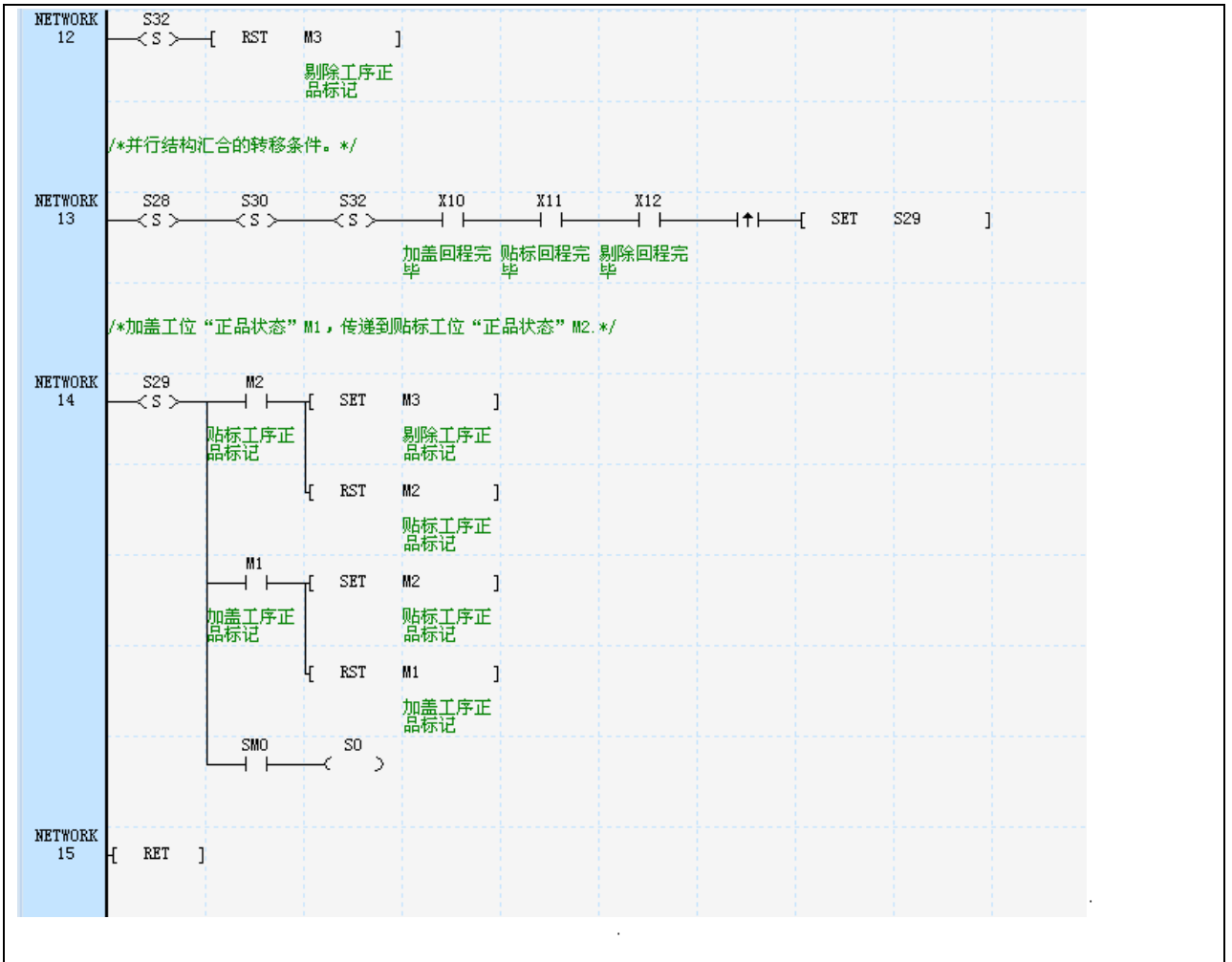












, '%&+-
, '%%&+-
, '%&A 7 D@7& \$
, '% GA& \$
, '%(.....& &
, '%) A 7&\$\$ A 7%\$\$&)
, '&&)
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A 7 D@7

	7&* #									%\$\$)\$
	7&+ #										%\$
	7&, #										#
	7&- #										%\$
	7&(\$ #										#
	7&(% #										%\$
	7' \$% #										#
	7' \$& #										%\$
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	7&() #										%\$
	7&(* #)\$
7&(+ #									%\$		
7' \$ #									#		
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7&(- #									%\$		
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7&% 5 6									'\$		
7' \$(5 6									#		
7' \$) 5 6)		
7' \$* 5 6									#		
7&& 5 6)\$		
7&' 5 6									#		
7&(' 5 6)\$		
7&) 5 6									#		
7&* fl% 5 6)\$		
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7&- fl% 5 6									#		

D@7

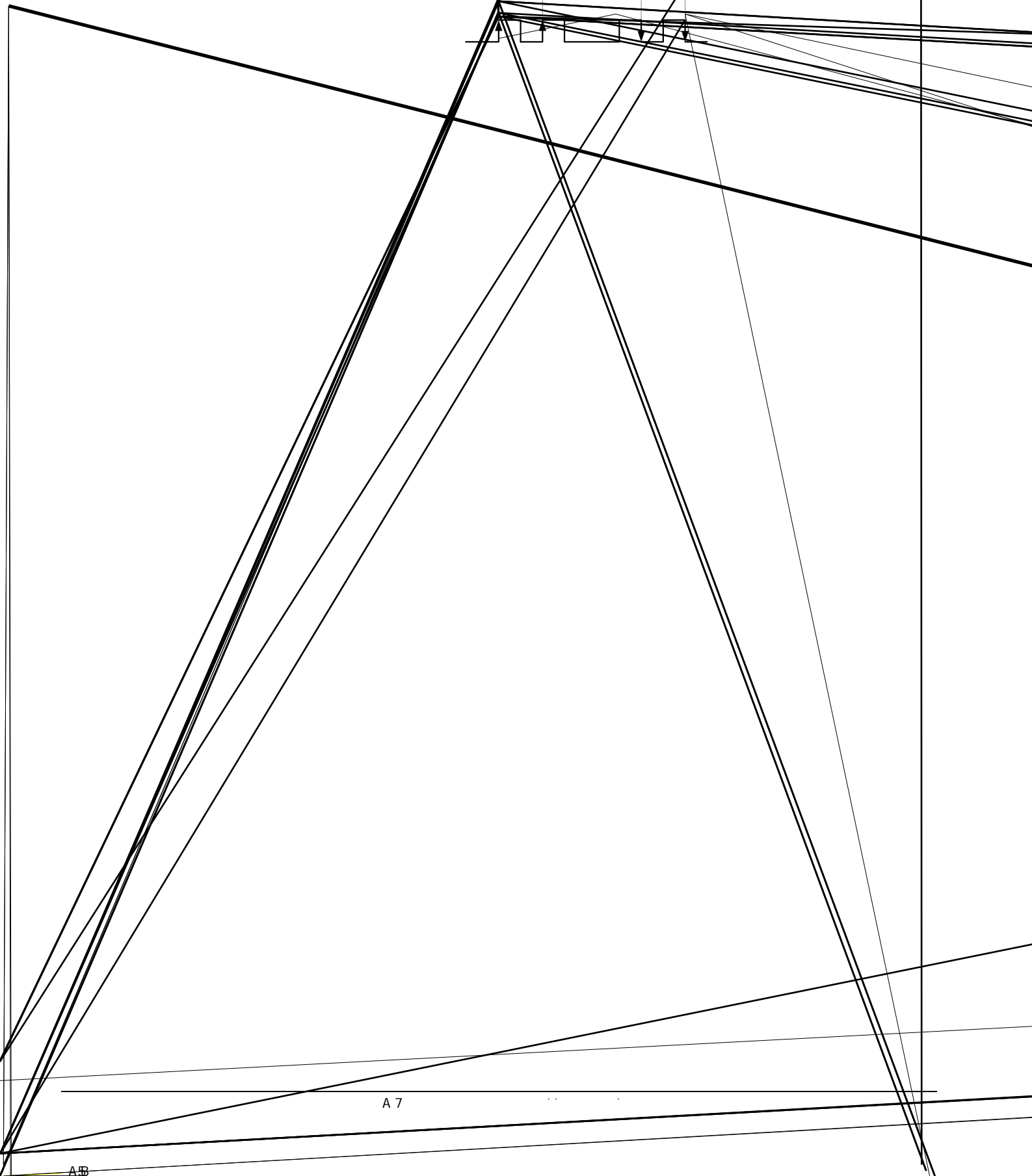
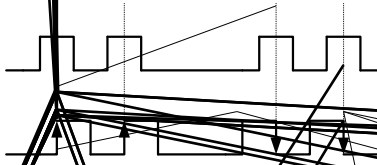
' & # #

	GA &* GA &()	GA '\$% GA '\$&	CB#C::	7&* 7&()	7' \$% 7' \$&	#
				7&(* 7&)\$ 7' \$	#	GA &(* GA &)\$
GA '\$			GA	C::	CB	

& \$



GA %\$\$ GA %\$(C:: / 7&)% 7&)- 7'\$(7' \$* 9
GA &)% GA &)- GA '\$(GA '\$* GA C:: CB



A 7

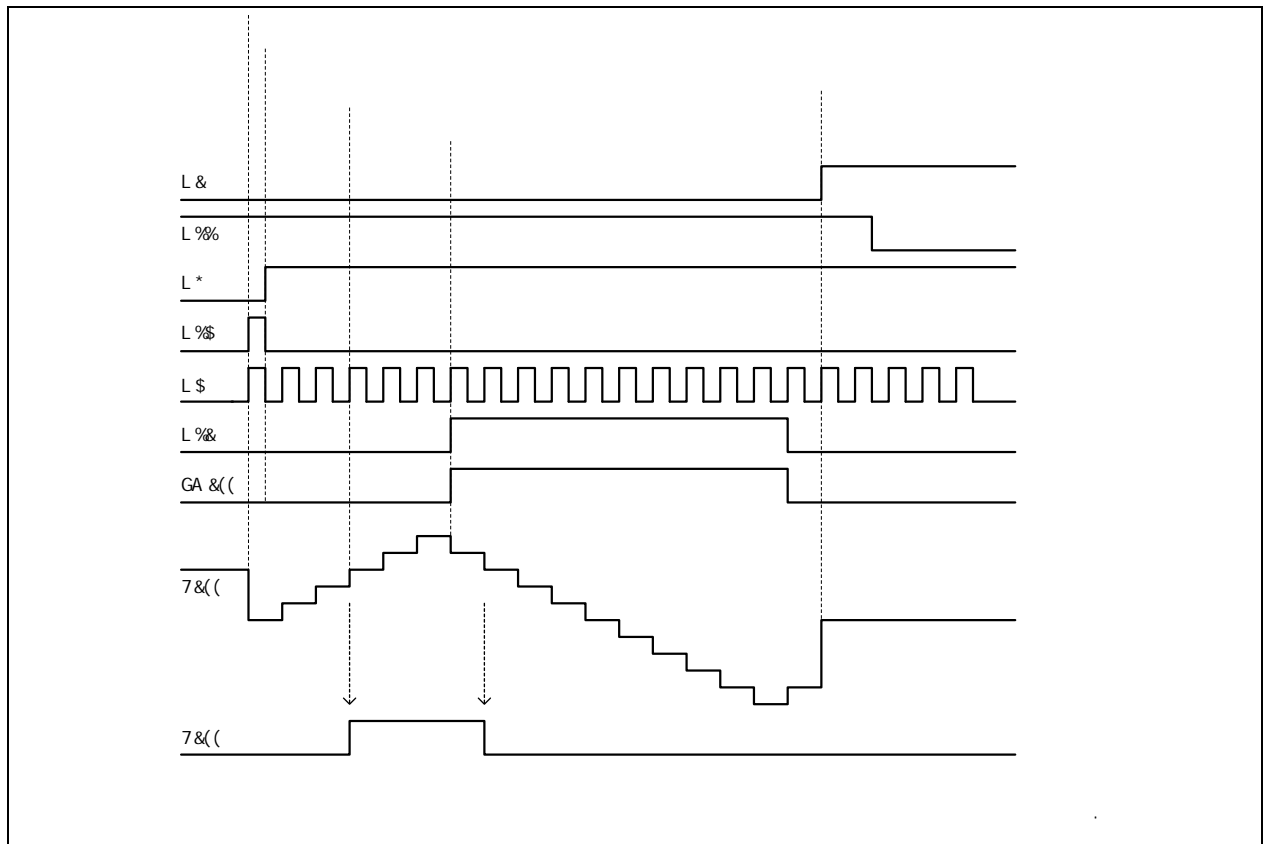
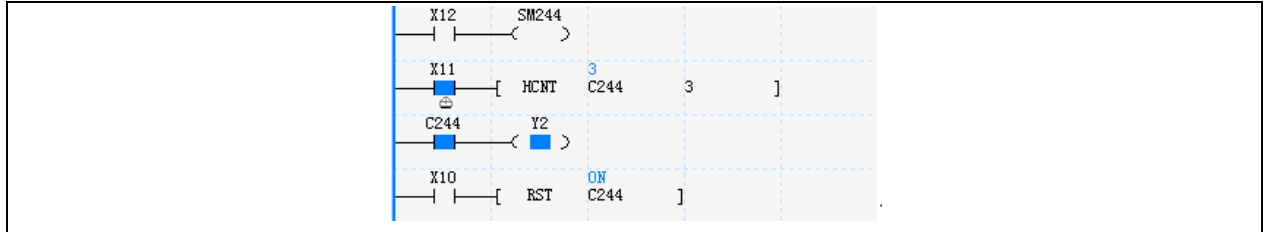
A B

	7 & %	GA %\$
	7 & &	GA %\$
	7 & ' .	GA %&
	7 & (.	GA %\$
	7 &) .	GA %&
	7 & * .	GA %\$
	7 & + .	GA %%
	7 & , .	GA %\$.
	7 & - .	GA %\$ (.
	7 ' \$ (.	GA %%
	7 ' \$) .	GA %\$.
	7 ' \$ * .	GA %\$ (.

	7 & (* .	GA & (* .
	7 & (+ .	GA & (+ .
	7 & (, .	GA & (, .
	7 & (- .	GA & (- .
	7 &) \$.	GA &) \$.
	7 ' \$ ' .	GA ' \$ ' .
	7 & %	GA &) %
	7 & &	GA &) &
	7 & ' .	GA &) ' .
	7 & (.	GA &) (.
	7 &) .	GA &)) .
	7 & * .	GA &) * .
	7 & + .	GA &) + .
	7 & , .	GA &) , .
	7 & - .	GA &) - .
	7 ' \$ (.	GA ' \$ (.
	7 ' \$) .	GA ' \$) .
	7 ' \$ * .	GA ' \$ * .

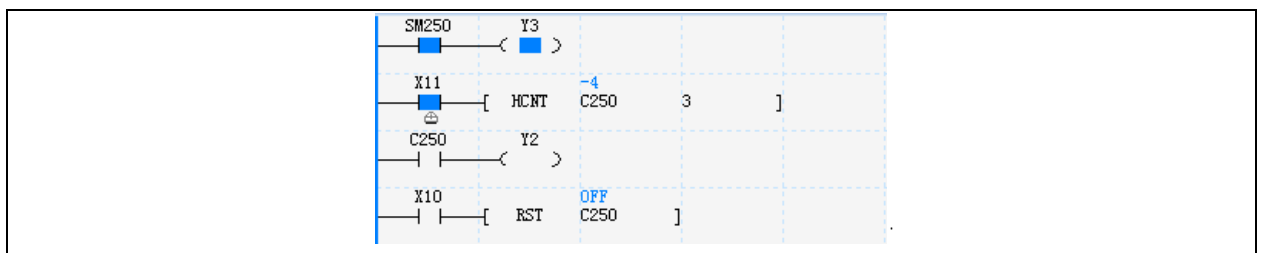
C: : CB

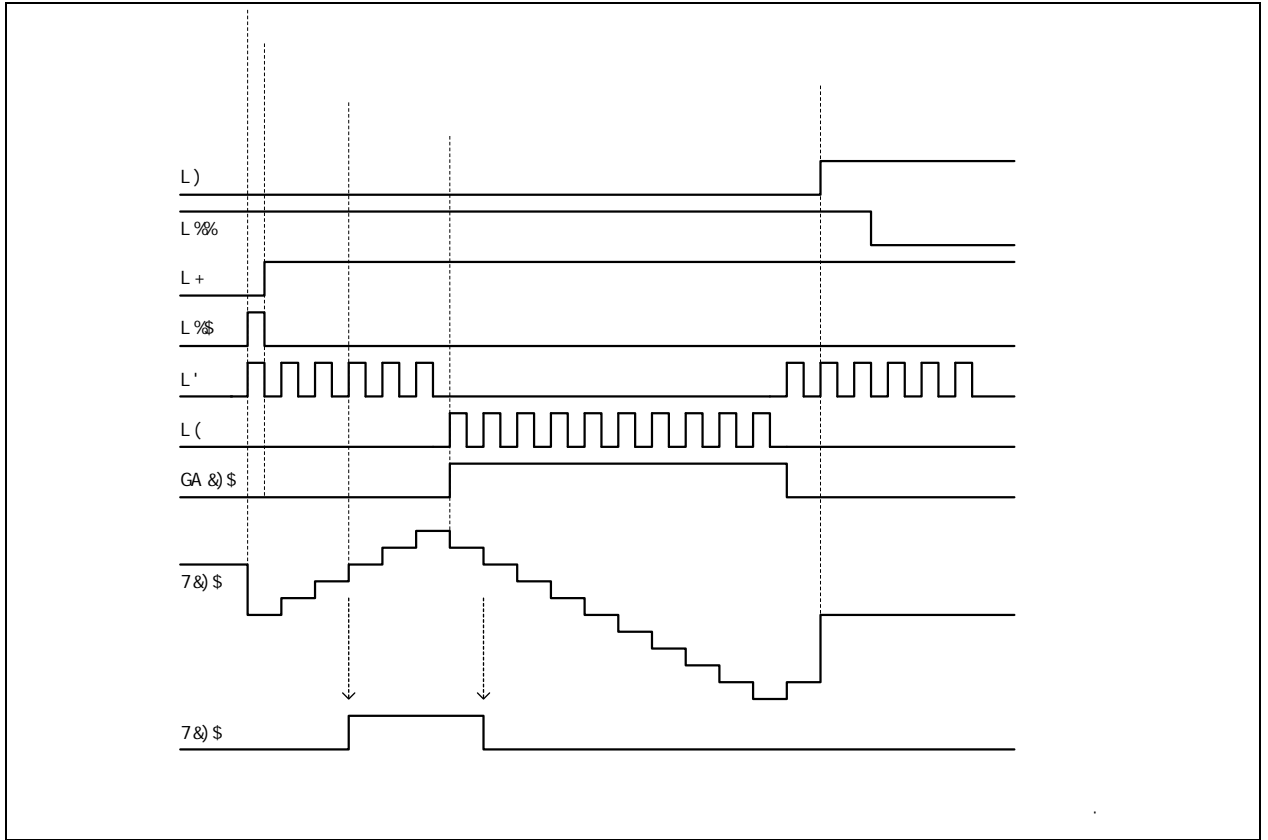
GA



C: : CB

GA

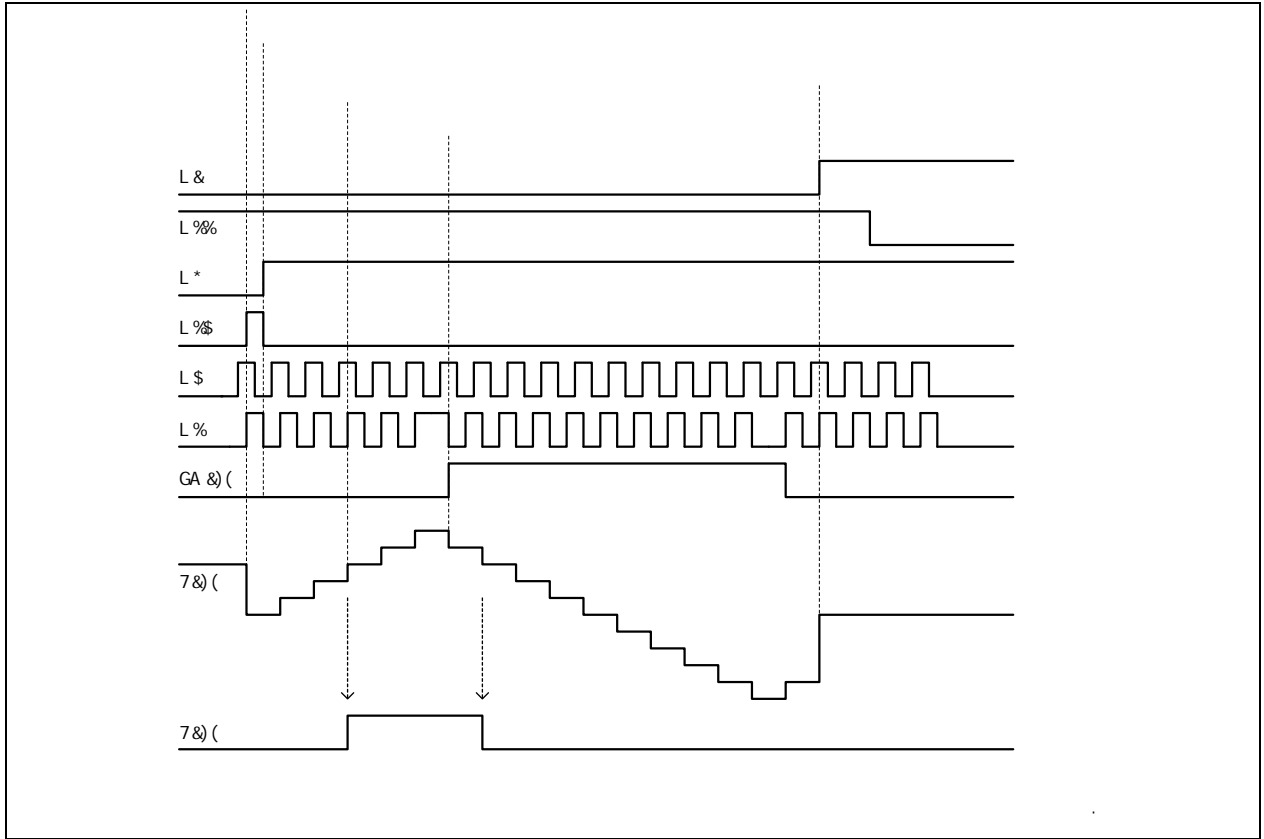




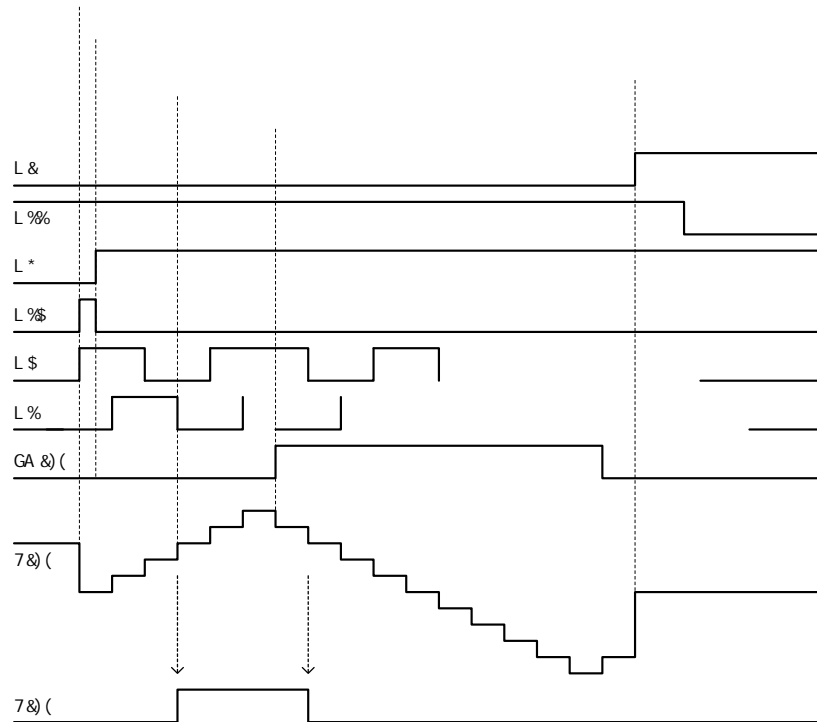
C:: CB

GA





C:: CB CB C::
GA



7&* 7&+ 7&(* 7&)% #

GD8

, \$<nfA 7%\$\$ *\$<nt
GD8

8<G7G 8<G7F 8<G7= 8<GN 8<GD 8<GH	, \$<n fA 7%\$\$ *\$<nt
8<G7G 8<G7F 8<G7= 8<GD 8<GH	' \$<n
8<GN	&\$<n

7&* 7&+ 7&(* 7&)%

- 7&* 7&+ 7&(*)\$<n
- 7&)% '\$<n

8<G7G 8<G7F 8<G7= 8<GD 8<GH
 %\$<n)<n
 8<GN)<n (<n

L\$ L+ GA

L\$	GA -\$
L%	GA -%
L&	GA -&
L'	GA -'
L(	GA -(
L)	GA -)
L*	GA -*
L+	GA -+



% C:: CB GA CB
 & GA -\$ GA -+ <7BH GD8
 ' D@7
 (<7BH GD8
) L\$rL+ GD8 <7BH , \$
 8<G7G 8<57= 8<GD 8<GH '\$

L\$ L+

GD8

D@7

%

L\$ L+

L\$ L+

GD8

	7&*'	#	%\$\$	
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	7&(\$	#		%\$
	7&(%	#	.	.	.		%\$
	7' \$%	#	.	.		#
	7' \$&	#	.		#
	7&(&	#
	7&('	.	.	.	#		%\$
	7&('	#		%\$
7&()	.	.	.	#	#		
	7&(*	%\$\$	
	7&(+)\$
	7' \$'		%\$
	7&,'		#
	7&(-		%\$
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7&)%	5	6	'\$		
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7' \$)	5	#	

)\$

GA %		\$%a g %	F #K	
G8 %		!&&- +% \$%a g % GA % \$%a &&- +%	F #K	!&&- +%

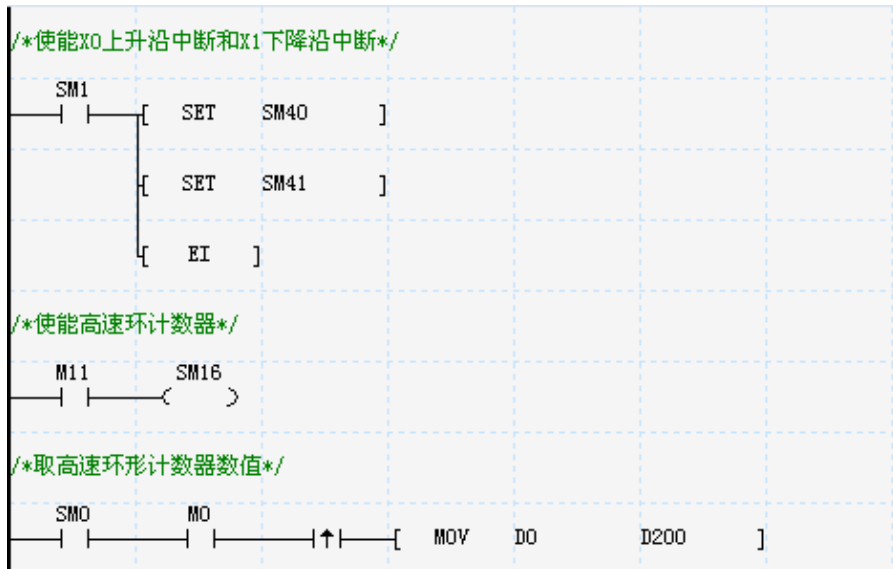
G8 %

L \$ L %

L \$ L %

8&&\$

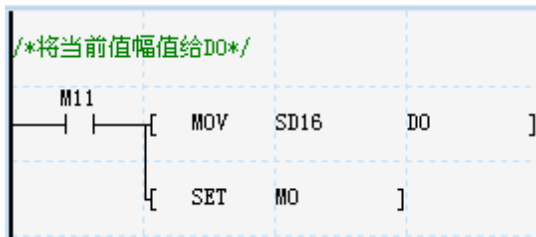
\$%a g



L \$



L %



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D@7



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D@7

\$	&*	G8**	GA**
%	&+	G8*+	GA*+
&	&	G8*,	GA*,



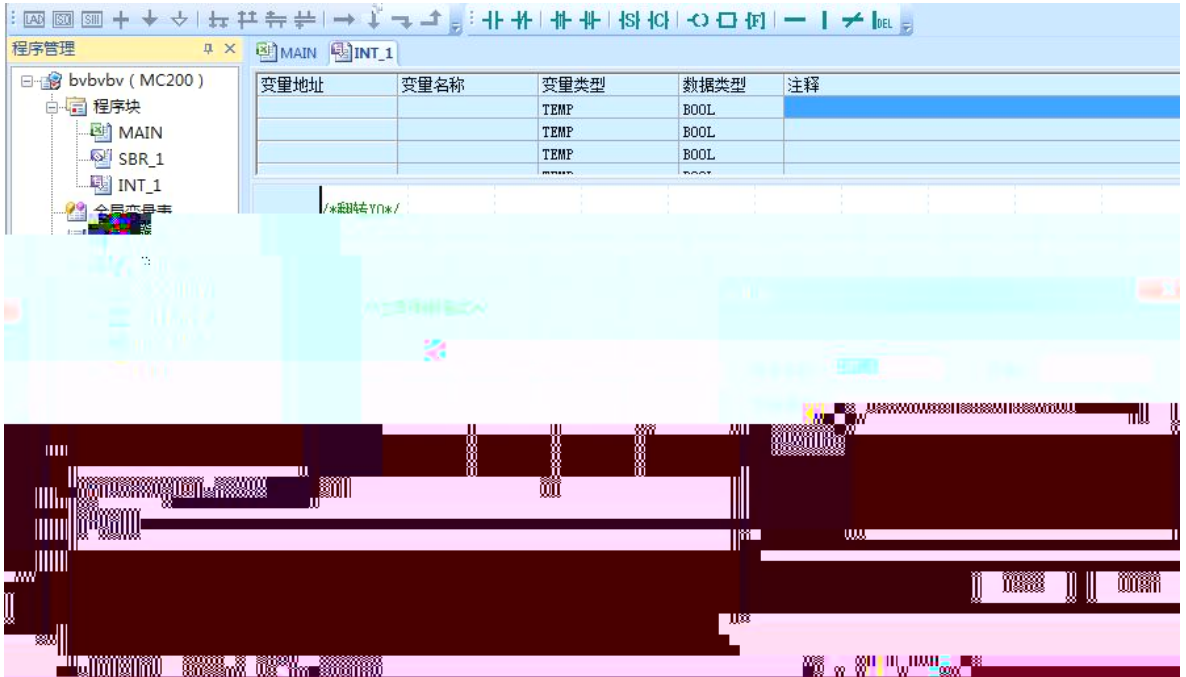
%

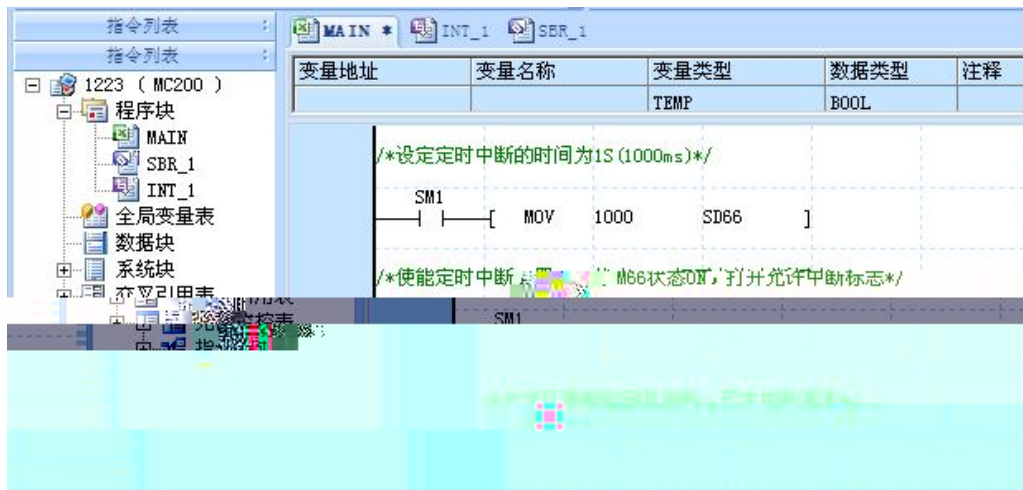
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D@7

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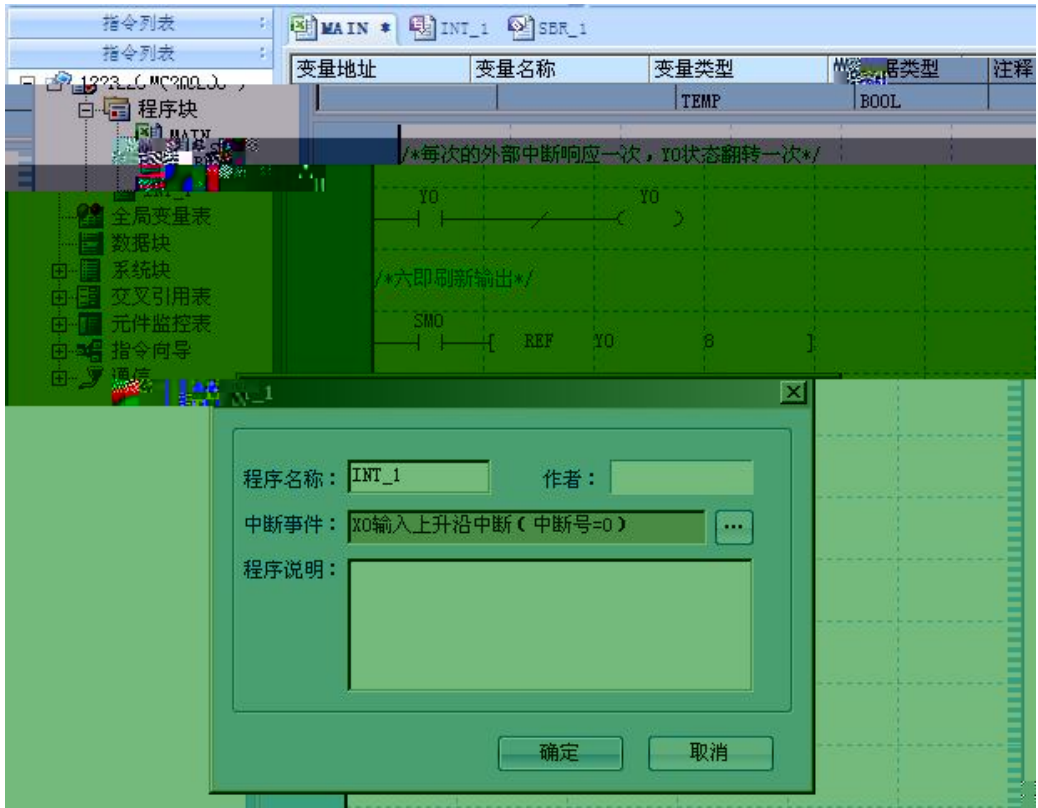
\$	%\$	GA (\$	(%	GA ((
%	%%	GA (%))	%	GA ()
&	%&	GA (&	*	%*	GA (*
'	%'	GA ('	+	%+	GA (+

\$	L\$	-	
%	L%	%\$	L\$
&	L&	%%	L%
'	L'	%&	L&
(L(%'	L'
)	L)	%	L(
*	L*	%	L)
+	L+	%*	L*
		%+	L+

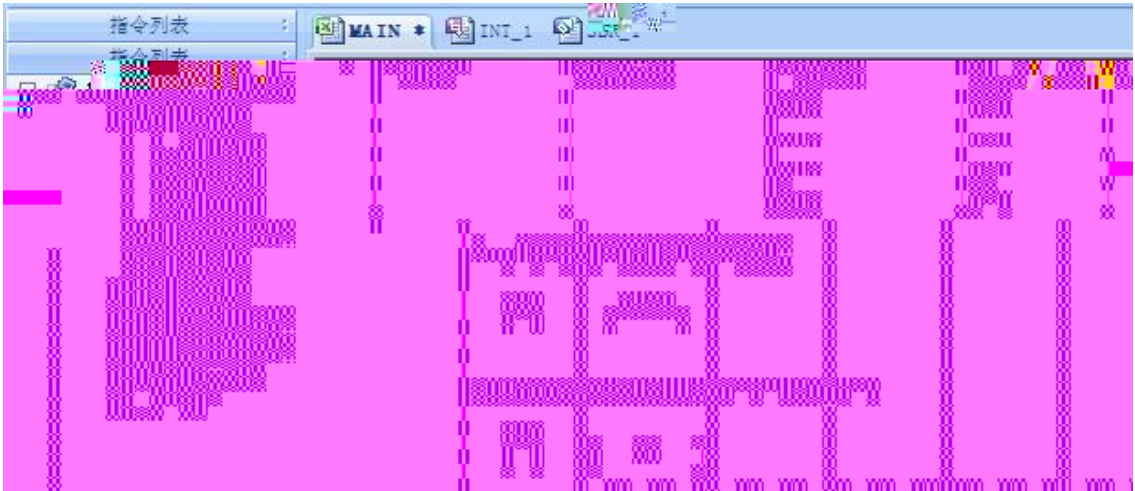
L\$ L+

O&&\$<n

L\$ \$ L\$ M\$
% M\$



& 9= L\$ GA(\$



<7BH 8<G7= &\$ &)

9=

GA ** GA *(M\$ M% DHC

A 7%\$\$

M\$ M\$ %

BHS%
BHS%

The screenshot shows the SIMATIC Manager interface. On the left is a project tree for station 1223 (MC200), showing a hierarchy of program blocks including MAIN, SBR_1, and INT_1. The main window displays a variable declaration table for the INT_1 program:

变量地址	变量名称	变量类型	数据类型	注释
		TEMP	BOOL	
		TEMP	BOOL	
		TEMP	BOOL	
		TRMP	BOOL	

Below the table, a ladder logic diagram shows an SMO instruction with parameters [INC D17]. A dialog box titled 'INT_1' is overlaid on the screen, containing the following information:

- 程序名称: INT_1
- 作者: []
- 中断事件: PTO (YO) 输出完成中断 (中断号=18)
- 程序说明: []

Buttons for '确定' (OK) and '取消' (Cancel) are visible at the bottom of the dialog.

&

A 5-B

DHC

GA **

D@G

The screenshot shows the SIMATIC Manager interface. On the left is a project tree for station 1223 (MC200), showing a hierarchy of program blocks including MAIN, SBR_1, and INT_1. The main window displays a variable declaration table for the INT_1 program:

变量地址	变量名称	变量类型	数据类型	注释
		TEMP	BOOL	
		TEMP	BOOL	
		TEMP	BOOL	

Below the table, a ladder logic diagram shows an SMO instruction with parameters [EI]. A note in Chinese is present: /*注意：调用高速输出PLS指令前请确认初始化参数是否被设置。*/. Below the diagram, another note reads: /*注意：在开机时执行一次，若设置包络线参数有所改变则需重新调用一遍。*/. The diagram also shows an SMO instruction with parameters [SM63] and a series of DMOV instructions:

- SM1 [DMOV 5000 D3000]
- [DMOV 1000 D3002]
- [DMOV 6000 D3004]

GA)*

A 7%\$\$

The screenshot shows the SIMATIC Manager interface. On the left is a project tree with folders for '程序块' (Program Blocks) containing 'MAIN', 'COM1-SENOD', 'SBR_1', and 'SMO1-SENOD'. Below it are '全局变量表' (Global Variable Table), '数据块' (Data Blocks), '系统块' (System Blocks), '交叉引用表' (Cross-reference Table), '元件监控表' (Component Monitoring Table), '指令向导' (Instruction Wizard), and '通信' (Communication). The main window displays a variable declaration table:

变量地址	变量名称	变量类型	数据类型	注释
		TEMP	BOOL	
		TEMP	BOOL	
		TEMP	BOOL	

Below the table is a ladder logic diagram with the following steps:

```

/*翻转Y3*/
Y3 ---| |--- /---> Y3

/*立即刷新*/
SMD ---| |--- [ REF Y0 8 ]
    
```

An 'SMO1-SENOD' dialog box is open, containing the following fields:

- 程序名称: SMO1-SENOD
- 作者: []
- 中断事件: COM1的帧发送中断 (中断号=36)
- 程序说明: []

Buttons for '确定' (OK) and '取消' (Cancel) are at the bottom.

This screenshot shows the same SIMATIC Manager interface but with a different ladder logic diagram for the 'SMO1-SENOD' program. The variable declaration table is partially visible at the top:

变量地址	变量名称	变量类型	数据类型	注释
		TEMP	BOOL	
		TEMP	BOOL	
		TEMP	BOOL	

The ladder logic diagram consists of the following steps:

```

/*使系统中断使能有效*/
SMD ---| |--- [ EI ]

/*使XOM1发送帧中断有效*/
SM1 ---| |--- [ SET SM54 ]
    
```

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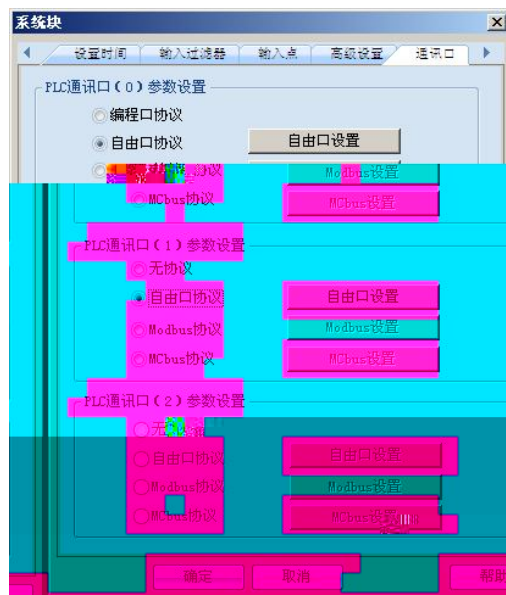
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	%	FG&' & FG(,)	A cXVi g A 7Vi g
A 7& \$	\$	FG&' &	A cXVi g A 7Vi g
	%	FG(,)	A cXVi g A 7Vi g
	&	FG(,)	A cXVi g A 7Vi g

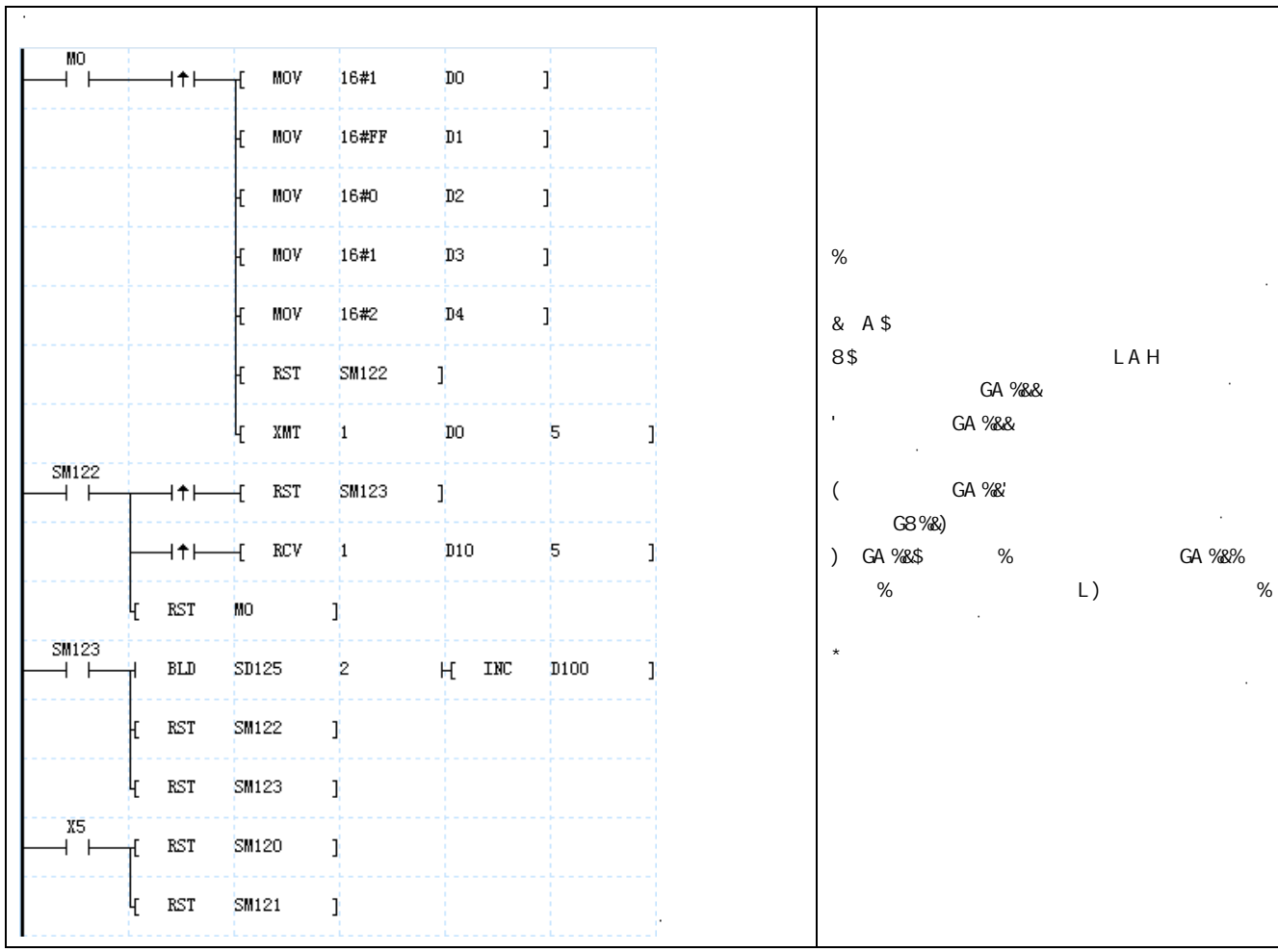
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5G7=

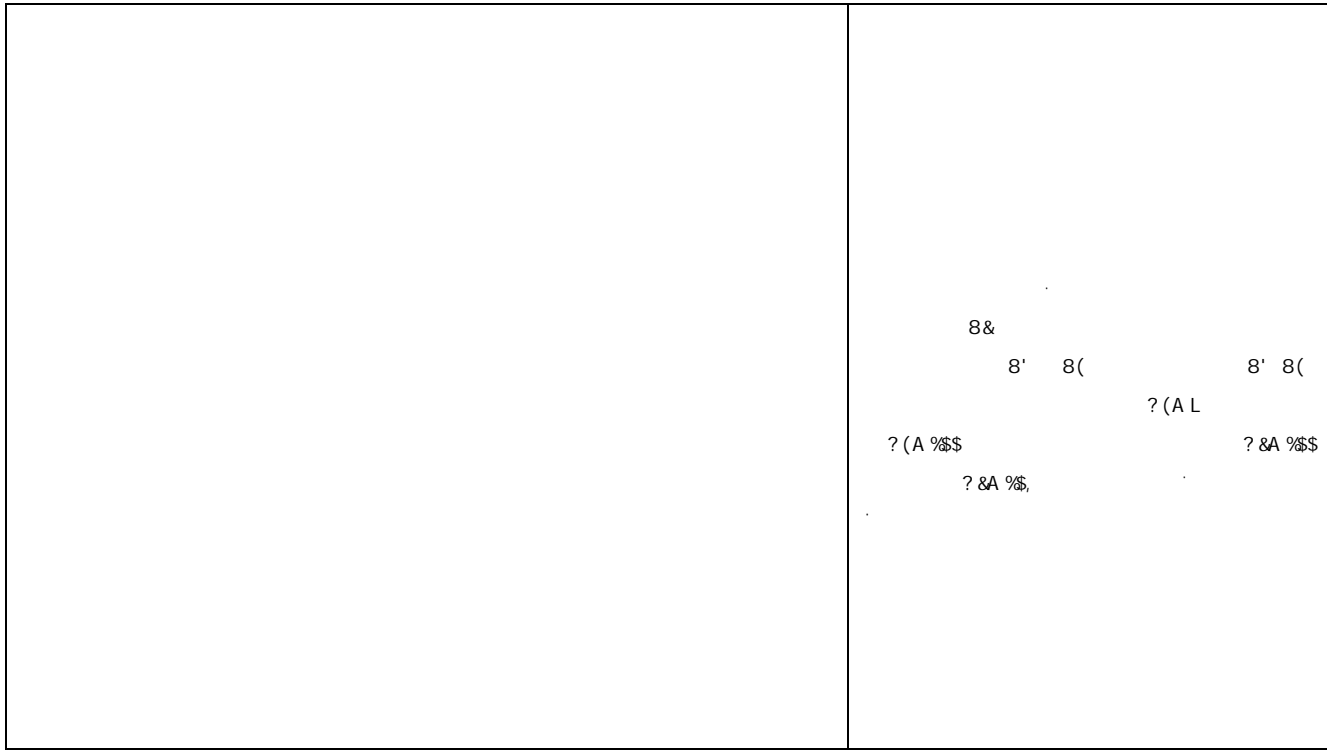
D@7 FI B LAH F7J



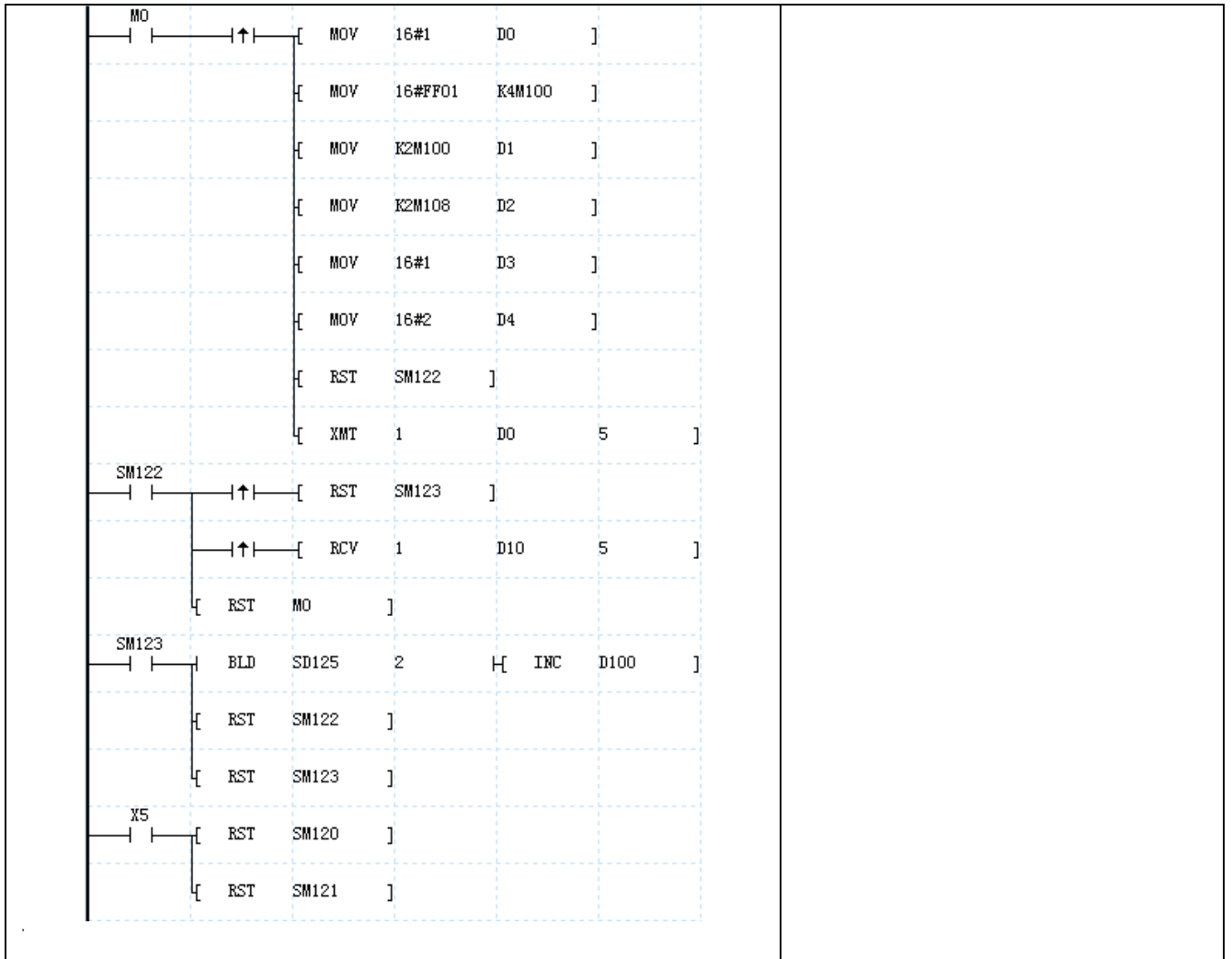


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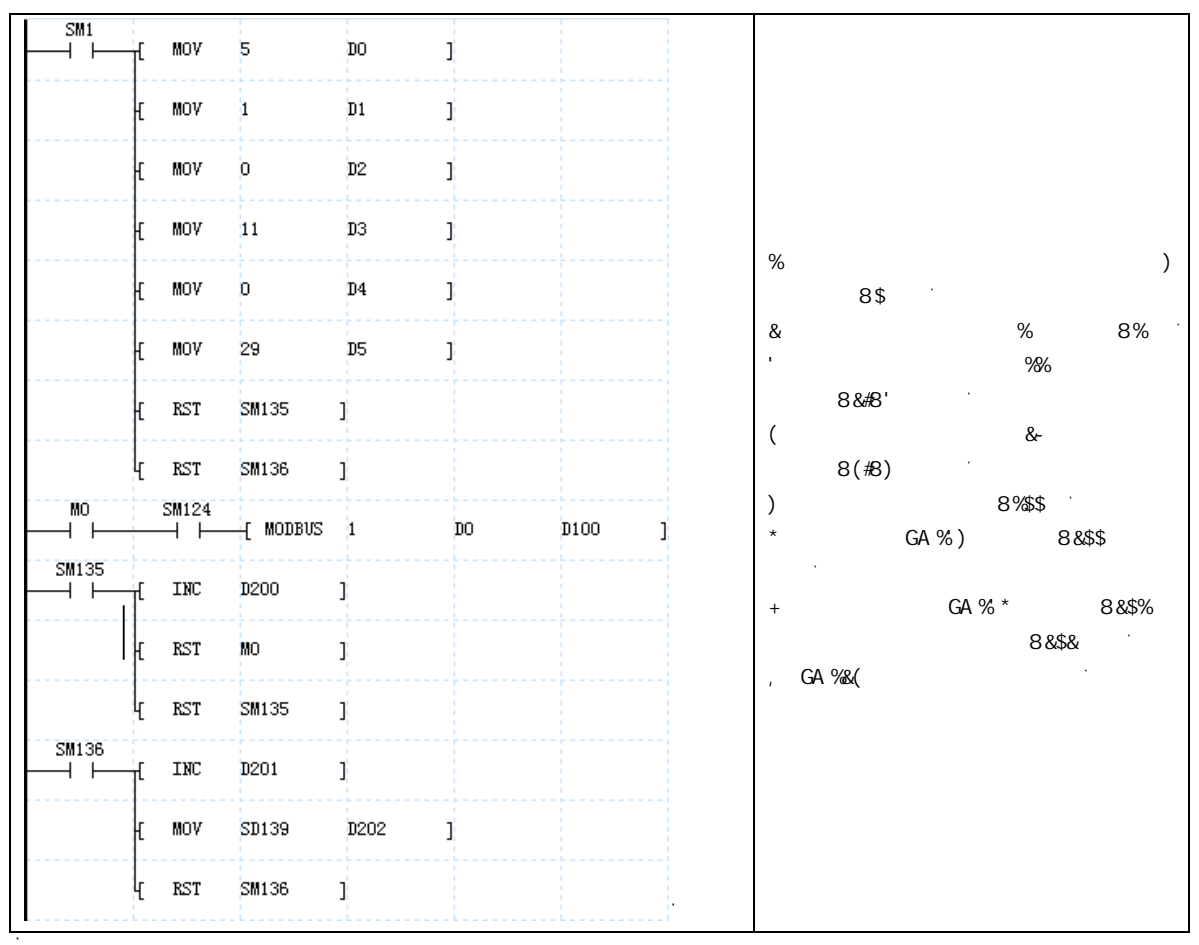
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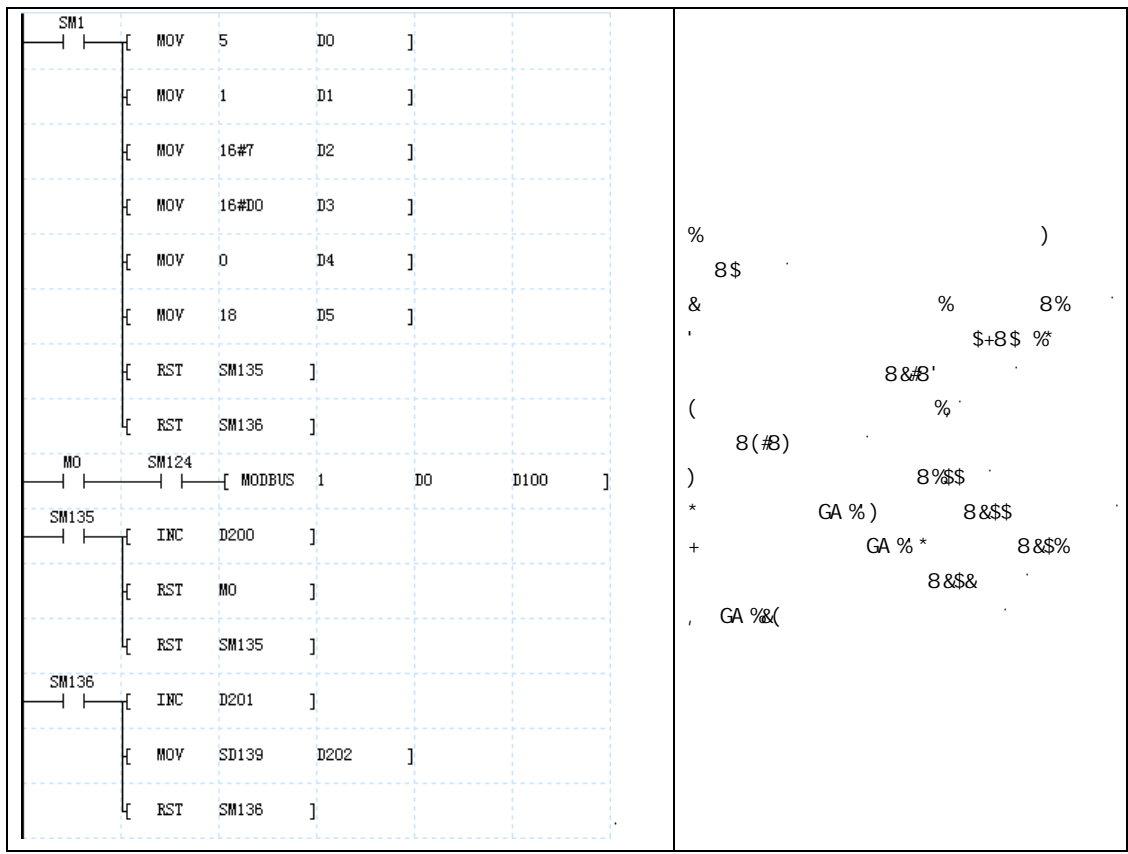
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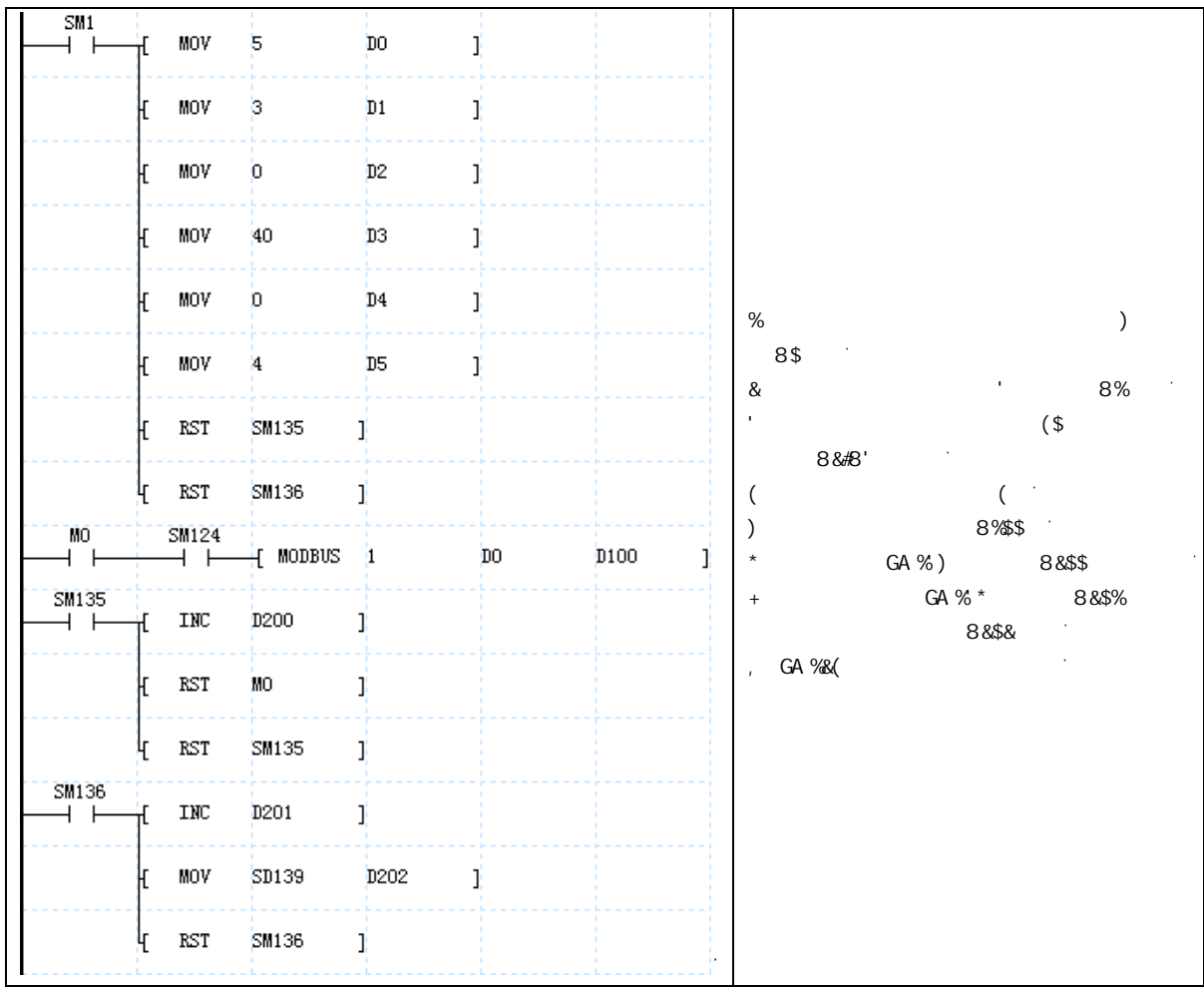
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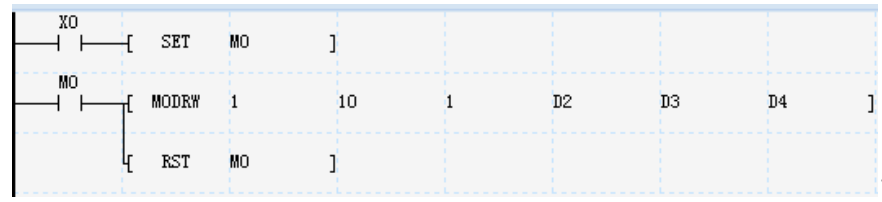
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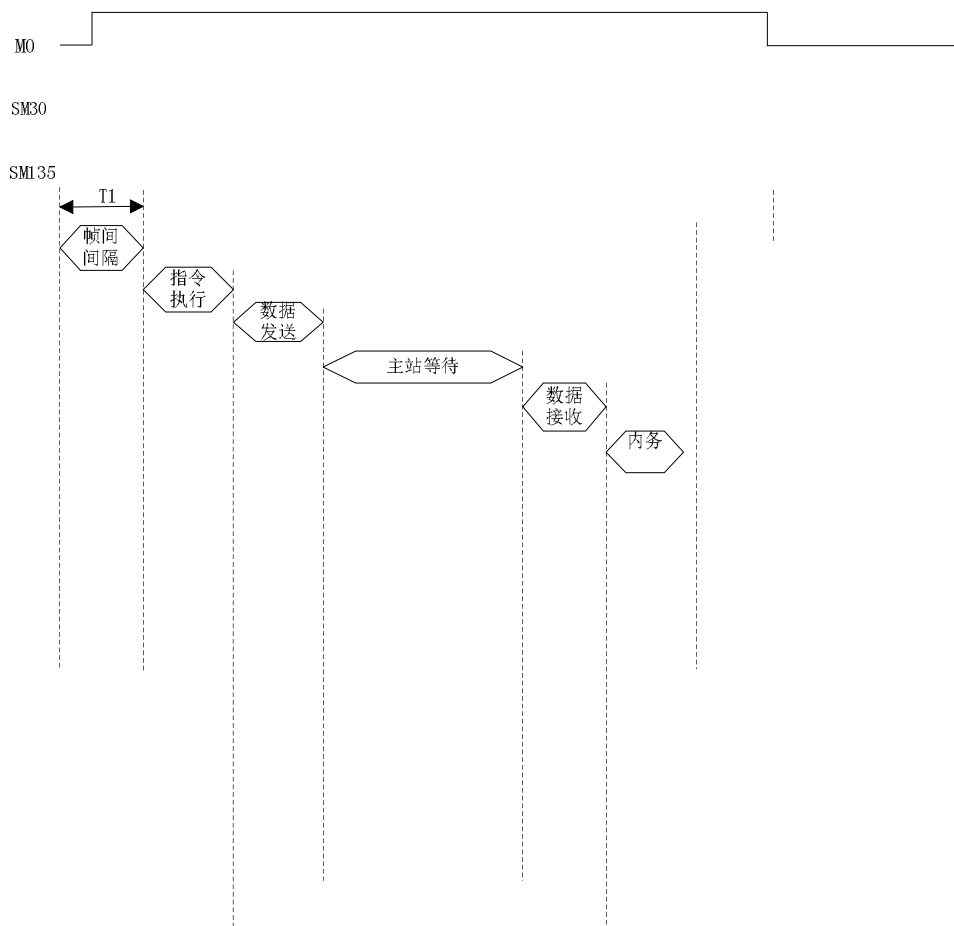
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$$T_{\&} = \frac{fVNTf)}{\%} \% * \$ ms$$

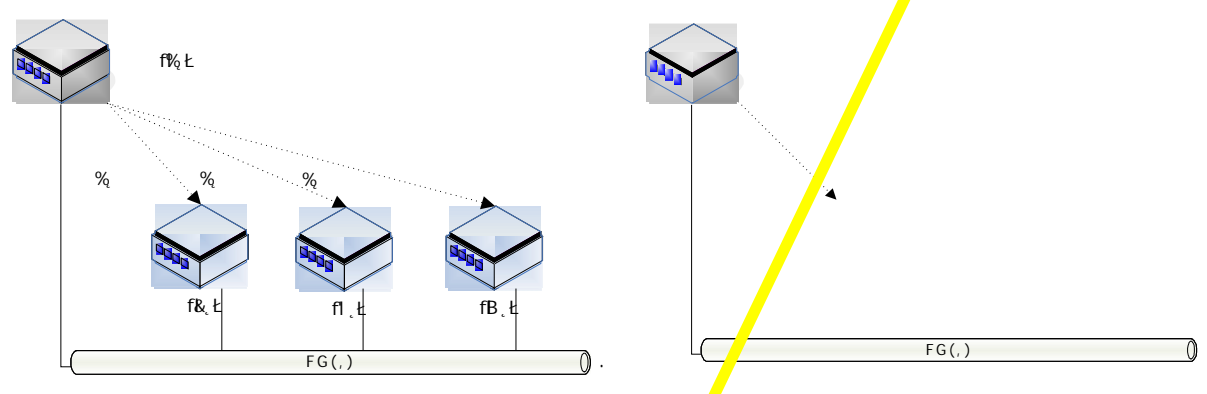
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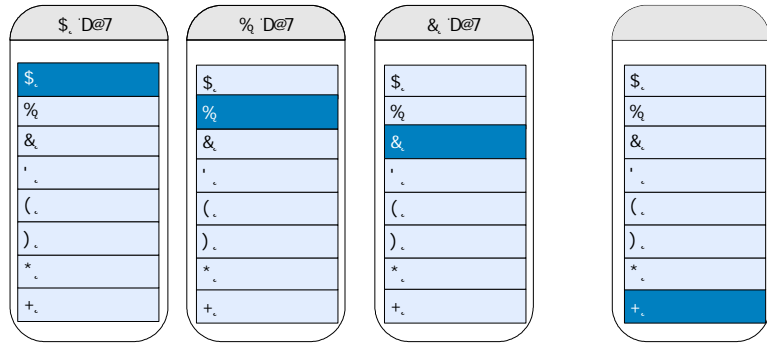


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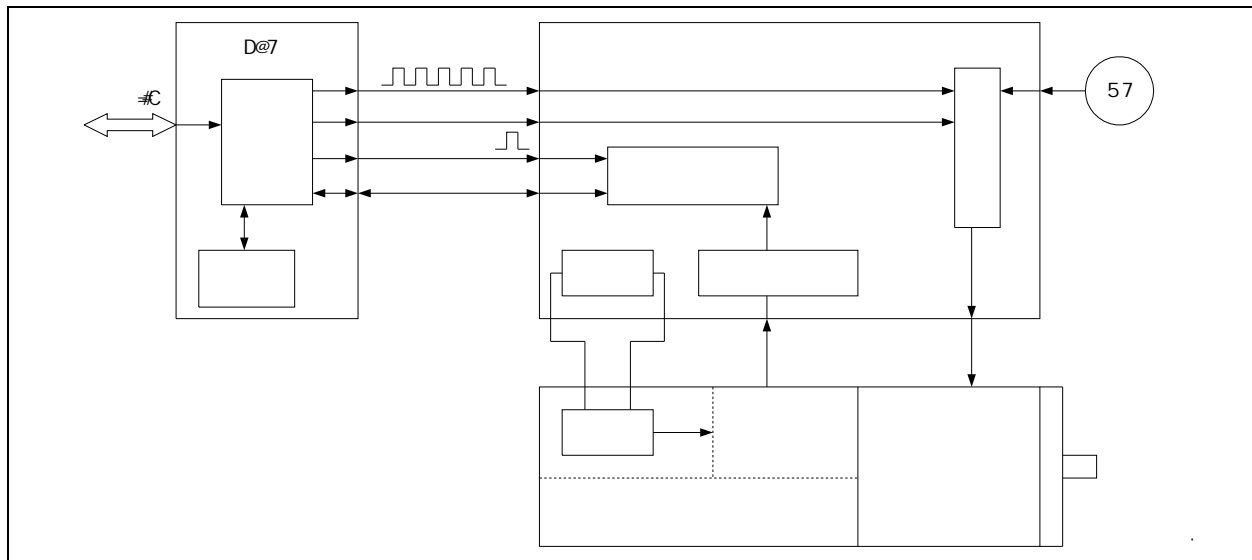
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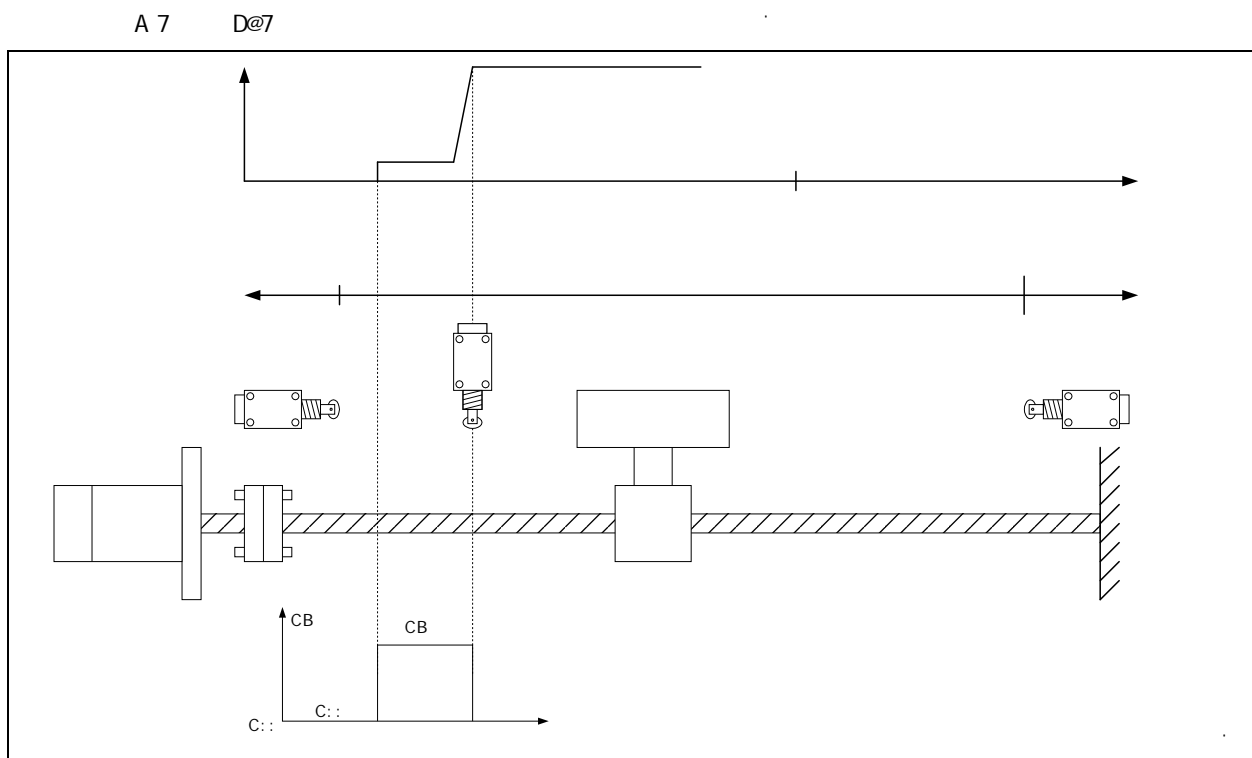
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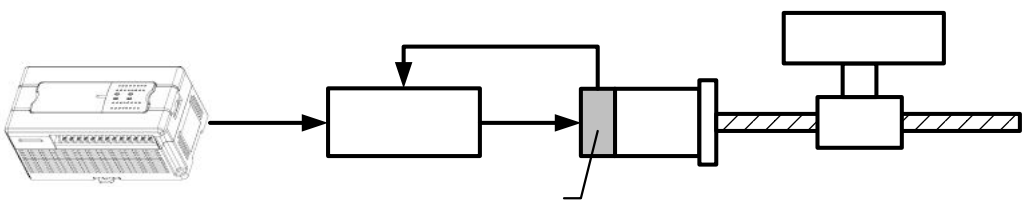
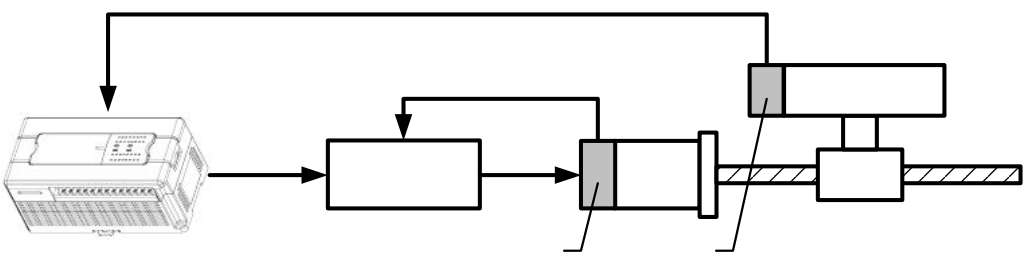
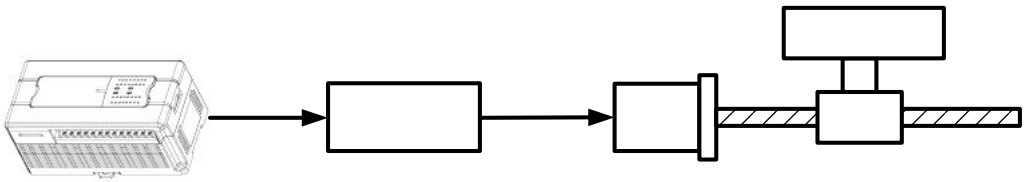
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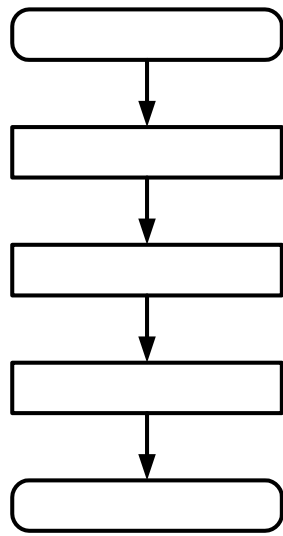
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11. 2 PLC

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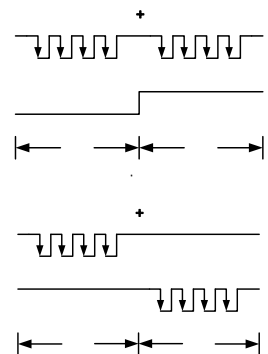
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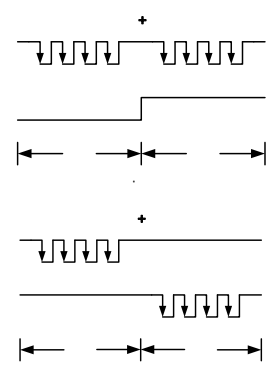
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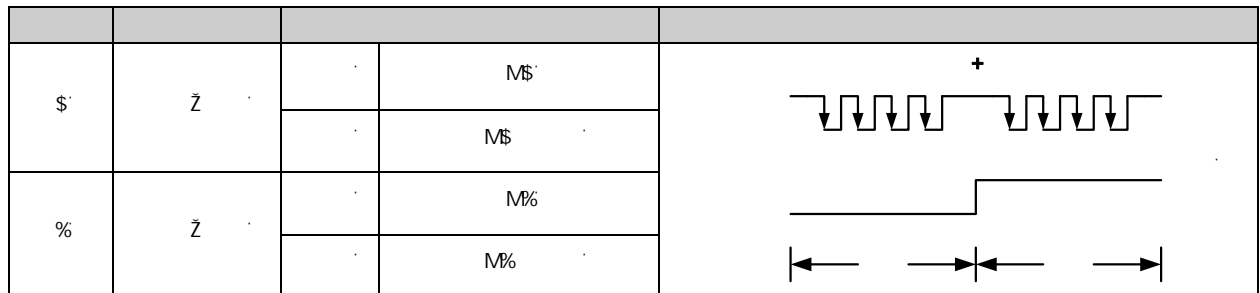
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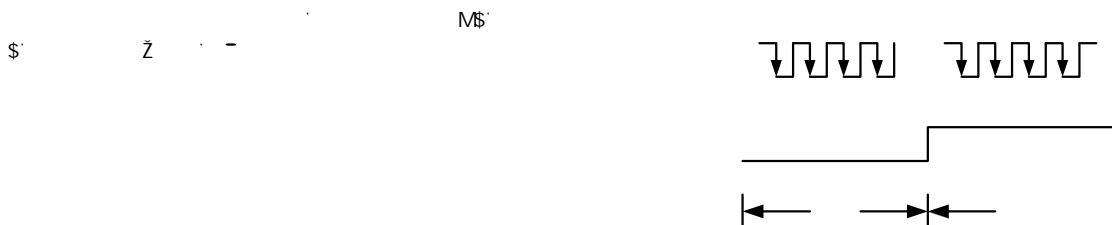
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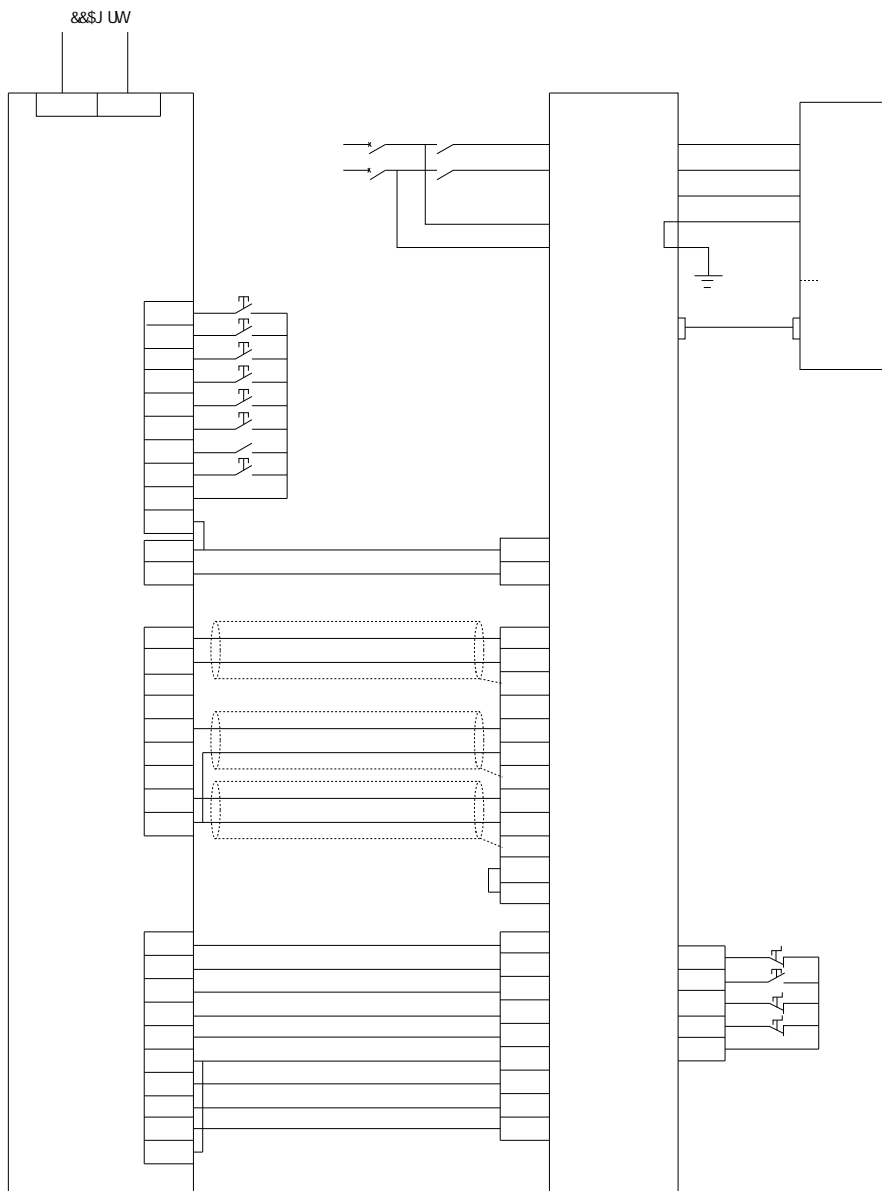
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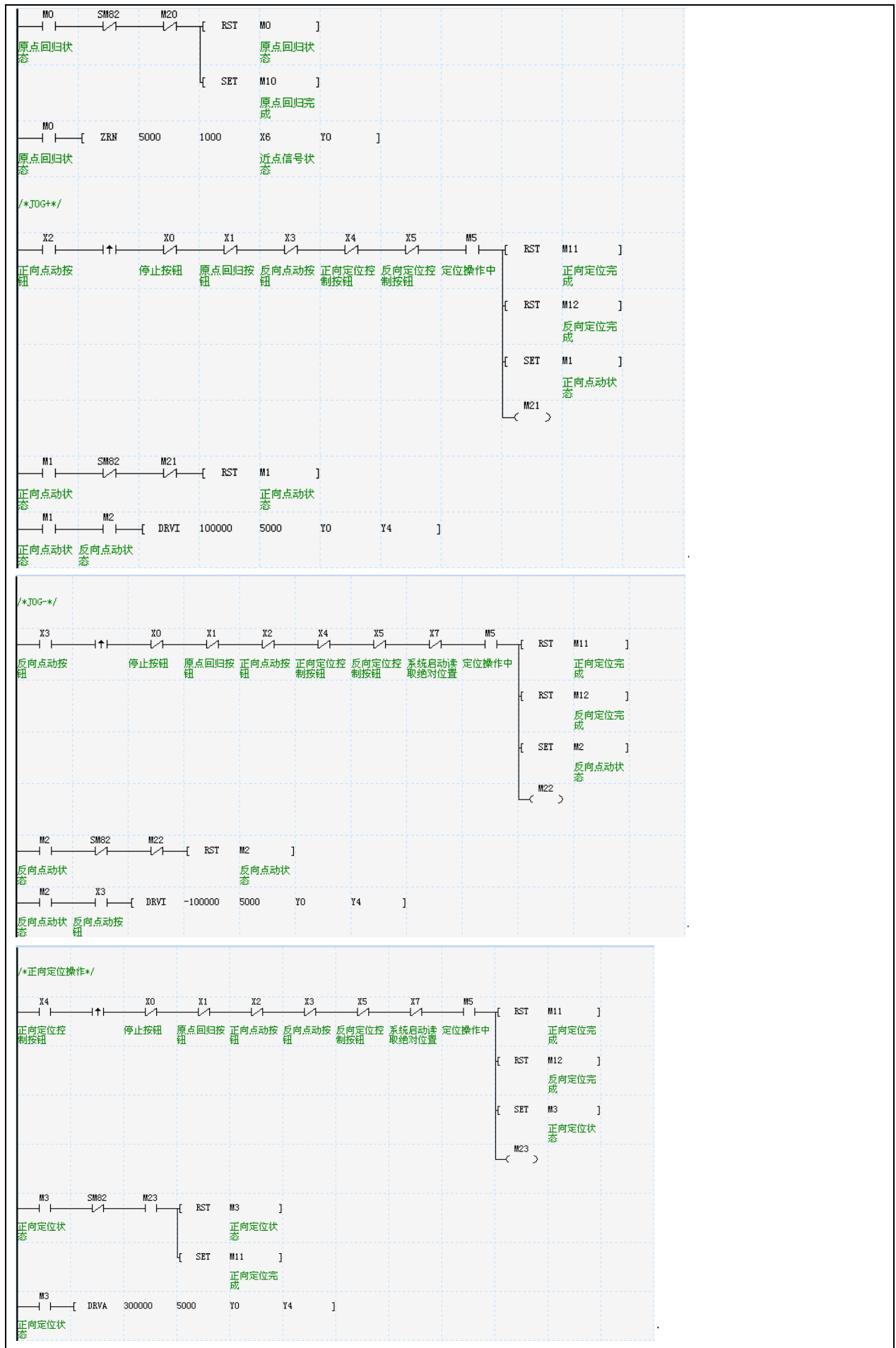
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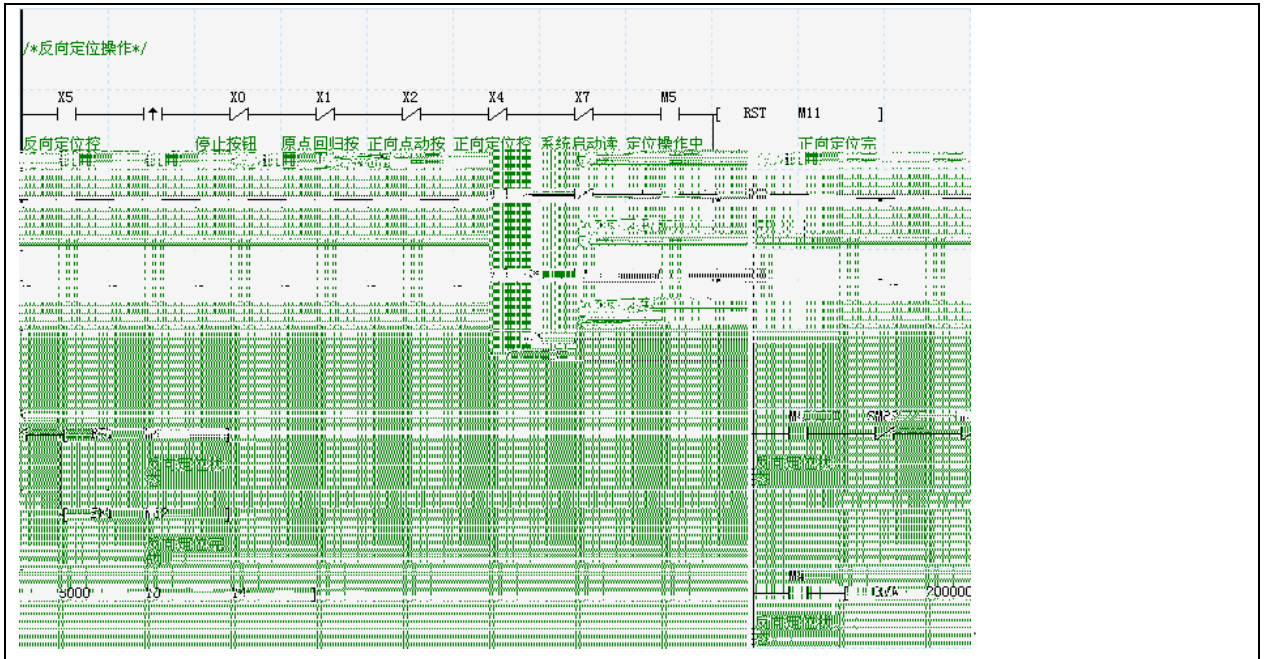


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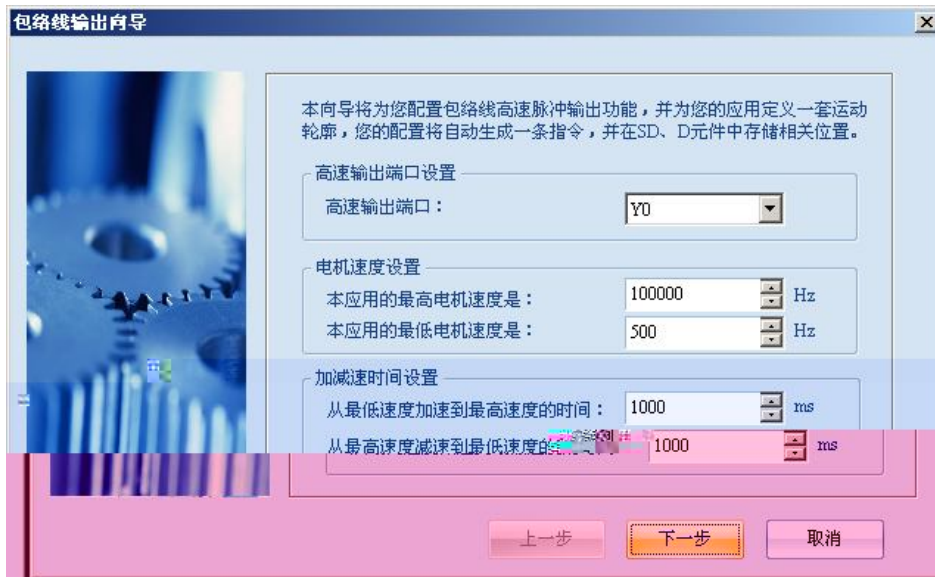
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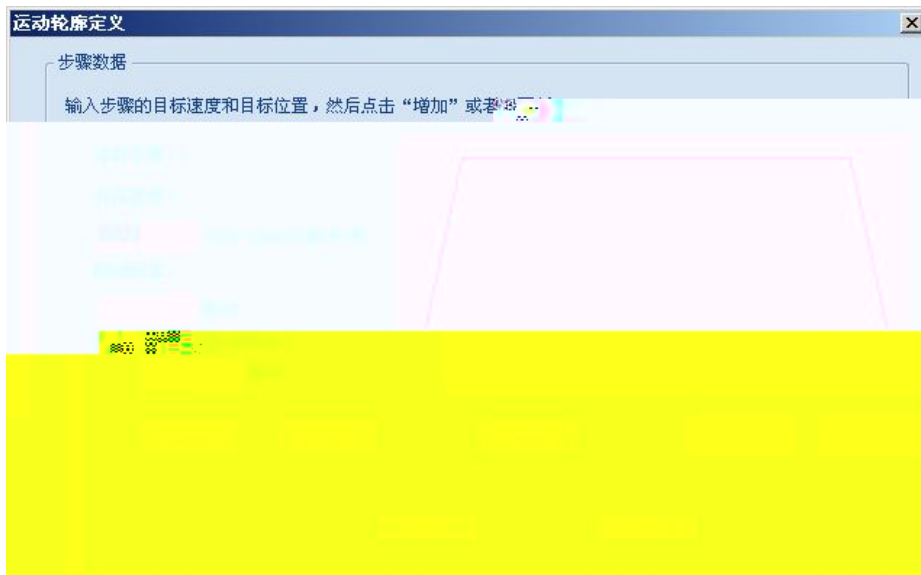
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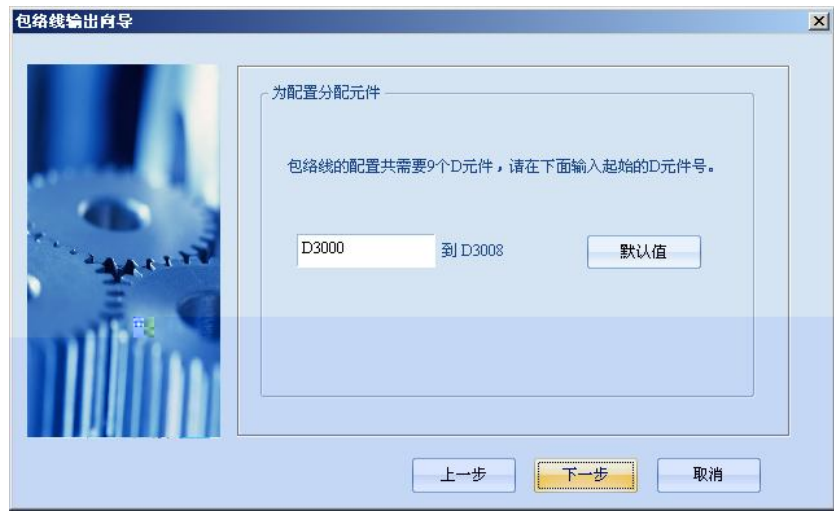
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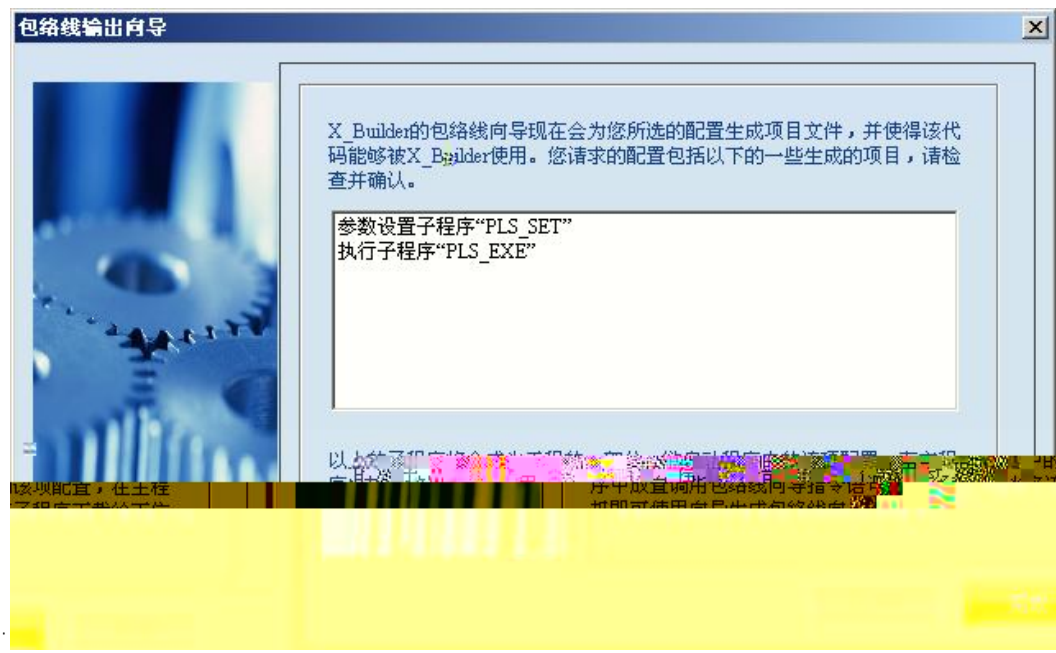


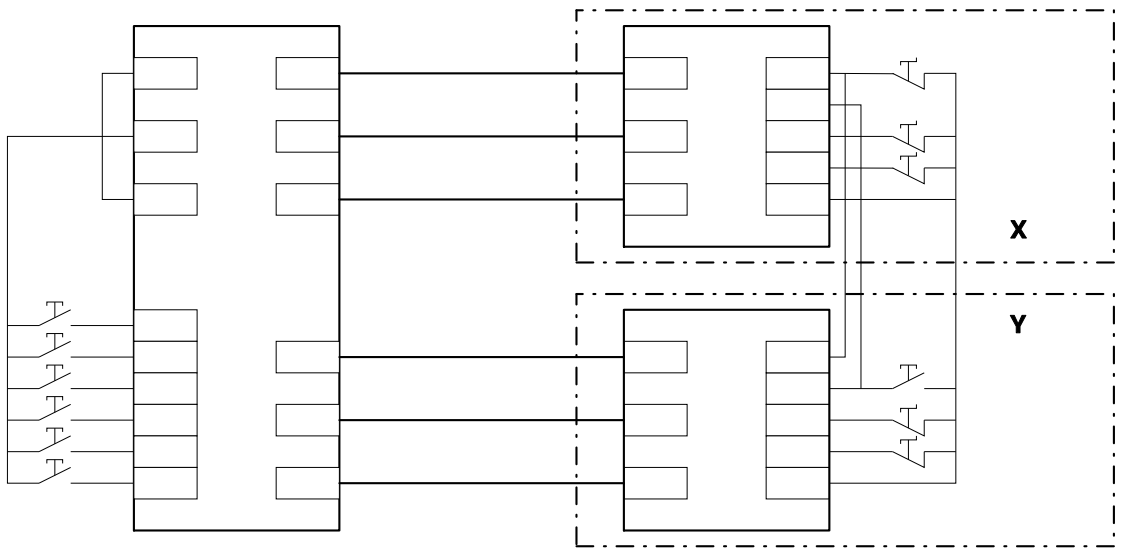
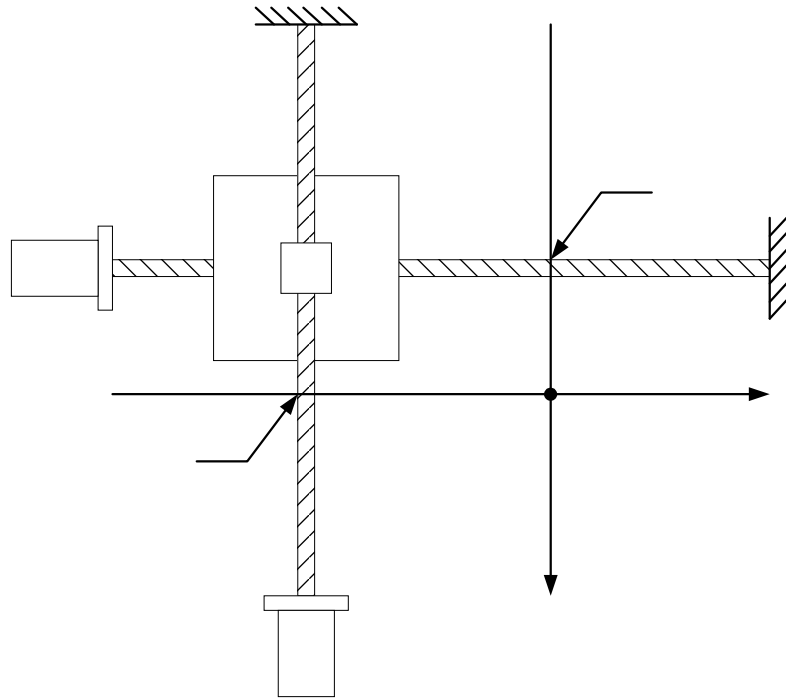
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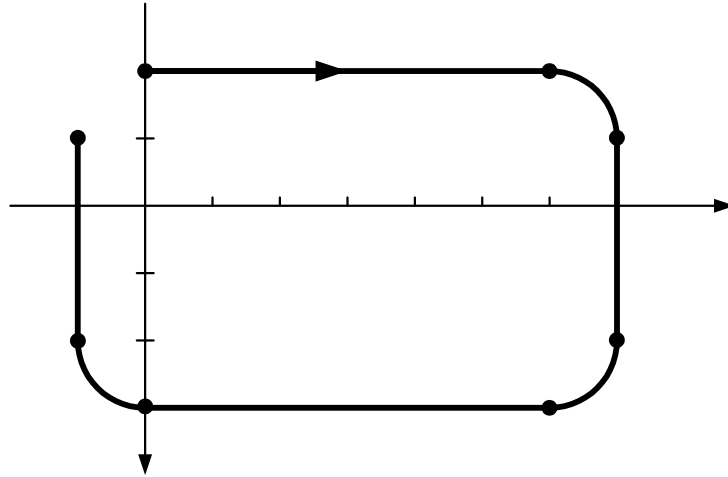


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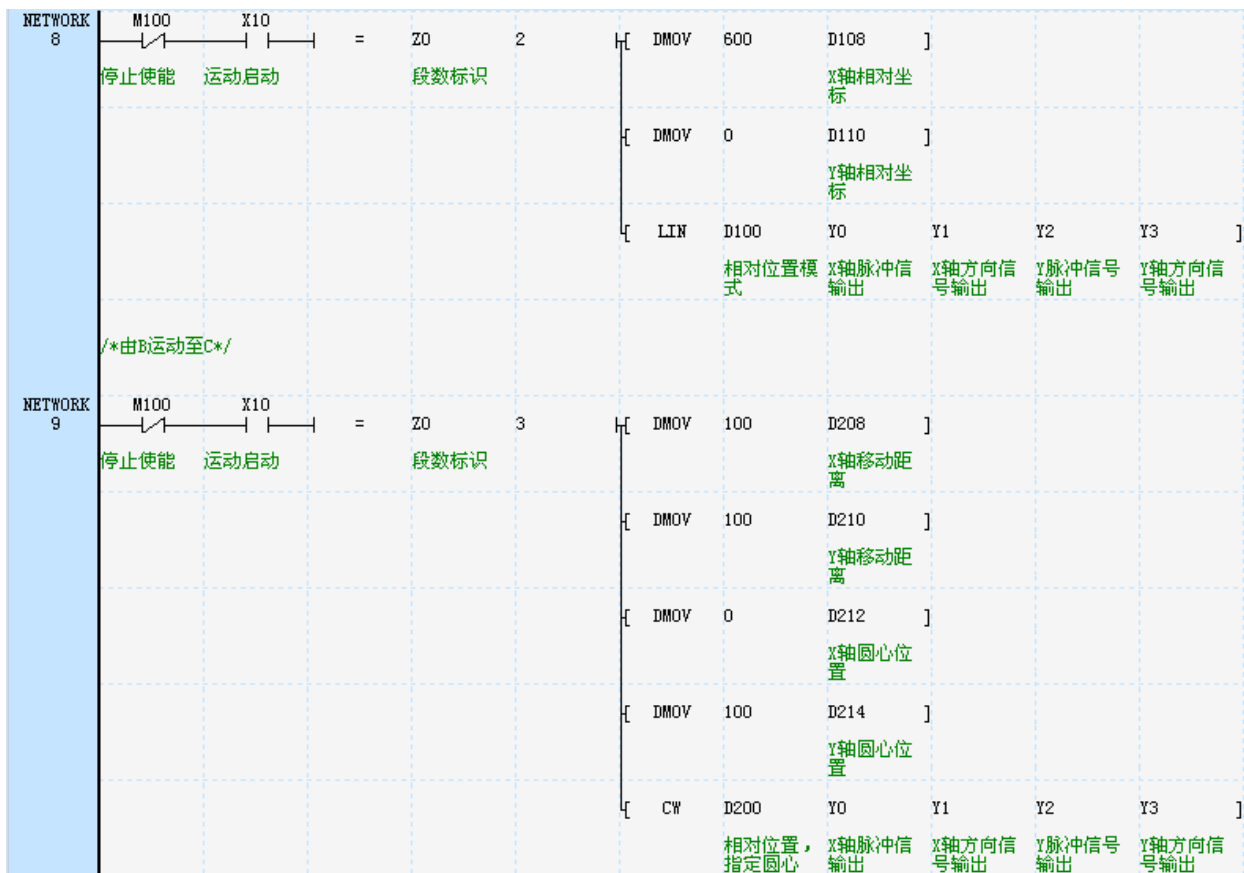
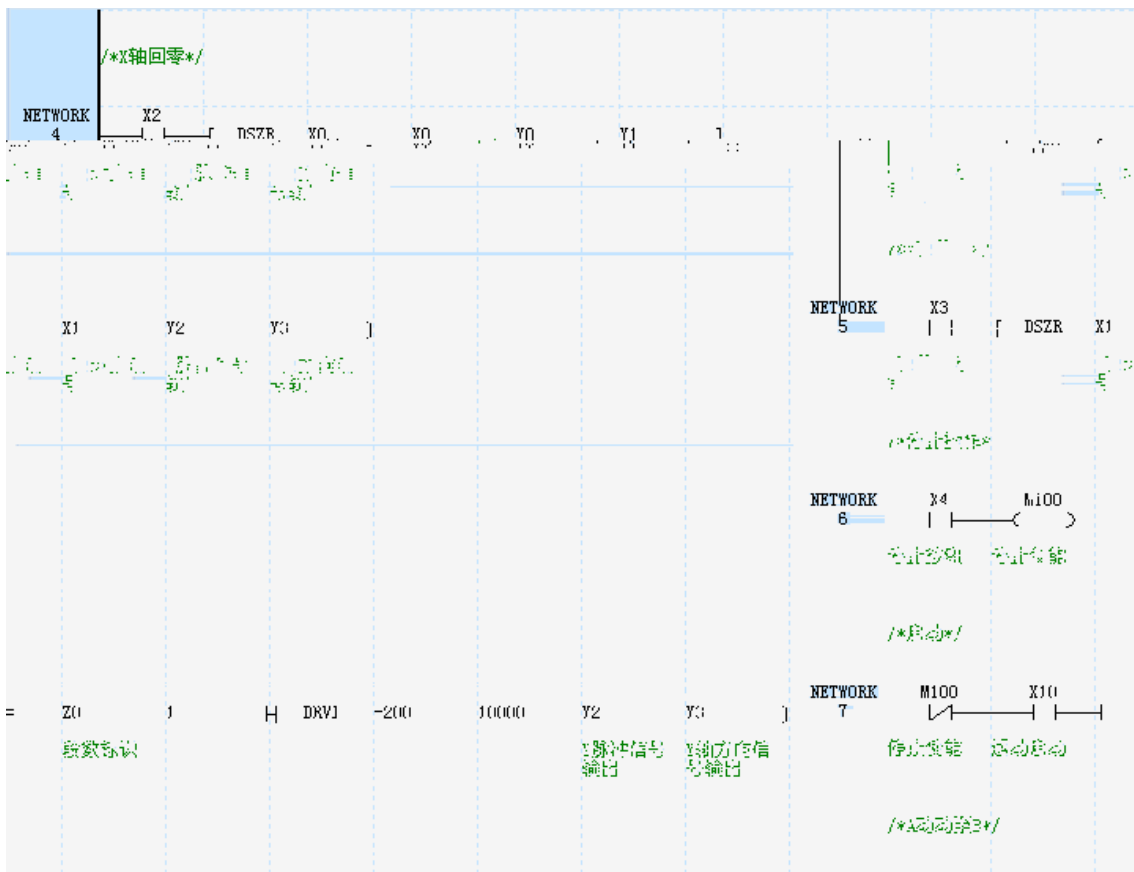
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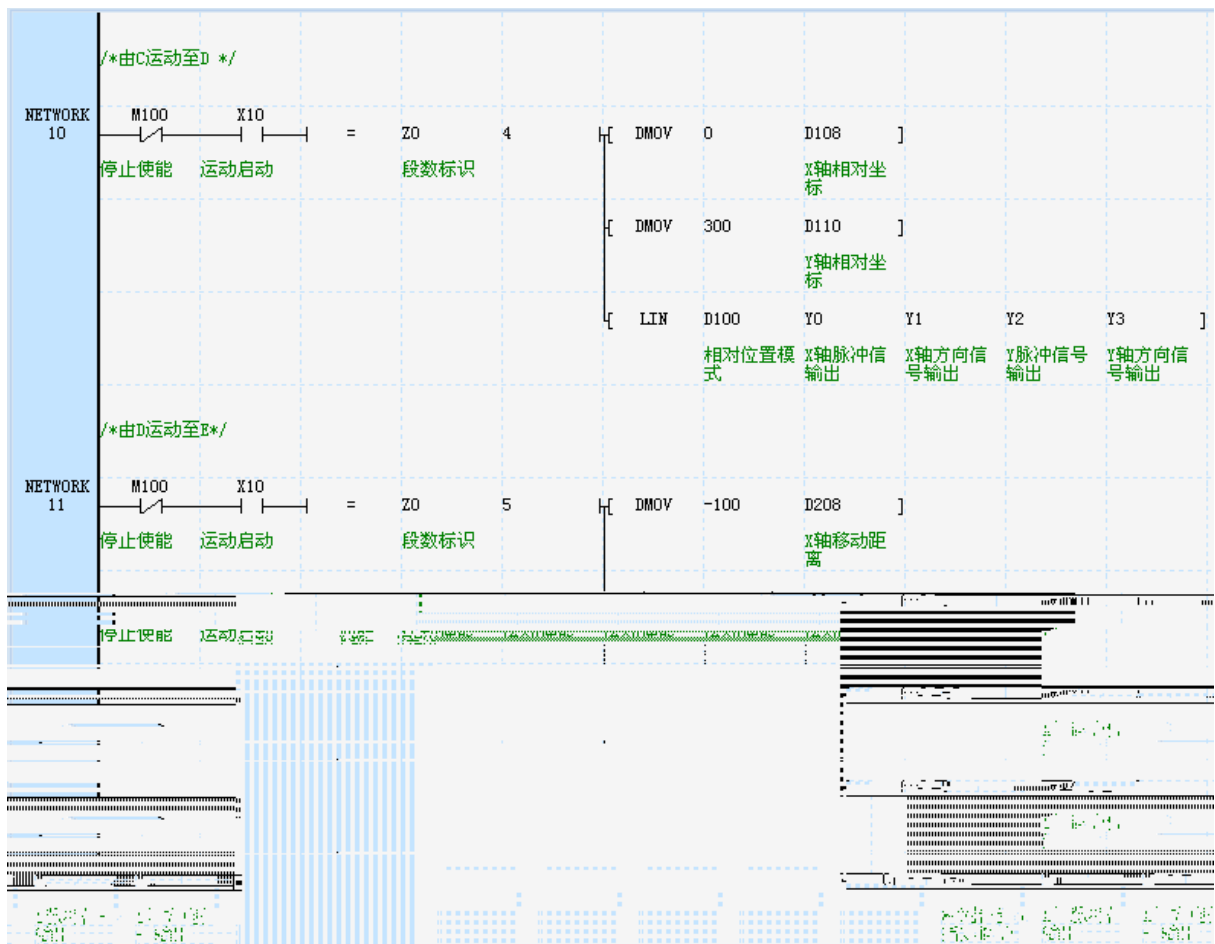


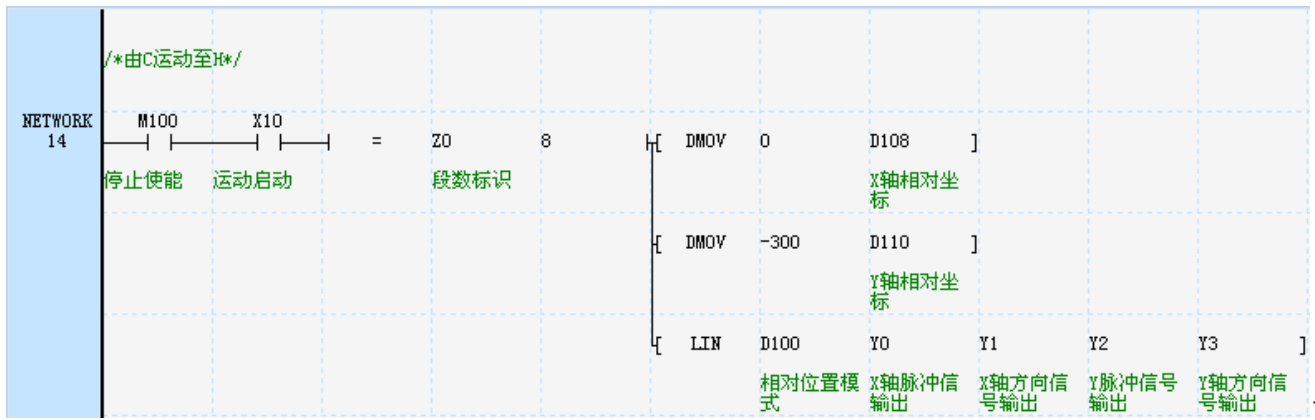
		/*初始化运动控制指令相关软元件*/				
NETWORK 0	SM1	[DMOV	0	D100]	相对位置模式
		[DMOV	10000	D102]	直线插补初始速度
		[	DMOV	10000	D104]	直线插补合成速度
		[	DMOV	100	D106]	直线插补减速时间
		[	DMOV	0	D108]	X轴相对坐标
		[	DMOV	0	D110]	Y轴相对坐标
NETWORK 1	SM1	[	DMOV	0	D200]	相对位置, 指定圆心
		[	DMOV	10000	D202]	圆弧插补保留

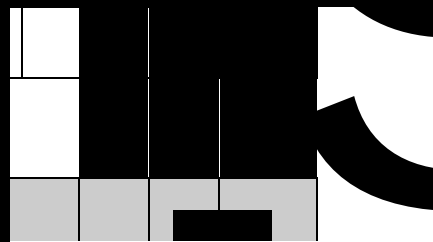
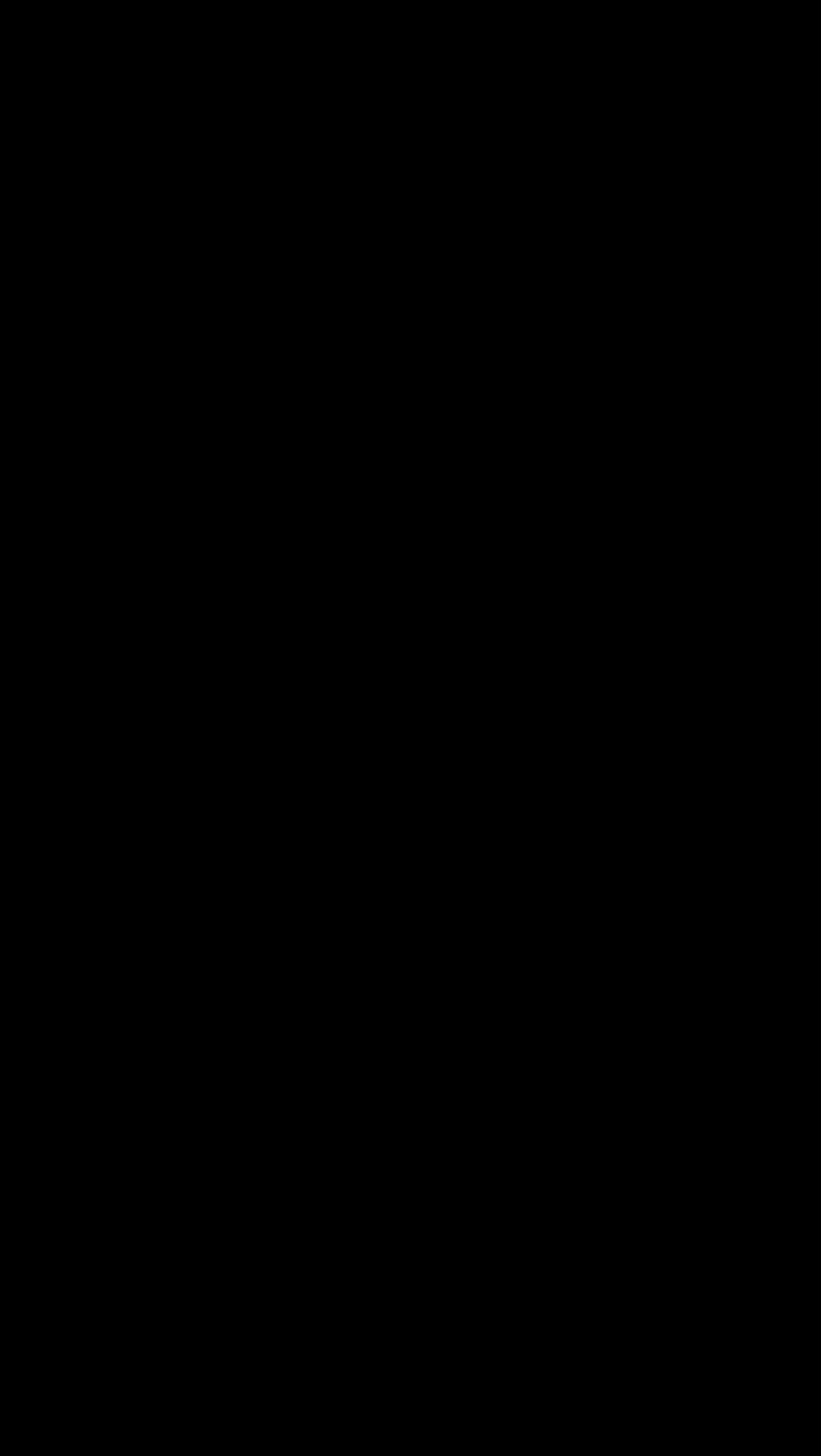
[	DMOV	10000	D204	]	圆弧插补合成速度
[	DMOV	100	D206	]	保留
[	DMOV	0	D208	]	X轴移动距离
[	DMOV	0	D210	]	Y轴移动距离
[	DMOV	0	D212	]	X轴圆心位置
[	DMOV	0	D214	]	Y轴圆心位置
[	MOV	1	Z0	]	段数标识
[	SET	SM72		]	Y2脉冲输出完成中断
[	SET	SM69		]	中断使能控制
[	EI]	

NETWORK 2	SNO	[	DMOV	200000	SD202	]	Y0最高速度
		[	MOV	10	SD204	]	Y0基度速度
		[	MOV	100	SD205	]	Y0加减速时间
		[	MOV	10	SD207	]	Y0爬行速度
		[	DMOV	2000	SD208	]	Y0回归速度
NETWORK 3	SNO	[	DMOV	200000	SD322	]	Y2最高速度
		[MOV	10	SD324]	Y2基度速度
		[MOV	100	SD325]	Y2加减速时间
		[MOV	10	SD327]	Y2爬行速度
		[DMOV	2000	SD328]	Y2回归速度









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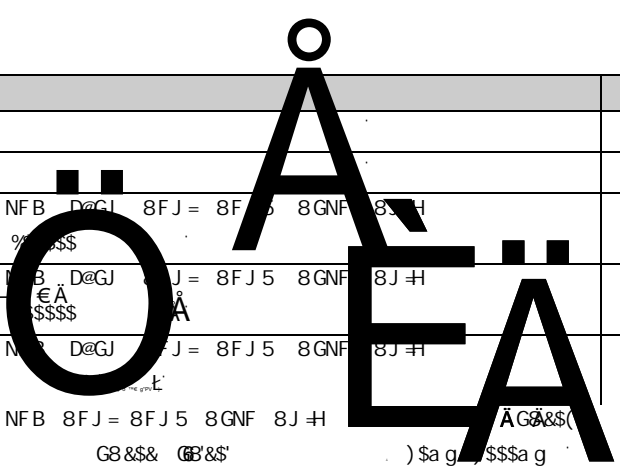


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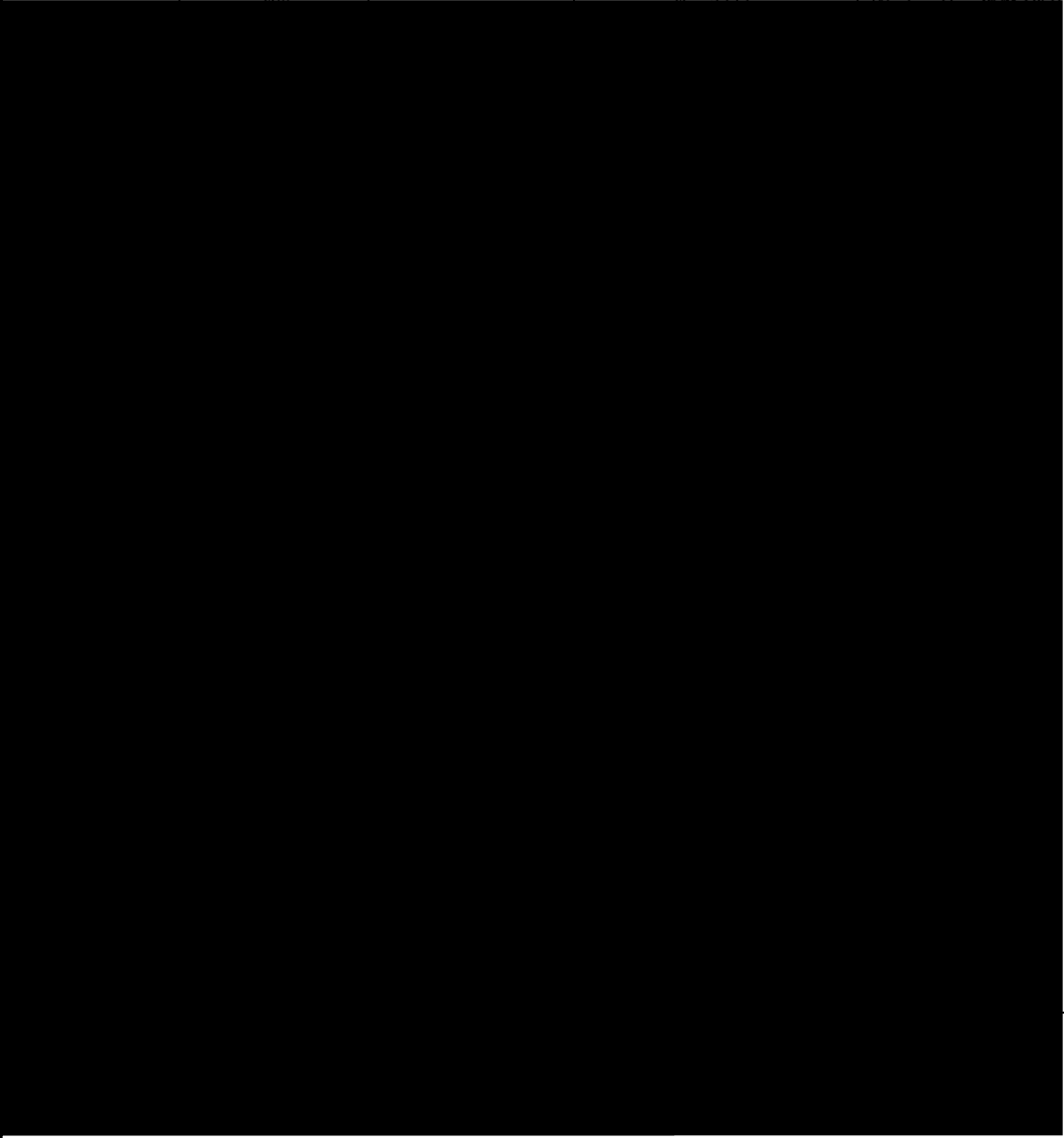
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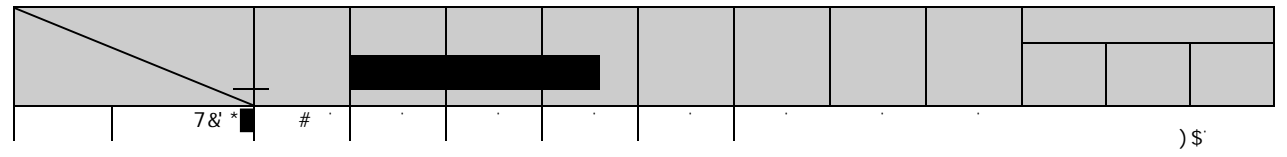
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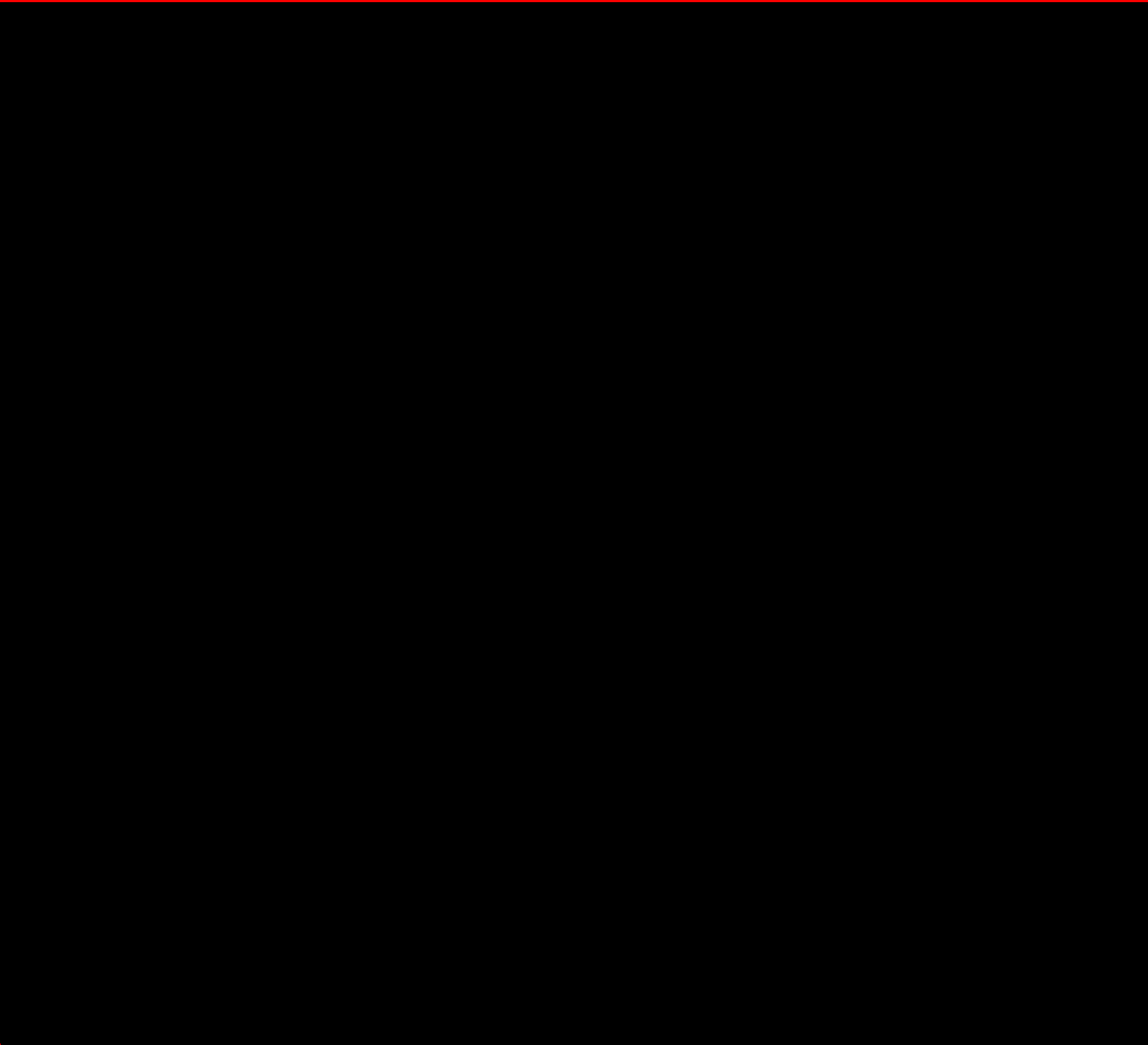
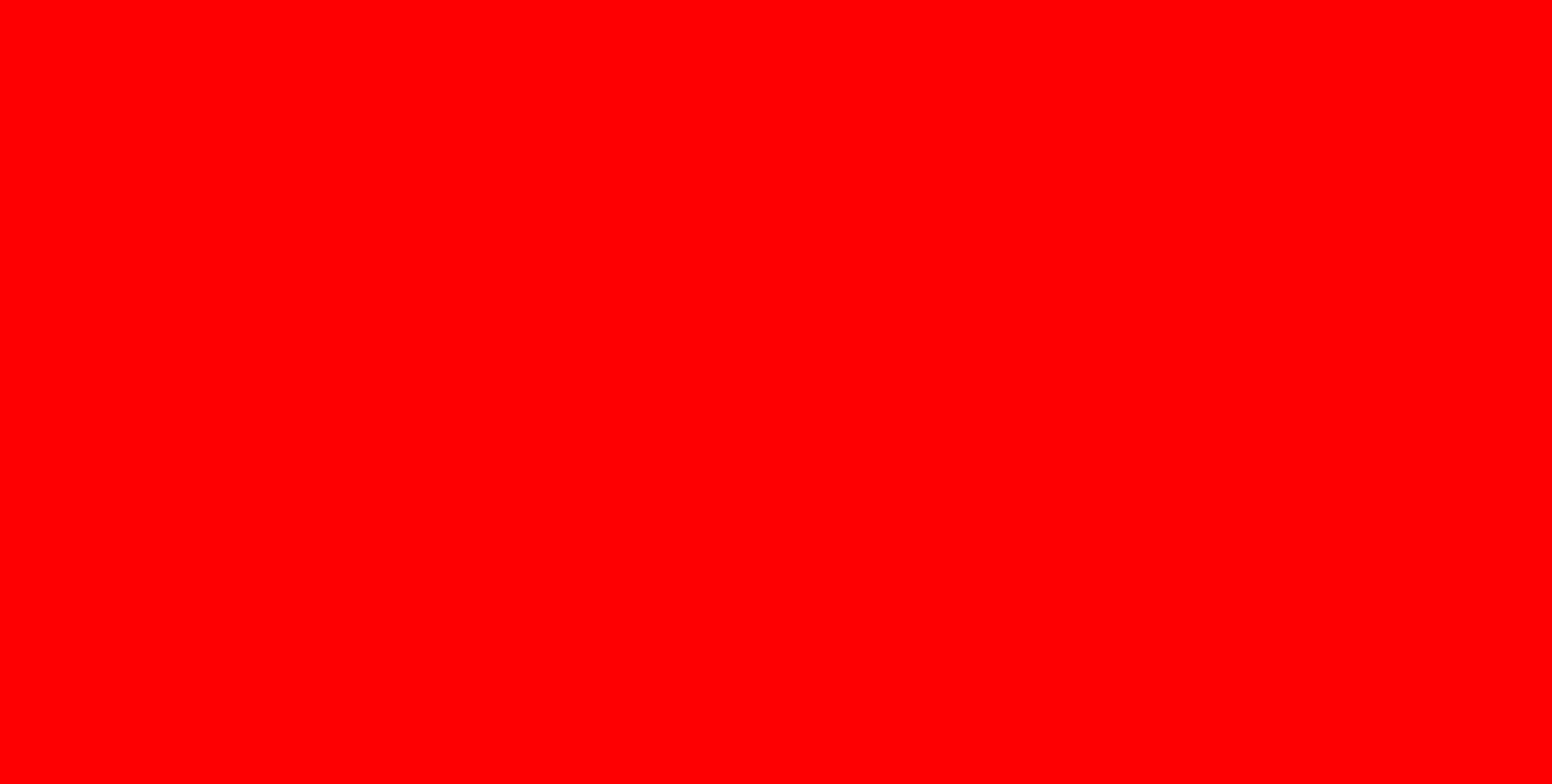
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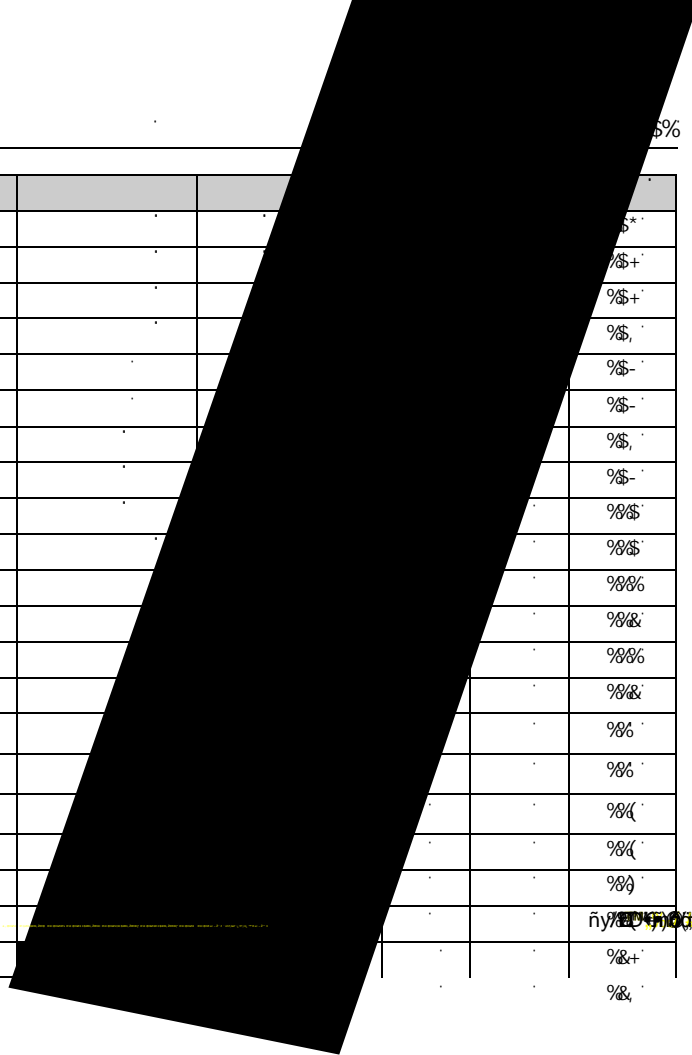
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G-B	G-B	+			%\$
7CG	7CG	+			%\$
H5B	H5B	+			%\$
@B	@B	+			%\$%
9LD	9LD	+			%\$&
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