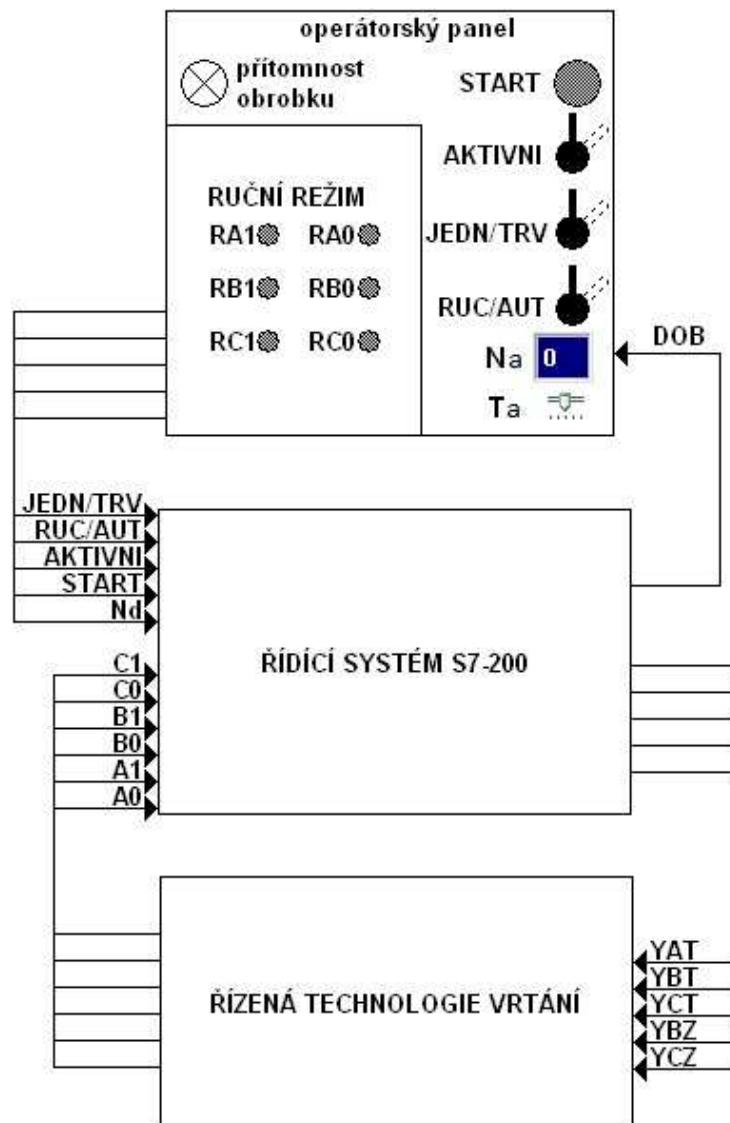


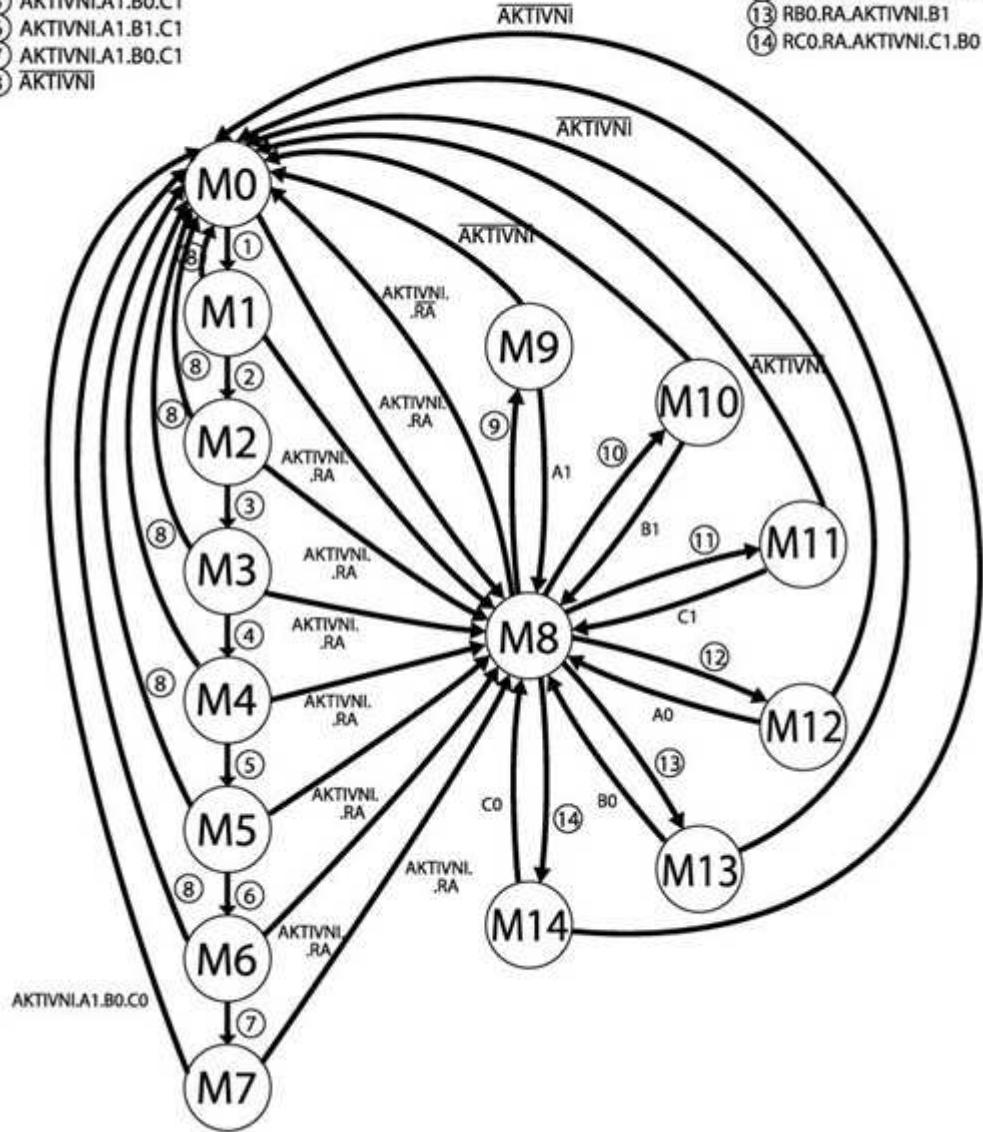
# Přílohy

## Úloha A – Vrtací přípravek

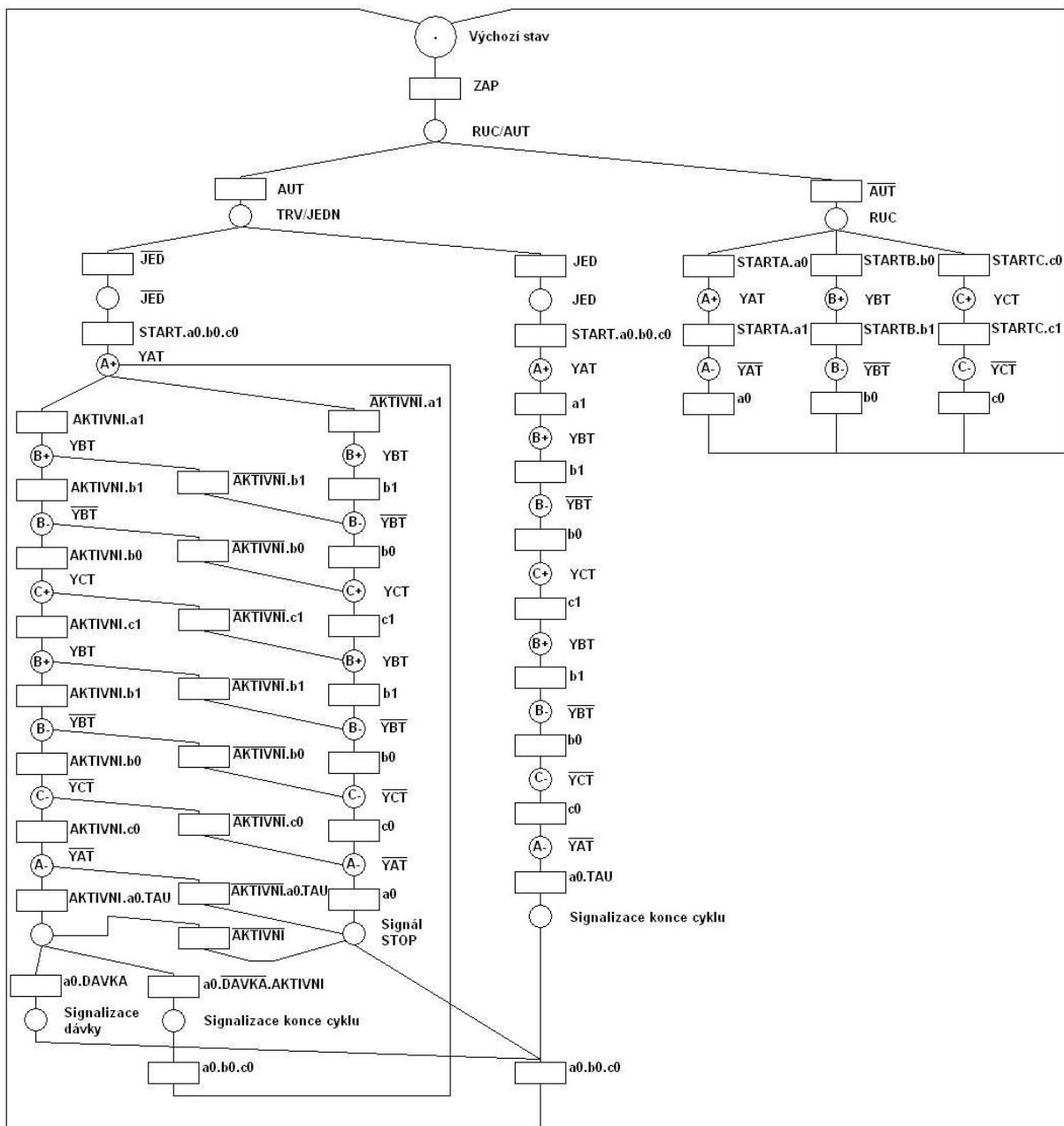


A1 – Blokové schéma řízeného a řídícího systému s operátorským panelem

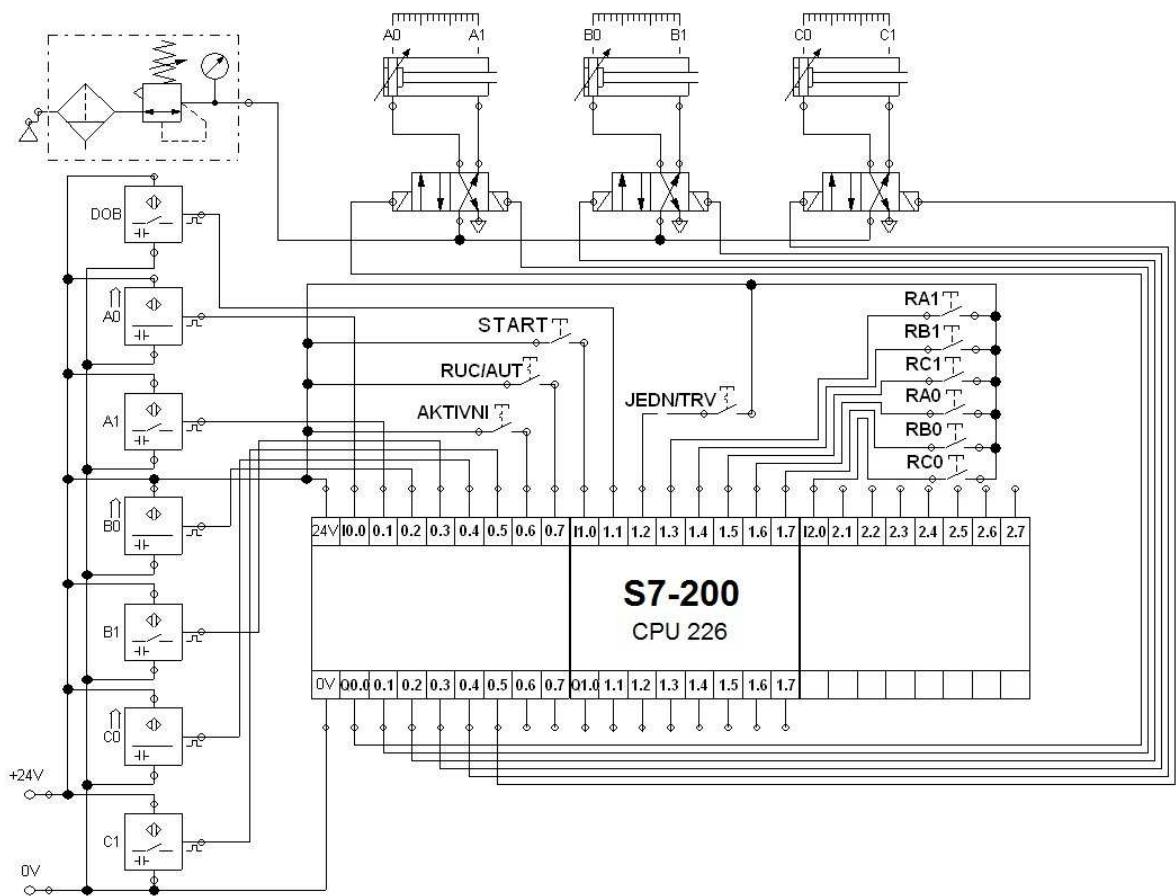
- |   |  |
|---|--|
| ① AKTIVNI.START.TRV.DOB.A0.B0.C0<br>② AKTIVNI.A1.B0.C0<br>③ AKTIVNI.A1.B1.C0<br>④ AKTIVNI.A1.B0.C0<br>⑤ AKTIVNI.A1.B0.C1<br>⑥ AKTIVNI.A1.B1.C1<br>⑦ AKTIVNI.A1.B0.C1<br>⑧ AKTIVNI | ⑨ RA1.RA.AKTIVNI.A0.B0<br>⑩ RB1.RA.AKTIVNI.B0<br>⑪ RC1.RA.AKTIVNI.B0.C0<br>⑫ RA0.RA.AKTIVNI.A1.B0<br>⑬ RB0.RA.AKTIVNI.B1<br>⑭ RC0.RA.AKTIVNI.C1.B0 |
|---|--|



A2 – Stavový diagram



A3 – Petriho síť'



A4 – Schéma zapojení automatu, senzorů a pneumomotorů

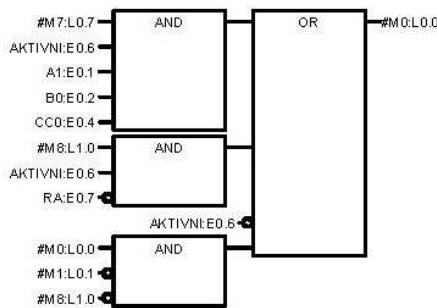
Block: MAIN  
 Author:  
 Created: 07/27/2010 13:00:25  
 Last Modified: 08/05/2010 14:08:05

Symbol	Var Type	Data Type	Comm
L0.0 M0	TEMP	BOOL	
L0.1 M1	TEMP	BOOL	
L0.2 M2	TEMP	BOOL	
L0.3 M3	TEMP	BOOL	
L0.4 M4	TEMP	BOOL	
L0.5 M5	TEMP	BOOL	
L0.6 M6	TEMP	BOOL	
L0.7 M7	TEMP	BOOL	
L1.0 M8	TEMP	BOOL	
L1.1 M9	TEMP	BOOL	
L1.2 M10	TEMP	BOOL	
L1.3 M11	TEMP	BOOL	
L1.4 M12	TEMP	BOOL	
L1.5 M13	TEMP	BOOL	
L1.6 M14	TEMP	BOOL	
L1.7 TRVALE	TEMP	BOOL	
		TEMP	

## PROGRAM COMMENTS

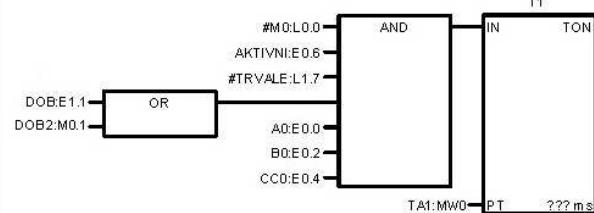
## Network 1 Network Title

## Network Comment



Symbol	Address	Comment
A1	E0.1	
AKTIVNI	E0.6	
B0	E0.2	
C0	E0.4	
RAE	E0.7	

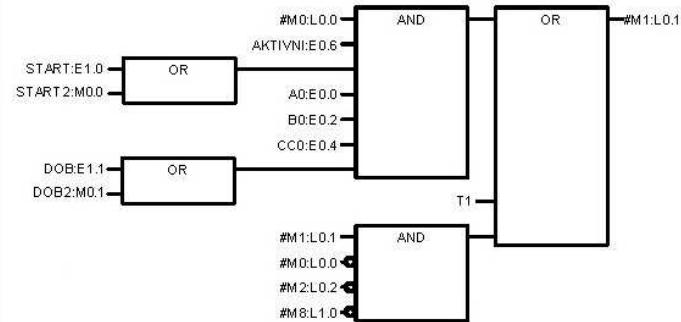
## Network 2



Comment

A0  
 AKTIVNI  
 B0  
 C0  
 DOB  
 DOB2  
 TA

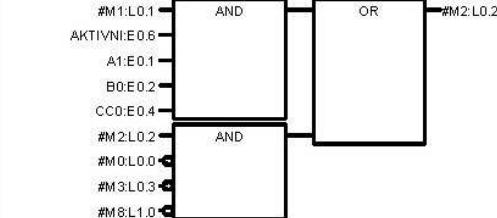
## Network 3



Comment

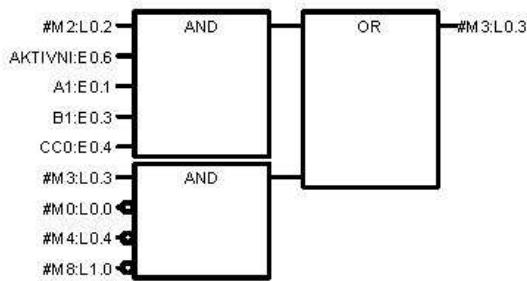
Symbol  
 A0  
 AKTIVNI  
 B0  
 C0  
 DOB  
 DOB2  
 START  
 START2

## Network 4

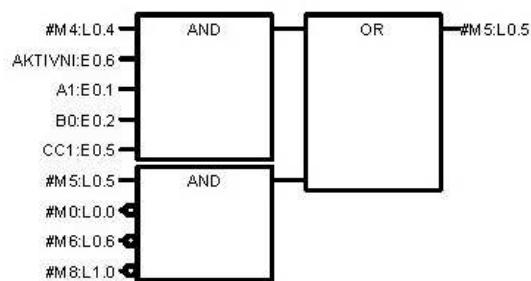


Comment

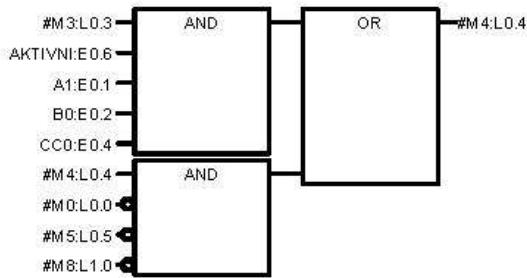
Symbol  
 A1  
 AKTIVNI  
 B0  
 C0

**Network 5**

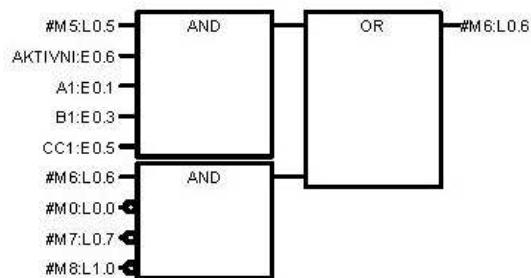
Symbol	Address	Comment
A1	E0.1	
AKTIVNI	E0.6	
B1	E0.3	
CC0	E0.4	

**Network 7**

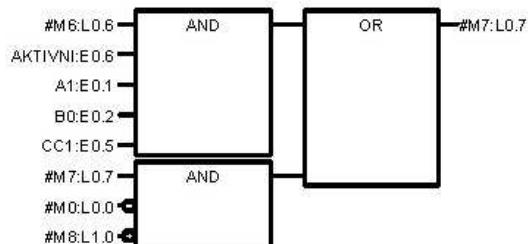
Symbol	Address	Comment
A1	E0.1	
AKTIVNI	E0.6	
B0	E0.2	
CC1	E0.5	

**Network 6**

Symbol	Address	Comment
A1	E0.1	
AKTIVNI	E0.6	
B0	E0.2	
CC0	E0.4	

**Network 8**

Symbol	Address	Comment
A1	E0.1	
AKTIVNI	E0.6	
B1	E0.3	
CC1	E0.5	

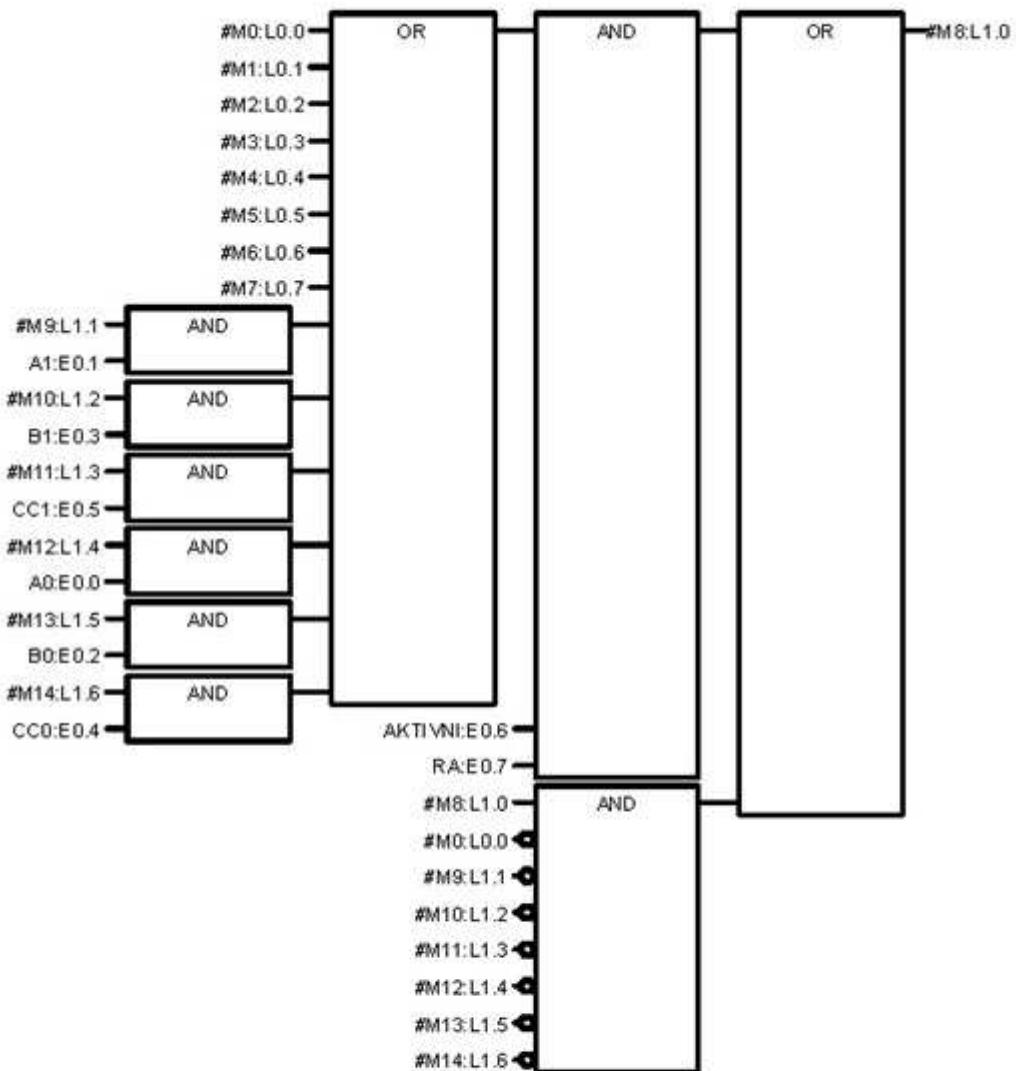
**Network 9**

Symbol	Address	Comment
A1	E0.1	
AKTIVNI	E0.6	
B0	E0.2	
CC1	E0.5	

A5 – Algoritmus v grafickém jazyku FBD v prostředí STEP7 2/5

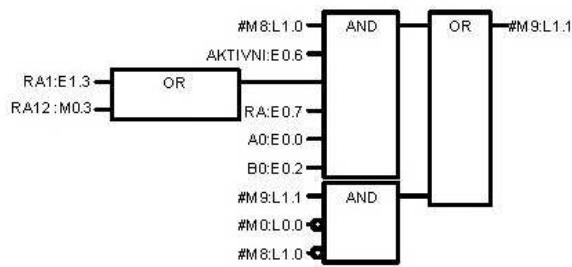
**Network 10** Network Title:

Network Comment:

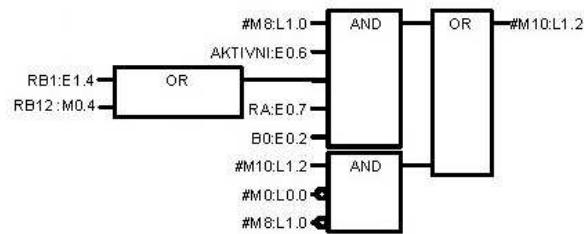


Symbol	Address	Comment
A0	E0.0	
A1	E0.1	
AKTIVNI	E0.6	
B0	E0.2	
B1	E0.3	
CC0	E0.4	
CC1	E0.5	
RA	E0.7	

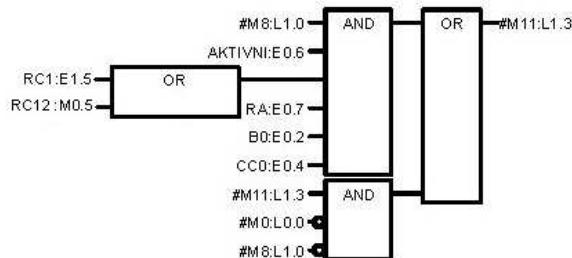
A5 – Algoritmus v grafickém jazyku FBD v prostředí STEP7 3/5

**Network 11**

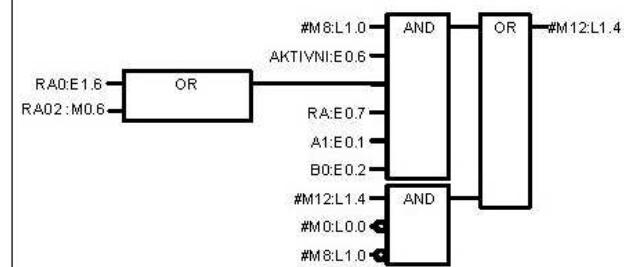
Symbol	Address	Comment
A0	E0.0	
AKTIVNI	E0.6	
B0	E0.2	
RA	E0.7	
RA1	E1.3	
RA12	M0.3	

**Network 12**

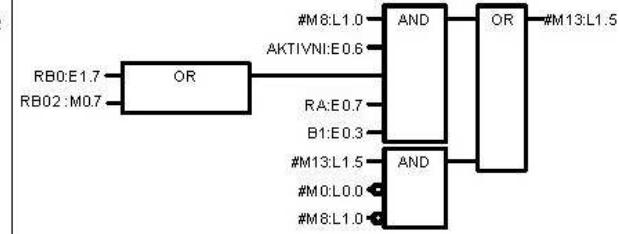
Symbol	Address	Comment
AKTIVNI	E0.6	
B0	E0.2	
RA	E0.7	
RB1	E1.4	
RB12	M0.4	

**Network 13**

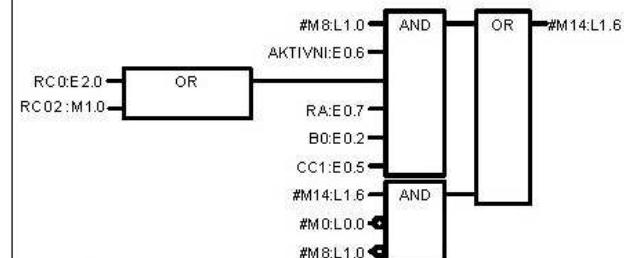
Symbol	Address	Comment
AKTIVNI	E0.6	
B0	E0.2	
CC0	E0.4	
RA	E0.7	
RC1	E1.5	
RC12	M0.5	

**Network 14**

Symbol	Address	Comment
A1	E0.1	
AKTIVNI	E0.6	
B0	E0.2	
RA	E0.7	
RA0	E1.6	
RA02	M0.6	

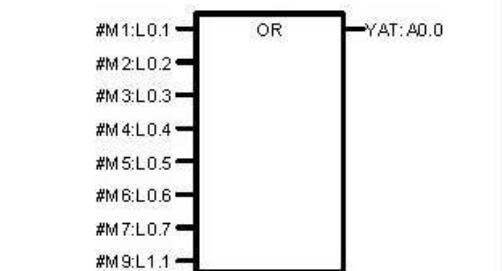
**Network 15**

Symbol	Address	Comment
AKTIVNI	E0.6	
B1	E0.3	
RA	E0.7	
RB0	E1.7	
RB02	M0.7	

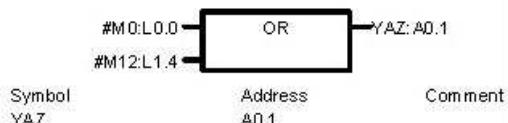
**Network 16**

Symbol	Address	Comment
AKTIVNI	E0.6	
B0	E0.2	
CC1	E0.5	
RA	E0.7	
RC0	E2.0	
RC02	M1.0	

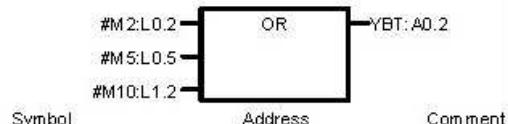
A5 – Algoritmus v grafickém jazyku FBD v prostředí STEP7 4/5

**Network 17**

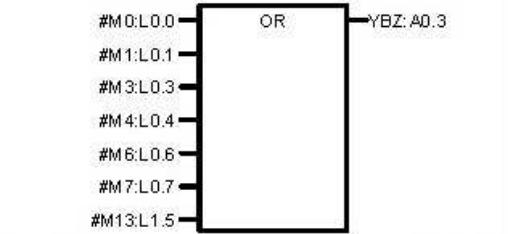
Symbol YAT      Address A0.0      Comment

**Network 18**

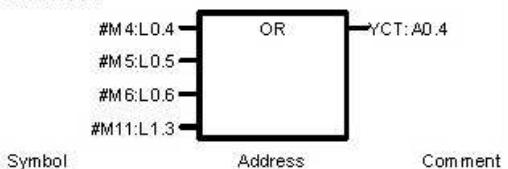
Symbol YAZ      Address A0.1      Comment

**Network 19**

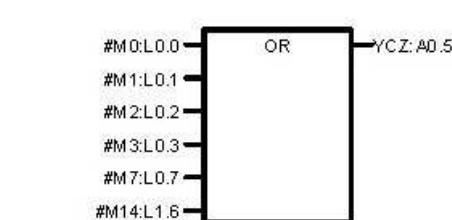
Symbol YBT      Address A0.2      Comment

**Network 20**

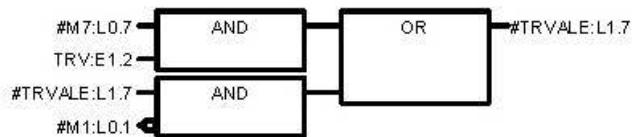
Symbol YBZ      Address A0.3      Comment

**Network 21**

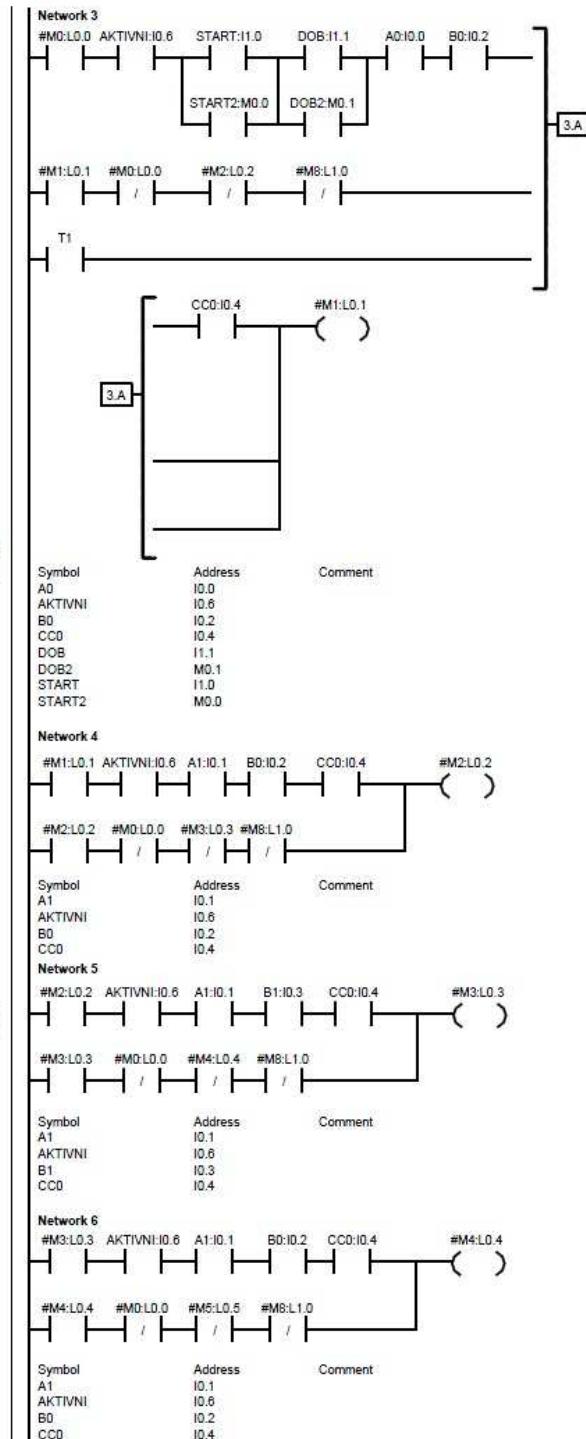
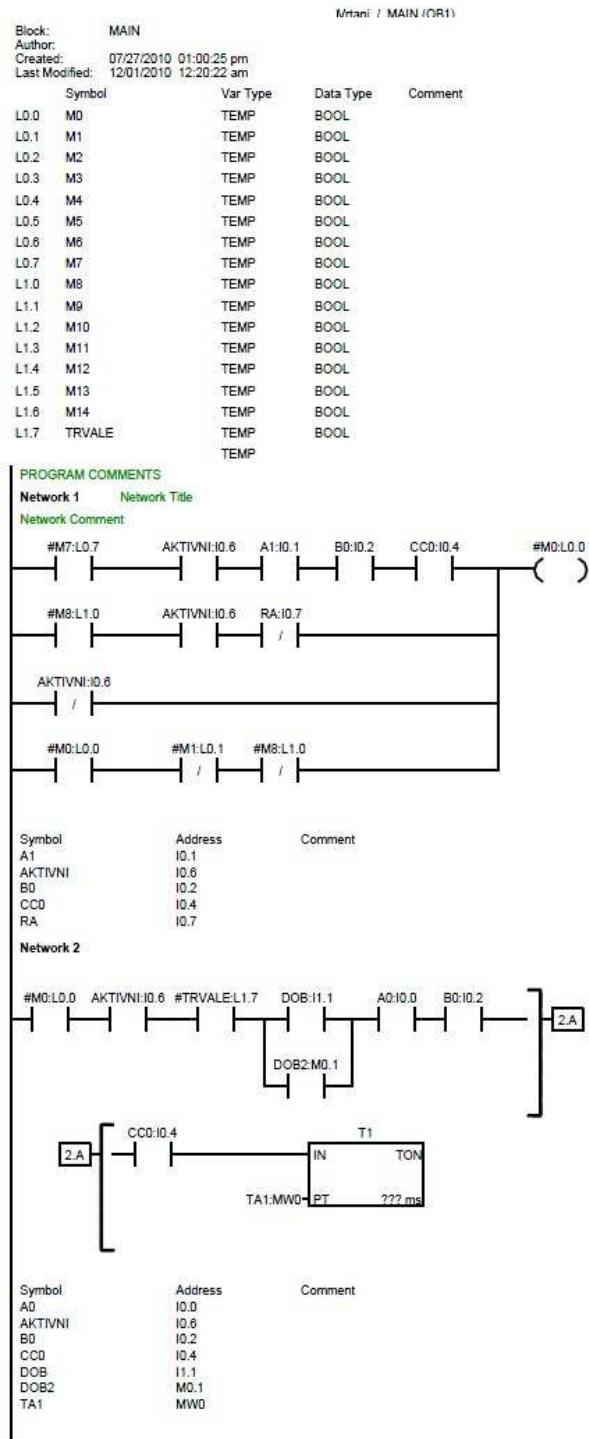
Symbol YCT      Address A0.4      Comment

**Network 22**

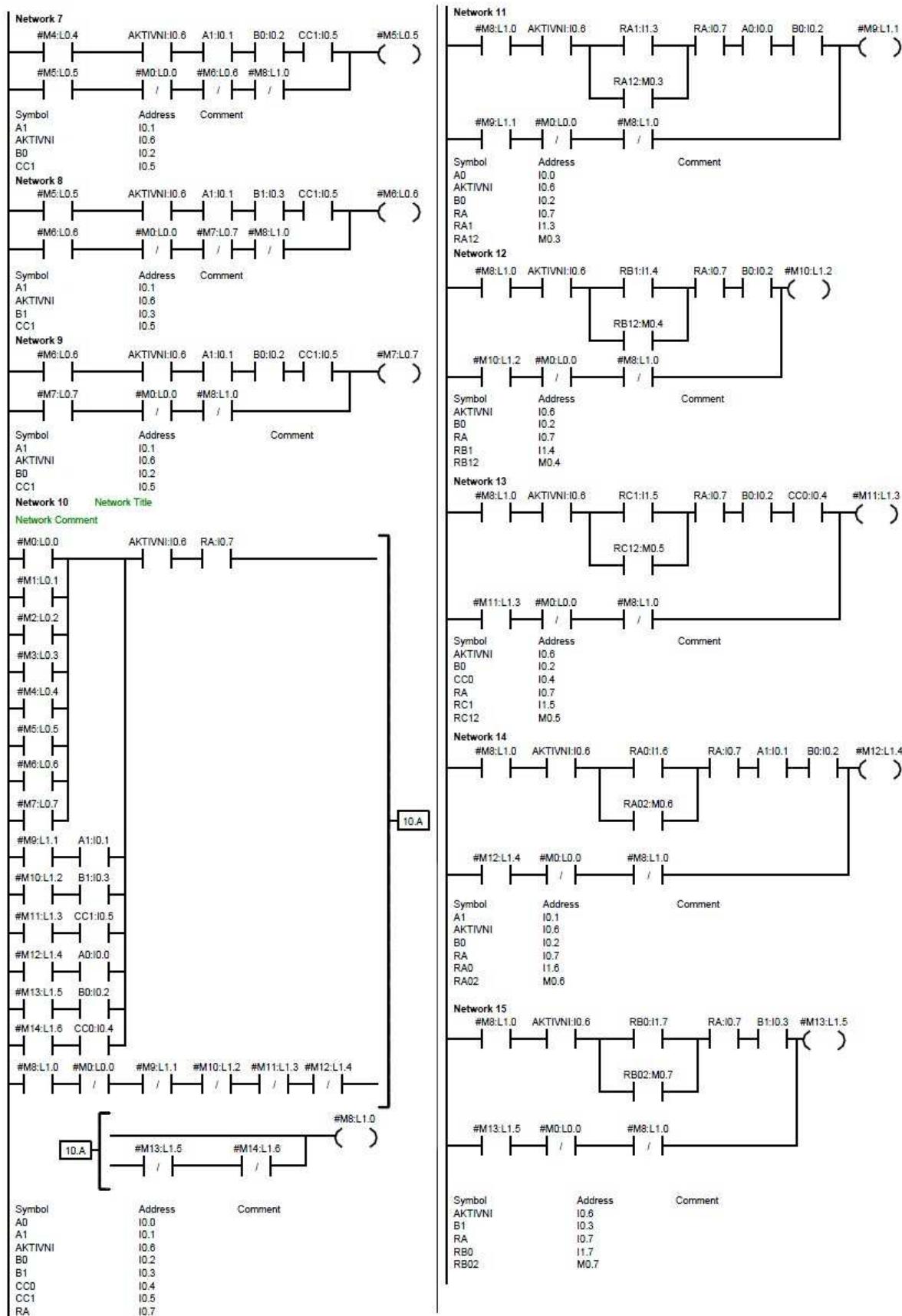
Symbol YCZ      Address A0.5      Comment

**Network 23**

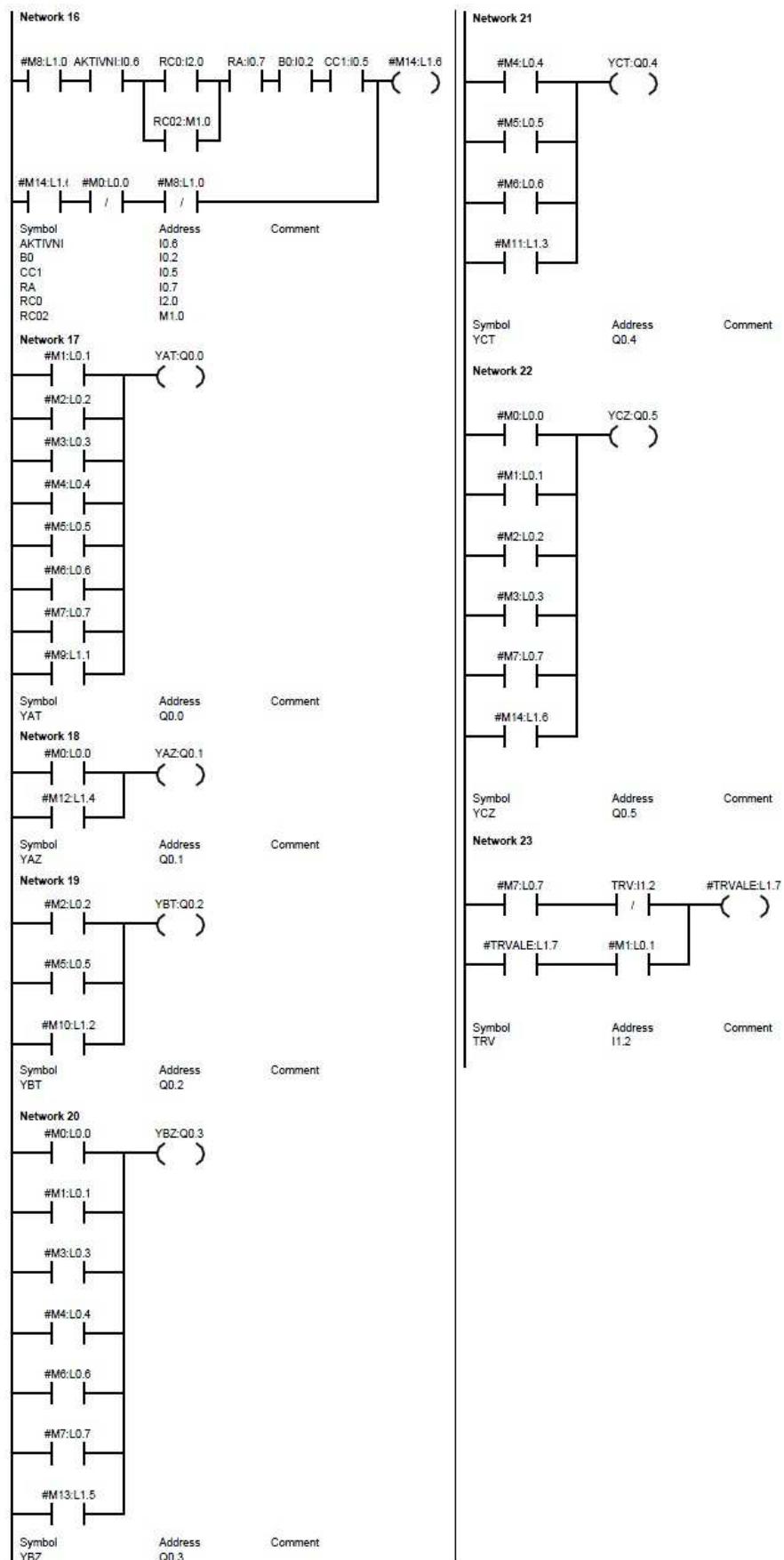
Symbol TRV      Address E1.2      Comment



A6 – Algoritmus v grafickém jazyku LAD v prostředí STEP7 1/3



A5 – Algoritmus v grafickém jazyku LAD v prostředí STEP7 2/3



A5 – Algoritmus v grafickém jazyku LAD v prostředí STEP7 3/3

## A7 - Výpis skriptu z prostředí Reliance

```
rem ****
rem Reliance 4
rem Projekt: Projekt4
rem Uživatel: Stepan
rem Datum: 26.6.2010
rem Čas: 23:20:20
rem ****
```

### Option Explicit

```
Dim aktiv, vPCA, vPA, vPB, vPC, ob_x, start, novy, obP, auto, p10, p11, p20, p21, p30, p31, a0, a1, b0, b1, c0, c1, trv
```

### 'Nacteni promennych

```
vPA = RTag.GetTagValue("System", "Vysunuti_PistuA")
vPB = RTag.GetTagValue("System", "Vysunuti_PistuB")
vPC = RTag.GetTagValue("System", "Vysunuti_PistuC")
vPCA = RTag.GetTagValue("System", "Vysunuti_PistuCA")
p10 = RTag.GetTagValue("OPC1", "YAT")
p11 = RTag.GetTagValue("OPC1", "YAZ")
p20 = RTag.GetTagValue("OPC1", "YBT")
p21 = RTag.GetTagValue("OPC1", "YBZ")
p30 = RTag.GetTagValue("OPC1", "YCT")
p31 = RTag.GetTagValue("OPC1", "YCZ")
a0 = RTag.GetTagValue("System", "PAD")
a1 = RTag.GetTagValue("System", "PAH")
b0 = RTag.GetTagValue("System", "PBD")
b1 = RTag.GetTagValue("System", "PBH")
c0 = RTag.GetTagValue("System", "PCD")
c1 = RTag.GetTagValue("System", "PCH")
ob_x = RTag.GetTagValue("System", "Obrobek_x")
start = RTag.GetTagValue("System", "Start")
novy = RTag.GetTagValue("System", "Novy_obrobek")
obP = RTag.GetTagValue("System", "Obrobek_pripraven")
auto = RTag.GetTagValue("System", "Auto")
aktiv = RTag.GetTagValue("System", "Aktivni")
trv = RTag.GetTagValue("OPC1", "TRV")
```

```
vPC=vPC*(-1)
```

```
if trv=true then
  novy=true
end if
```

```
if novy=true and vPCA=0 then
  ob_x=0
end if
```

```
if (ob_x=0) then obP=true else obP=false end if
```

```
'posuny motoru a obrobku
if (p10=true) then
if vpa<150 then
vpa=vpa+10
ob_x=ob_x+10
end if
if vpa=150 then
p10=false
end if
end if
```

```
if (p11=true) then
if trv=false then
novy=false
end if
if vpa>0 then
vpa=vpa-10
ob_x=10000
end if
if vpc=0 then
p11=false
end if
end if
```

```
if (p20=true) then
if vpb<70 then
vpb=vpb+10
end if
if vpb=70 then
p21=true
end if
end if
```

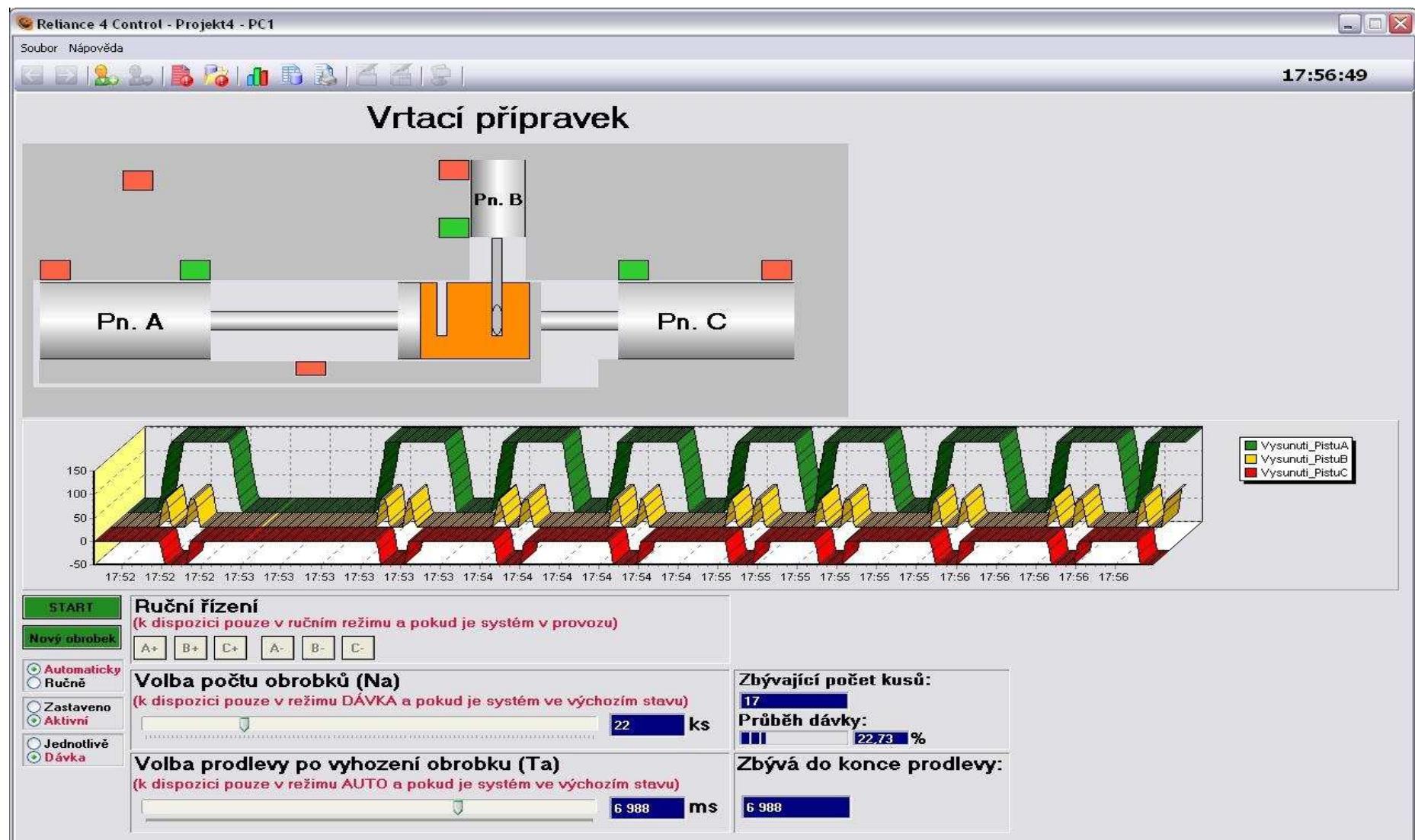
```
if (p21=true) then
if vpb>0 then
vpb=vpb-10
end if
if vpb=0 then
p21=false
end if
end if
```

```
if (p30=true) then
if vpc<50 then
vpc=vpc+10
ob_x=ob_x-10
end if
if vpc=50 then
p30=false
end if
```

```
end if  
end if  
  
if (p31=true) then  
if vpc>0 then  
vpc=vpc-10  
ob_x=ob_x+10  
else  
p31=false  
end if  
end if
```

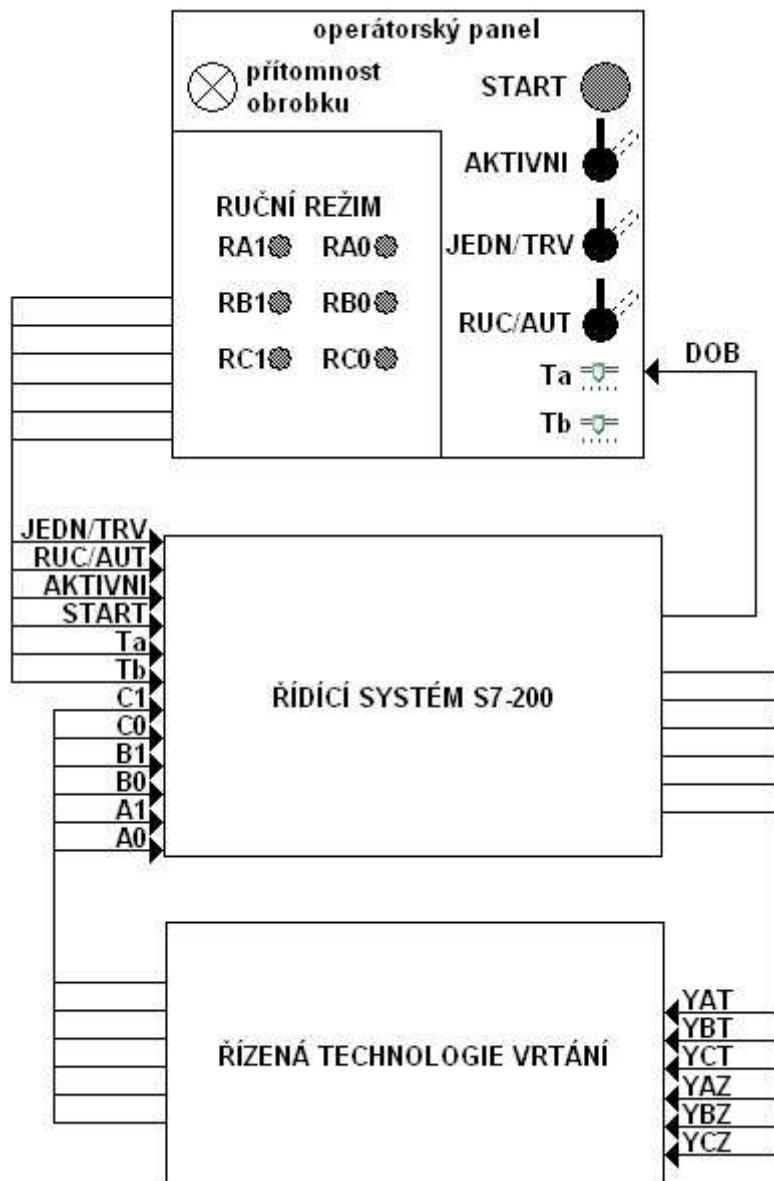
```
'Ulozeni promennych  
vpc=vpc*(-1)  
vpca=vpa+vpc
```

```
RTag.SetTagValue "System", "Vysunuti_PistuA" , vpa  
RTag.SetTagValue "System", "Vysunuti_PistuB" , vpb  
RTag.SetTagValue "System", "Vysunuti_PistuC" , vpc  
RTag.SetTagValue "System", "Vysunuti_PistuCA" , vpca  
RTag.SetTagValue "System", "Obrobek_x" , ob_x  
RTag.SetTagValue "OPC1", "START" , start  
RTag.SetTagValue "System", "Start" , start  
RTag.SetTagValue "System", "Novy_obrobek" , novy  
RTag.SetTagValue "System", "Obrobek_pripraven" , obp  
RTag.SetTagValue "OPC1", "RA" , auto  
RTag.SetTagValue "OPC1", "DOB" , obp  
RTag.SetTagValue "OPC1", "AKTIVNI" , aktiv  
RTag.SetTagValue "OPC1", "A0" , a0  
RTag.SetTagValue "OPC1", "A1" , a1  
RTag.SetTagValue "OPC1", "B0" , b0  
RTag.SetTagValue "OPC1", "B1" , b1  
RTag.SetTagValue "OPC1", "C0" , c0  
RTag.SetTagValue "OPC1", "C1" , c1
```



A8 – Vizualizační okno úlohy Vrtání v runtime režimu

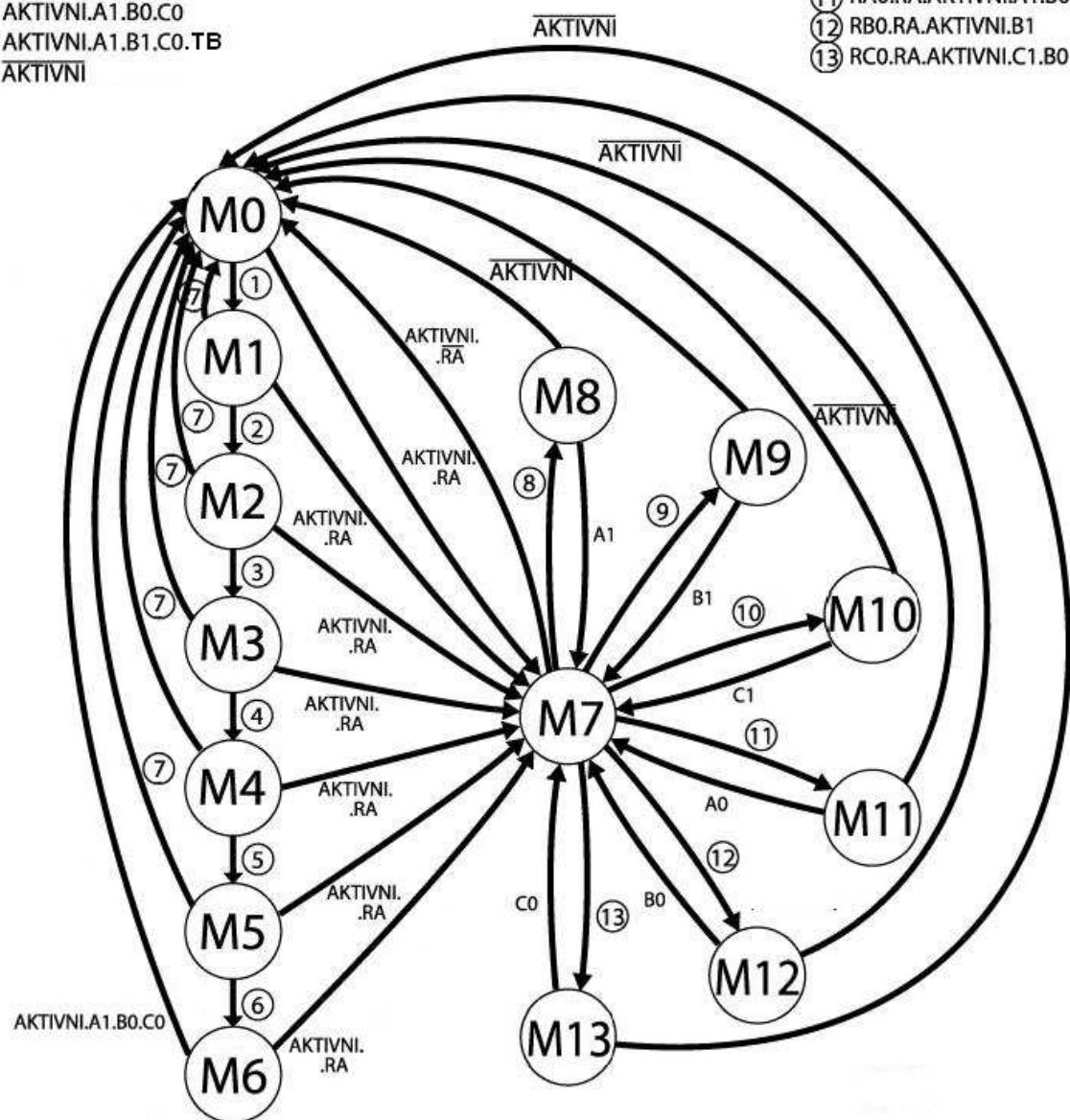
## Úloha B – Přípravek pro opískování



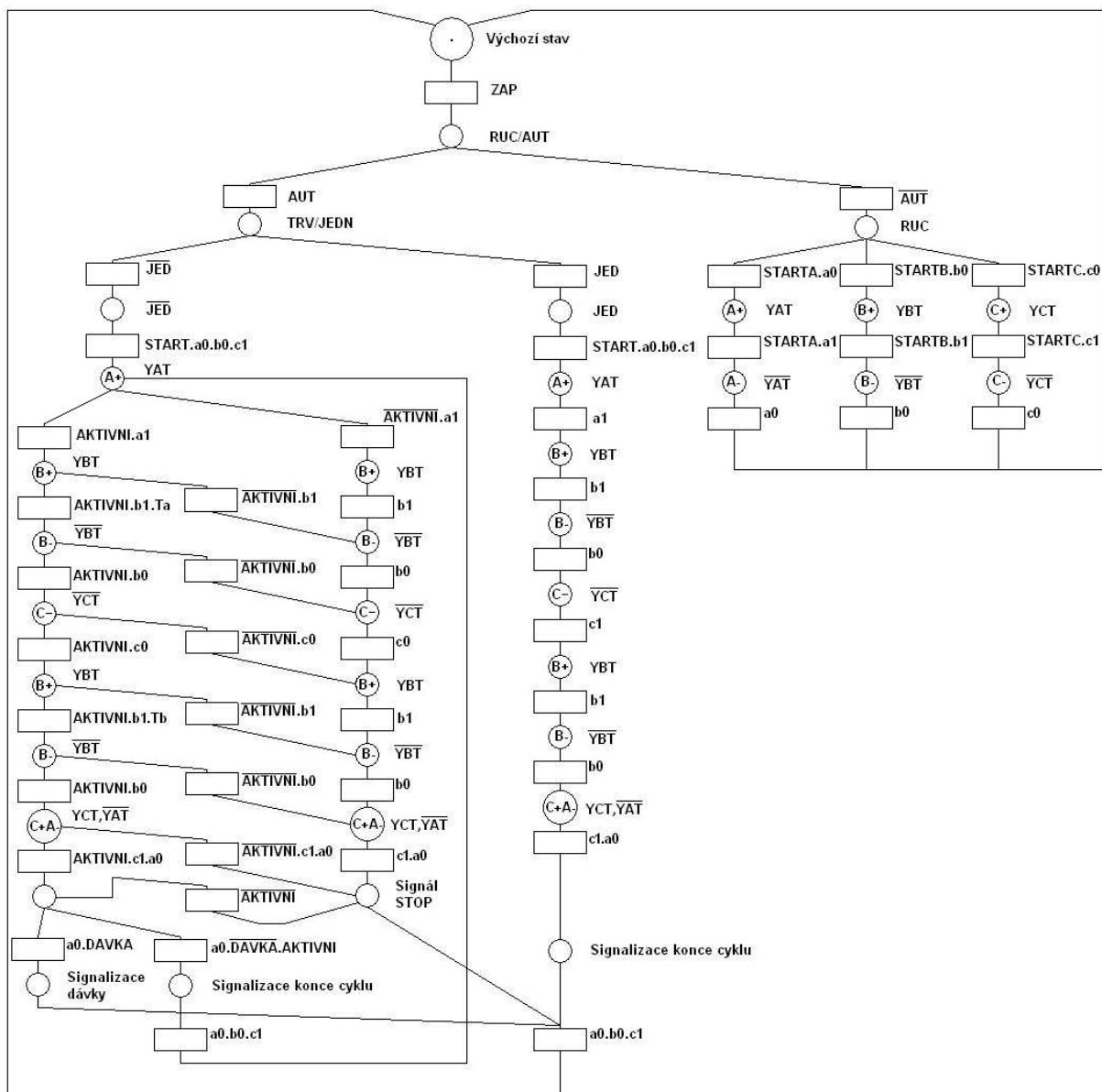
B1 - Blokové schéma řízeného a řídicího systému

- (1) AKTIVNI.START.TRV.DOB.A0.B0.C1
- (2) AKTIVNI.A1.B0.C1
- (3) AKTIVNI.A1.B1.C1.TA
- (4) AKTIVNI.A1.B0.C1
- (5) AKTIVNI.A1.B0.C0
- (6) AKTIVNI.A1.B1.C0.TB
- (7) AKTIVNI

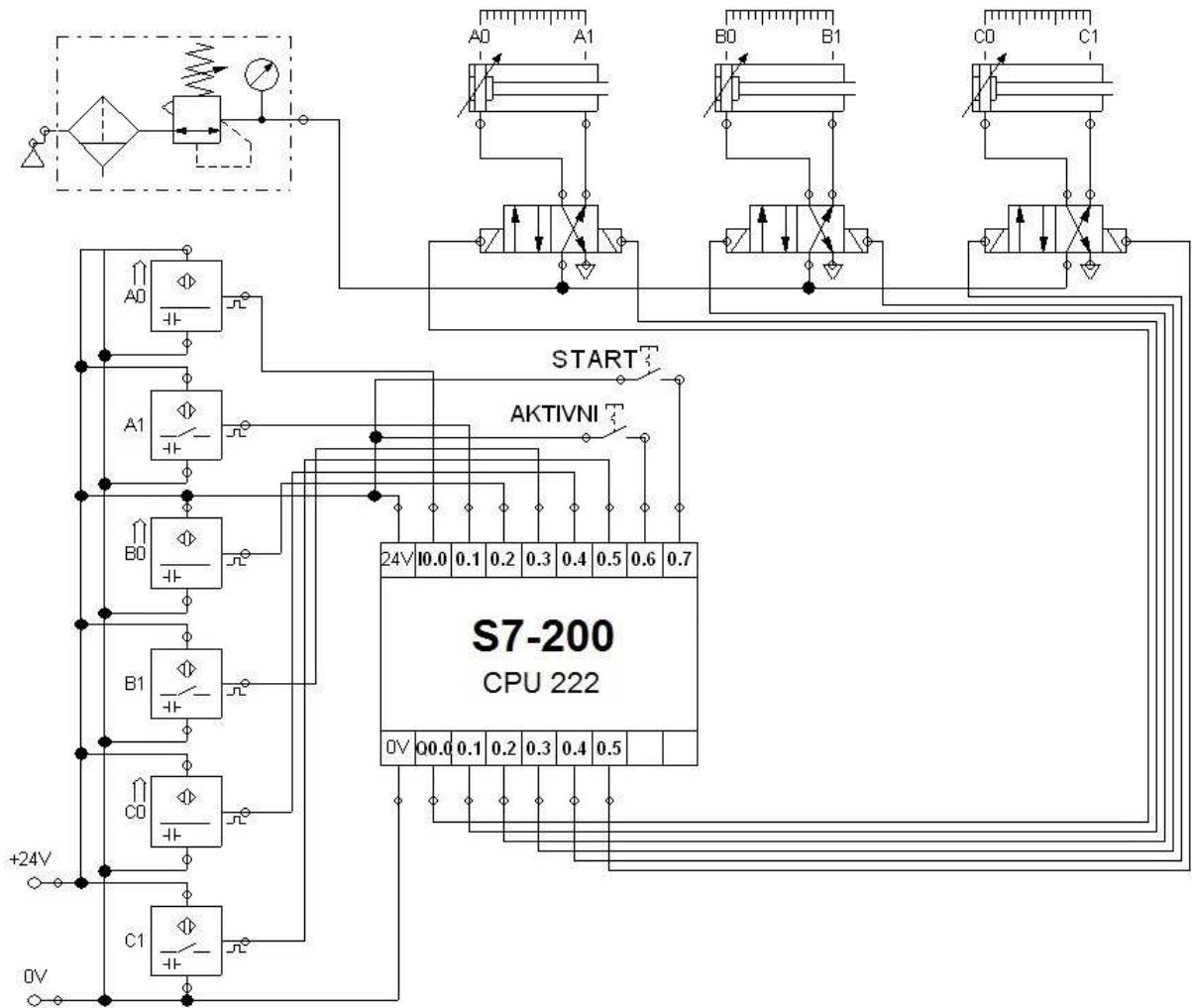
- (8) RA1.RA.AKTIVNI.A0.B0
- (9) RB1.RA.AKTIVNI.B0
- (10) RC1.RA.AKTIVNI.B0.C0
- (11) RA0.RA.AKTIVNI.A1.B0
- (12) RB0.RA.AKTIVNI.B1
- (13) RC0.RA.AKTIVNI.C1.B0



B2 - Stavový diagram



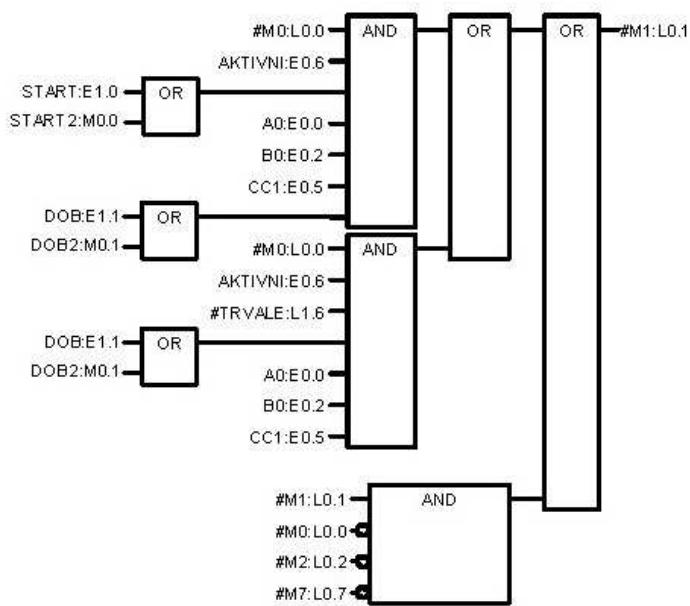
B3 – Petriho síť'



B4 – Schéma zapojení automatu, senzorů a pneumatomotorů

Block: MAIN  
 Author:  
 Created: 08/05/2010 13:12:19  
 Last Modified: 08/05/2010 14:04:00

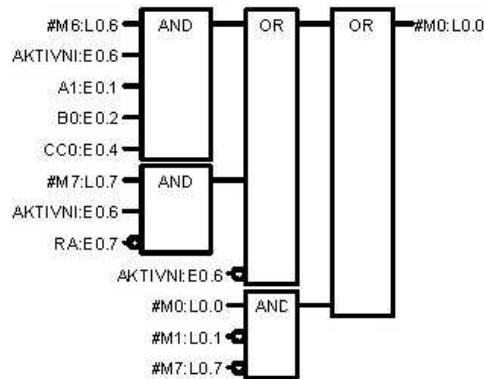
Symbol	Var Type	Data Type	Comment
L0.0	M0	TEMP	BOOL
L0.1	M1	TEMP	BOOL
L0.2	M2	TEMP	BOOL
L0.3	M3	TEMP	BOOL
L0.4	M4	TEMP	BOOL
L0.5	M5	TEMP	BOOL
L0.6	M6	TEMP	BOOL
L0.7	M7	TEMP	BOOL
L1.0	M8	TEMP	BOOL
L1.1	M9	TEMP	BOOL
L1.2	M10	TEMP	BOOL
L1.3	M11	TEMP	BOOL
L1.4	M12	TEMP	BOOL
L1.5	M13	TEMP	BOOL
L1.6	TRVALE	TEMP	BOOL

**Network 2**

## PROGRAM COMMENTS

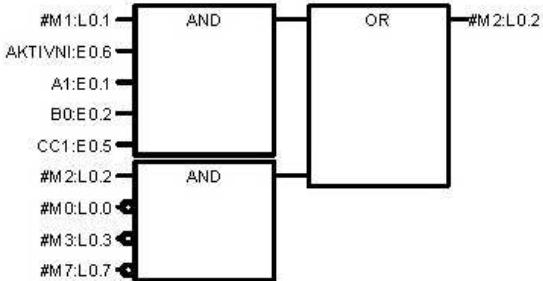
**Network 1** Network Title

Network Comment

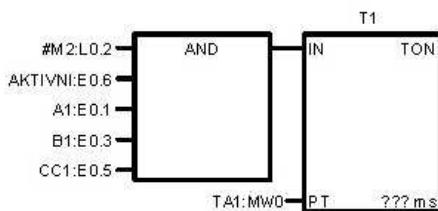


Symbol	Address	Comment
A1	E0.1	
AKTIVNI	E0.6	
B0	E0.2	
CC0	E0.4	
RA	E0.7	

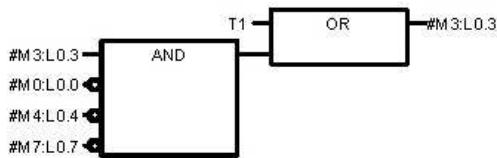
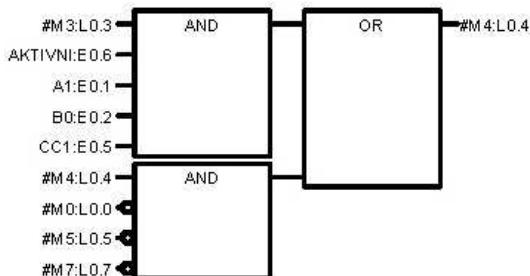
Symbol	Address	Comment
A0	E0.0	
AKTIVNI	E0.6	
B0	E0.2	
CC1	E0.5	
DOB	E1.1	
DOB2	M0.1	
START	E1.0	
START2	M0.0	

**Network 3**

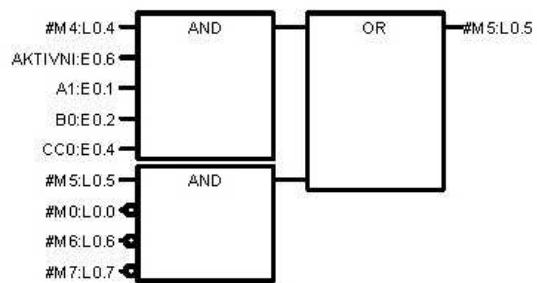
Symbol	Address	Comment
A1	E0.1	
AKTIVNI	E0.6	
B0	E0.2	
CC1	E0.5	

**Network 4**

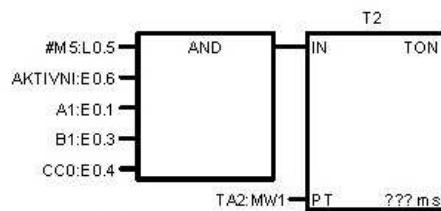
Symbol	Address	Comment
A1	E0.1	
AKTIVNI	E0.6	
B1	E0.3	
CC1	E0.5	
TA1	MW0	

**Network 5****Network 6**

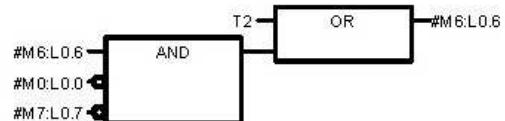
Symbol	Address	Comment
A1	E0.1	
AKTIVNI	E0.6	
B0	E0.2	
CC1	E0.5	

**Network 7**

Symbol	Address	Comment
A1	E0.1	
AKTIVNI	E0.6	
B0	E0.2	
CC0	E0.4	

**Network 8**

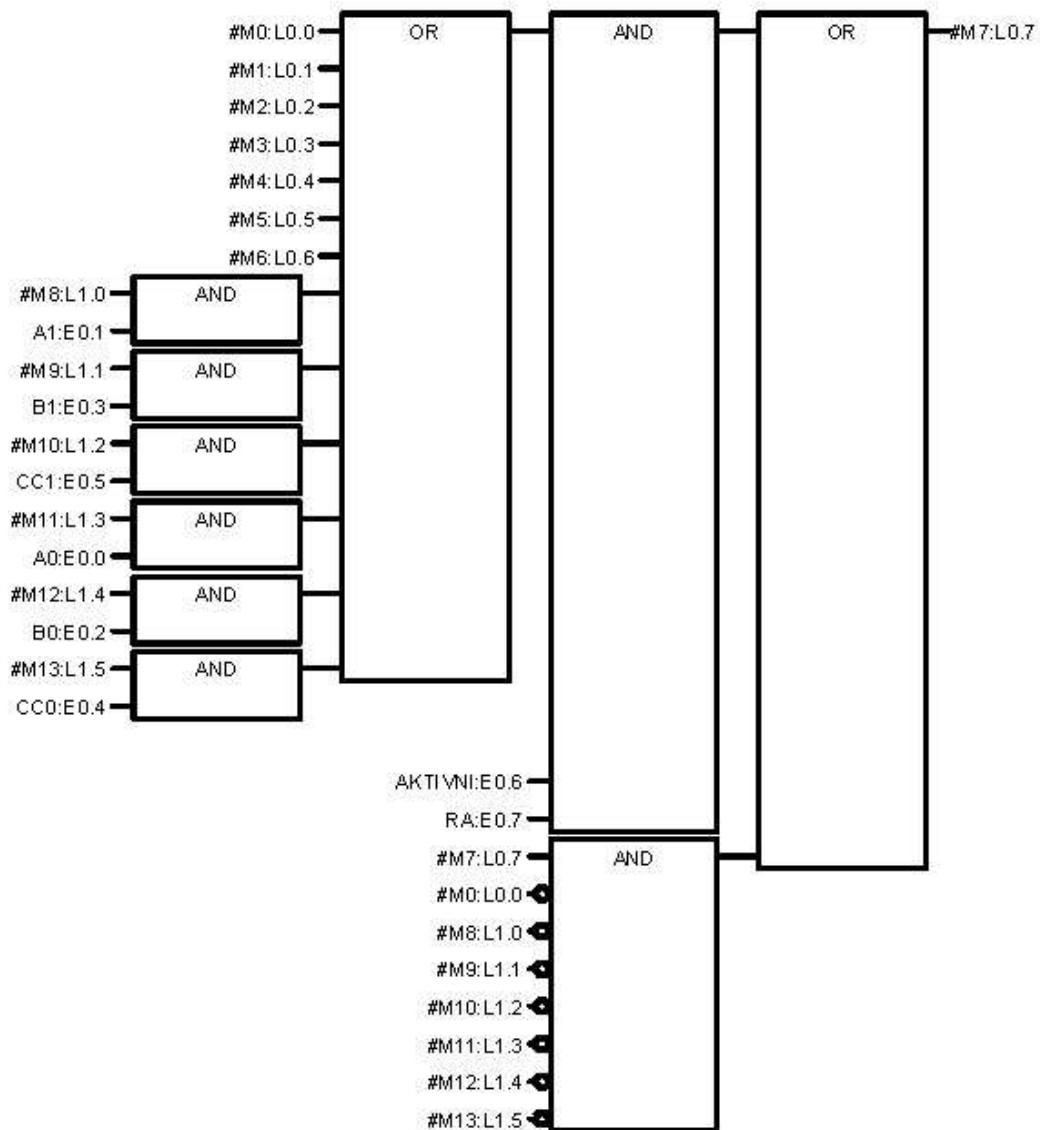
Symbol	Address	Comment
A1	E0.1	
AKTIVNI	E0.6	
B1	E0.3	
CC0	E0.4	
TA2	MW1	

**Network 9**

*B5 – Algoritmus v grafickém jazyku FBD v prostředí STEP7 2/5*

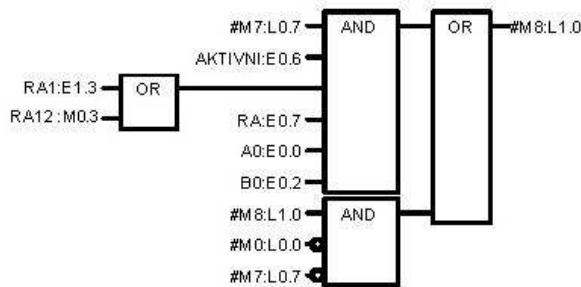
**Network 10** Network Title

Network Comment

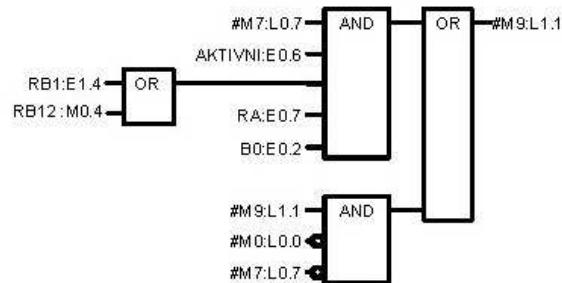


Symbol	Address	Comment
A0	E0.0	
A1	E0.1	
AKTIVNI	E0.6	
B0	E0.2	
B1	E0.3	
CC0	E0.4	
CC1	E0.5	
RA	E0.7	

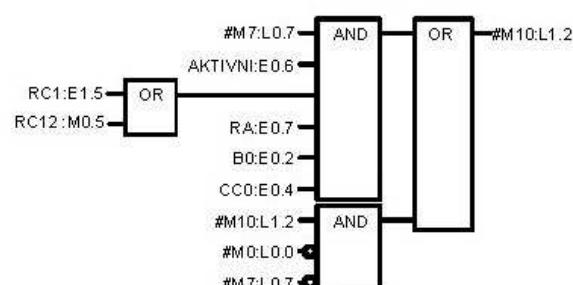
*B5 – Algoritmus v grafickém jazyku FBD v prostředí STEP7 3/5*

**Network 11**

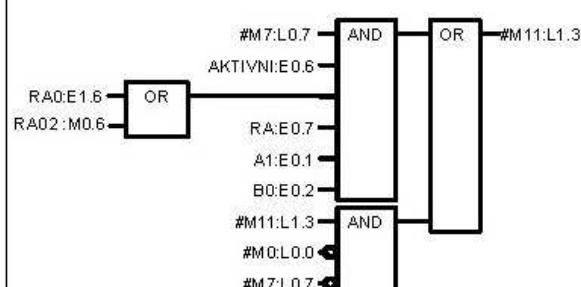
Symbol	Address	Comment
A0	E0.0	
AKTIVNI	E0.6	
B0	E0.2	
RA	E0.7	
RA1	E1.3	
RA12	M0.3	

**Network 12**

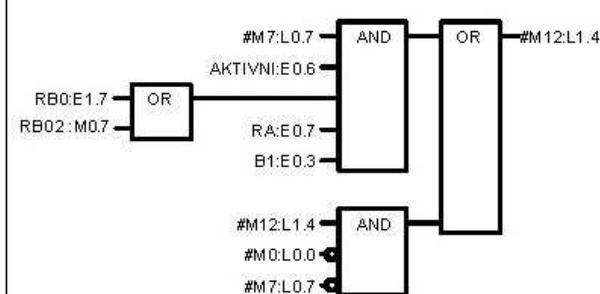
Symbol	Address	Comment
AKTIVNI	E0.6	
B0	E0.2	
RA	E0.7	
RB1	E1.4	
RB12	M0.4	

**Network 13**

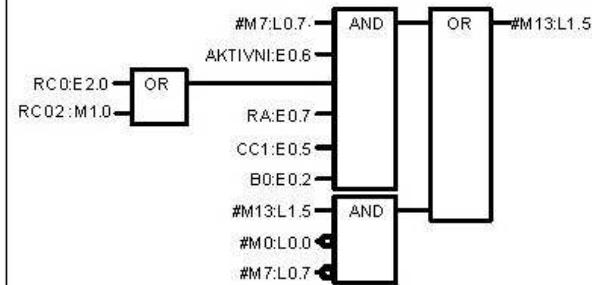
Symbol	Address	Comment
AKTIVNI	E0.6	
B0	E0.2	
CC0	E0.4	
RA	E0.7	
RC1	E1.5	
RC12	M0.5	

**Network 14**

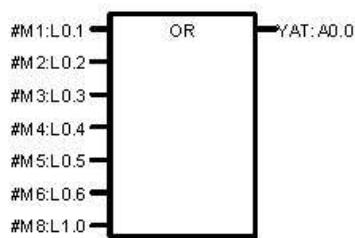
Symbol	Address	Comment
A1	E0.1	
AKTIVNI	E0.6	
B0	E0.2	
RA	E0.7	
RA0	E1.6	
RA02	M0.6	

**Network 15**

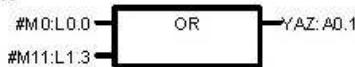
Symbol	Address	Comment
AKTIVNI	E0.6	
B1	E0.3	
RA	E0.7	
RB0	E1.7	
RB02	M0.7	

**Network 16**

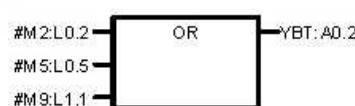
Symbol	Address	Comment
AKTIVNI	E0.6	
B0	E0.2	
CC1	E0.5	
RA	E0.7	
RC0	E2.0	
RC02	M1.0	

**Network 17**

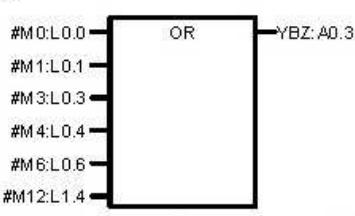
Symbol YAT Address A0.0 Comment

**Network 18**

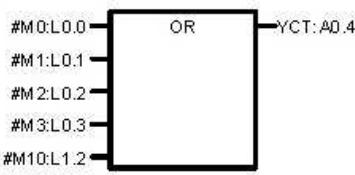
Symbol YAZ Address A0.1 Comment

**Network 19**

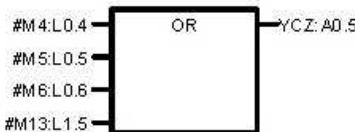
Symbol YBT Address A0.2 Comment

**Network 20**

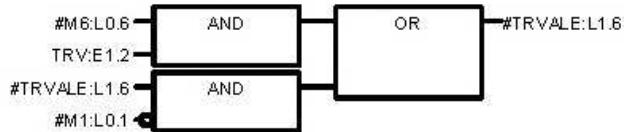
Symbol YBZ Address A0.3 Comment

**Network 21**

Symbol YCT Address A0.4 Comment

**Network 22**

Symbol YCZ Address A0.5 Comment

**Network 23**

Symbol TRV Address E1.2 Comment

*B5 – Algoritmus v grafickém jazyku FBD v prostředí STEP7 5/5*

Jípiskování / MAIN (OB1)

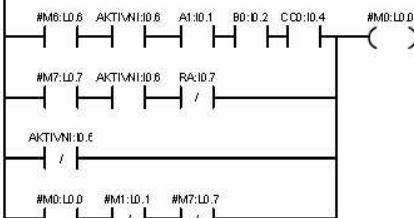
Block: MAIN  
 Author:  
 Created: 07/27/2010 01:00:25 pm  
 Last Modified: 12/01/2010 12:21:58 am

Symbol	Var Type	Data Type	Comment
L0.0 M0	TEMP	BOOL	
L0.1 M1	TEMP	BOOL	
L0.2 M2	TEMP	BOOL	
L0.3 M3	TEMP	BOOL	
L0.4 M4	TEMP	BOOL	
L0.5 M5	TEMP	BOOL	
L0.6 M6	TEMP	BOOL	
L0.7 M7	TEMP	BOOL	
L1.0 M8	TEMP	BOOL	
L1.1 M9	TEMP	BOOL	
L1.2 M10	TEMP	BOOL	
L1.3 M11	TEMP	BOOL	
L1.4 M12	TEMP	BOOL	
L1.5 M13	TEMP	BOOL	
L1.6 TRVALE	TEMP	BOOL	
		TEMP	

PROGRAM COMMENTS

Network 1 Network Title

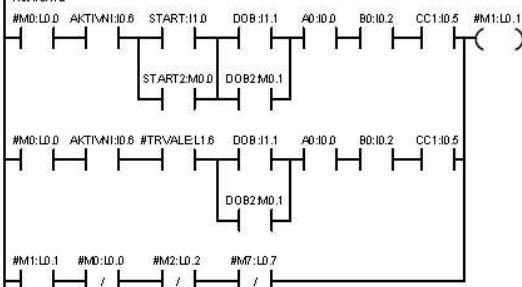
Network Comment



Symbol Address Comment

A1 I0.1  
 AKTIVNI I0.6  
 B0 I0.2  
 CC0 I0.4  
 RA I0.7

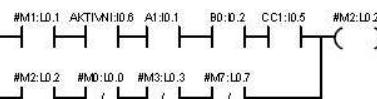
Network 2



Symbol Address Comment

A0 I0.0  
 AKTIVNI I0.6  
 B0 I0.2  
 CC1 I0.5  
 D0B I1.1  
 D0B2 M0.1  
 START M0.0  
 START2 M0.0

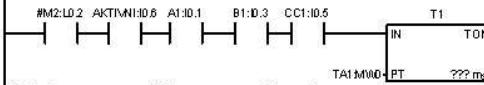
Network 3



Symbol Address Comment

A1 I0.1  
 AKTIVNI I0.6  
 B0 I0.2  
 CC1 I0.5

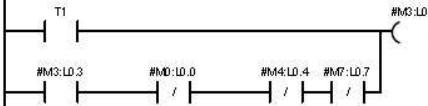
Network 4



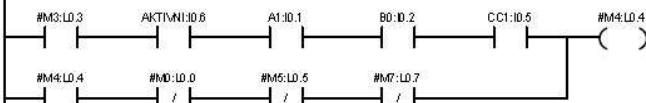
Symbol Address Comment

A1 I0.1  
 AKTIVNI I0.6  
 B1 I0.3  
 CC1 I0.5  
 TA1 MW0

Network 5



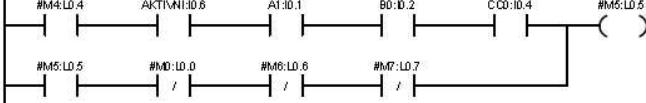
Network 6



Symbol Address Comment

A1 I0.1  
 AKTIVNI I0.6  
 B0 I0.2  
 CC1 I0.5

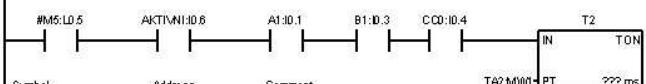
Network 7



Symbol Address Comment

A1 I0.1  
 AKTIVNI I0.6  
 B0 I0.2  
 CC1 I0.4

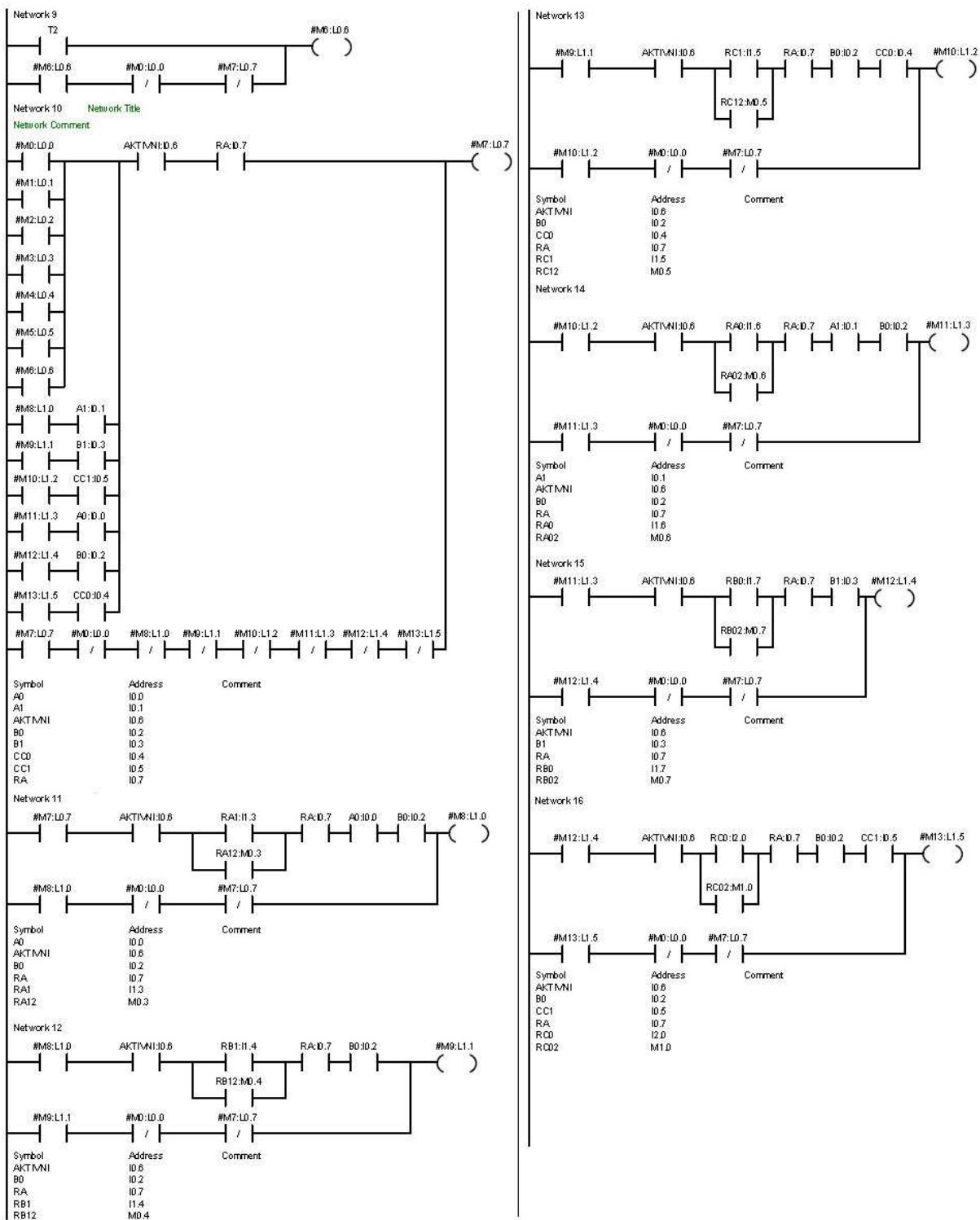
Network 8



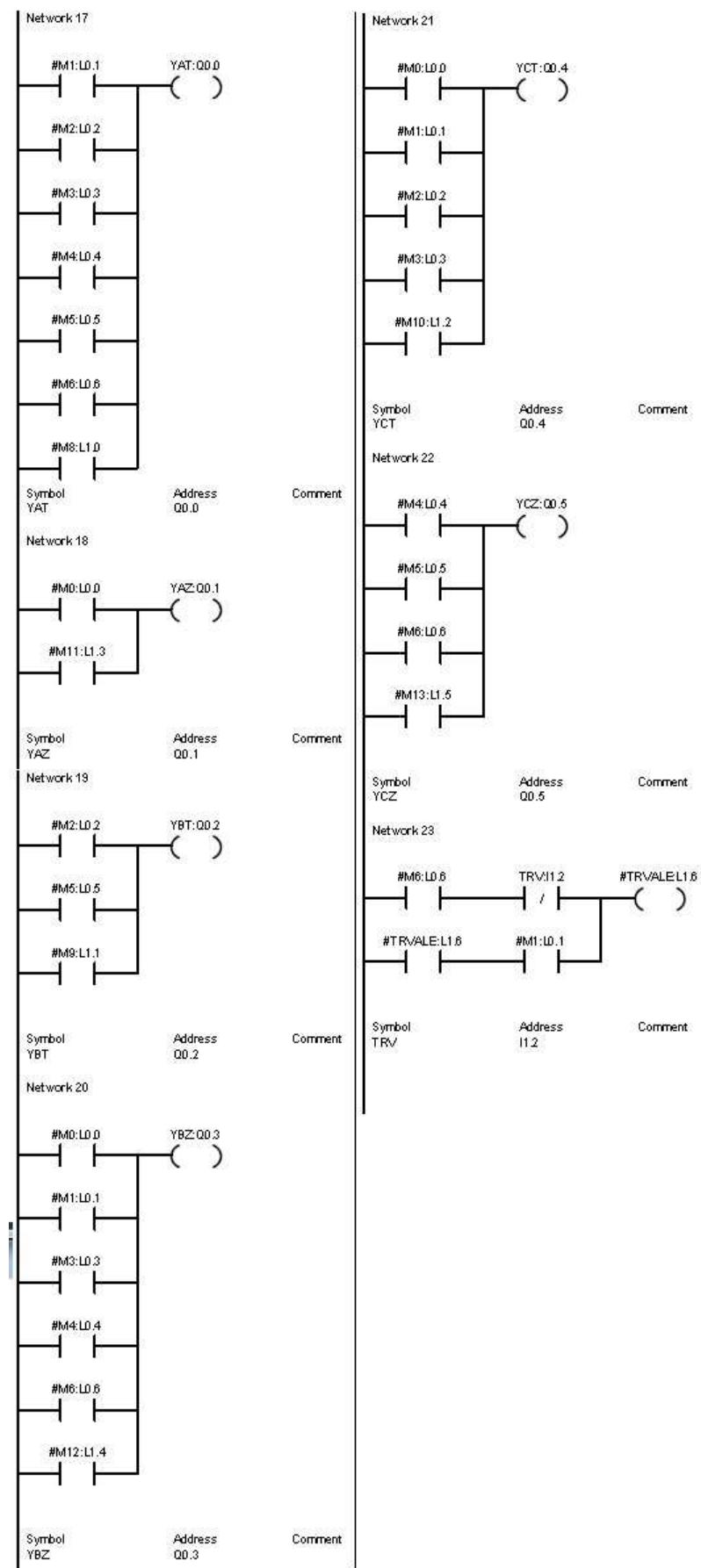
Symbol Address Comment

A1 I0.1  
 AKTIVNI I0.6  
 B1 I0.3  
 CC1 I0.4  
 TA2 MW1

B6 – Algoritmus v grafickém jazyku LAD v prostředí STEP7 1/3



B6 – Algoritmus v grafickém jazyku LAD v prostředí STEP7 2/3



B6 – Algoritmus v grafickém jazyku LAD v prostředí STEP7 3/3

## B7 – Výpis skriptu z prostředí Reliance

```
rem ****
rem Reliance 4
rem Projekt: Opískování
rem Uživatel: Stepan
rem Datum: 30.8.2010
rem Čas: 13:08:15
rem ****
```

### Option Explicit

```
Dim aktiv, vpcb, vpa, vpb, vpc, ob_x, start, novy, obp, rucne, p10, p11, p20, p21, p30, p31,  
a0, a1, b0, b1, c0, c1, trv, piska, piskb, povnastpisk, provruc, provaut
```

### 'Nacteni promennych

```
vpa = RTag.GetTagValue("System", "Vysunuti_PistuA")
vpb = RTag.GetTagValue("System", "Vysunuti_PistuB")
vpc = RTag.GetTagValue("System", "Vysunuti_PistuC")
vpcb = RTag.GetTagValue("System", "Vysunuti_PistuCB")
p10 = RTag.GetTagValue("OPC1", "YAT")
p11 = RTag.GetTagValue("OPC1", "YAZ")
p20 = RTag.GetTagValue("OPC1", "YBT")
p21 = RTag.GetTagValue("OPC1", "YBZ")
p30 = RTag.GetTagValue("OPC1", "YCT")
p31 = RTag.GetTagValue("OPC1", "YCZ")
a0 = RTag.GetTagValue("System", "PAD")
a1 = RTag.GetTagValue("System", "PAH")
b0 = RTag.GetTagValue("System", "PBD")
b1 = RTag.GetTagValue("System", "PBH")
c0 = RTag.GetTagValue("System", "PCD")
c1 = RTag.GetTagValue("System", "PCH")
ob_x = RTag.GetTagValue("System", "Obrobek_x")
start = RTag.GetTagValue("System", "Start")
novy = RTag.GetTagValue("System", "Novy_obrobek")
obp = RTag.GetTagValue("System", "Obrobek_pripraven")
rucne = RTag.GetTagValue("System", "Rucne")
aktiv = RTag.GetTagValue("System", "Aktivni")
trv = RTag.GetTagValue("System", "Trvale")
piska = RTag.GetTagValue("System", "PiskA")
piskb = RTag.GetTagValue("System", "PiskB")
povnastpisk = RTag.GetTagValue("System", "PovNastPisk")
provruc = RTag.GetTagValue("System", "ProvRuc")
provaut = RTag.GetTagValue("System", "ProvAut")
```

```
vpc=vpc*(-1)
vpa=vpa*(-1)
ob_x=ob_x*(-1)
```

```
if trv=true then
novy=true
```

end if

if novy=true and vpa=0 then  
ob\_x=0  
end if

if (ob\_x=0) then obp=true else obp=false end if

'posuny motoru a obrobku  
if (p10=true) then  
if vpa<88 then  
vpa=vpa+8  
ob\_x=ob\_x+8  
end if  
if vpa=88 then  
p10=false  
end if  
end if

if (p11=true) then  
if trv=false then  
novy=false  
end if  
if vpa>0 then  
vpa=vpa-8  
ob\_x=10000  
end if  
if vpa=0 then  
p11=false  
end if  
end if

if (p20=true) then  
if vpb<24 then  
vpb=vpb+6  
end if  
if vpb=30 then  
p21=true  
end if  
end if

if (p21=true) then  
if vpb>0 then  
vpb=vpb-6  
end if  
if vpb=0 then  
p21=false  
end if  
end if

```

if (p30=true) then
if vpc<70 then
vpc=vpc+10
end if
if vpc=70 then
p30=false
end if
end if

if (p31=true) then
if vpc>0 then
vpc=vpc-10
else
p31=false
end if
end if

if a1=true and c1=true and b1=true then
piska=true
else
piska=false
end if

if a1=true and c0=true and b1=true then
piskb=true
else
piskb=false
end if

if rucne=false and a0=true then
povnastpisk=true
else
povnastpisk=false
end if

if rucne=true and aktiv=true then
provruc=true
else
provruc=false
end if

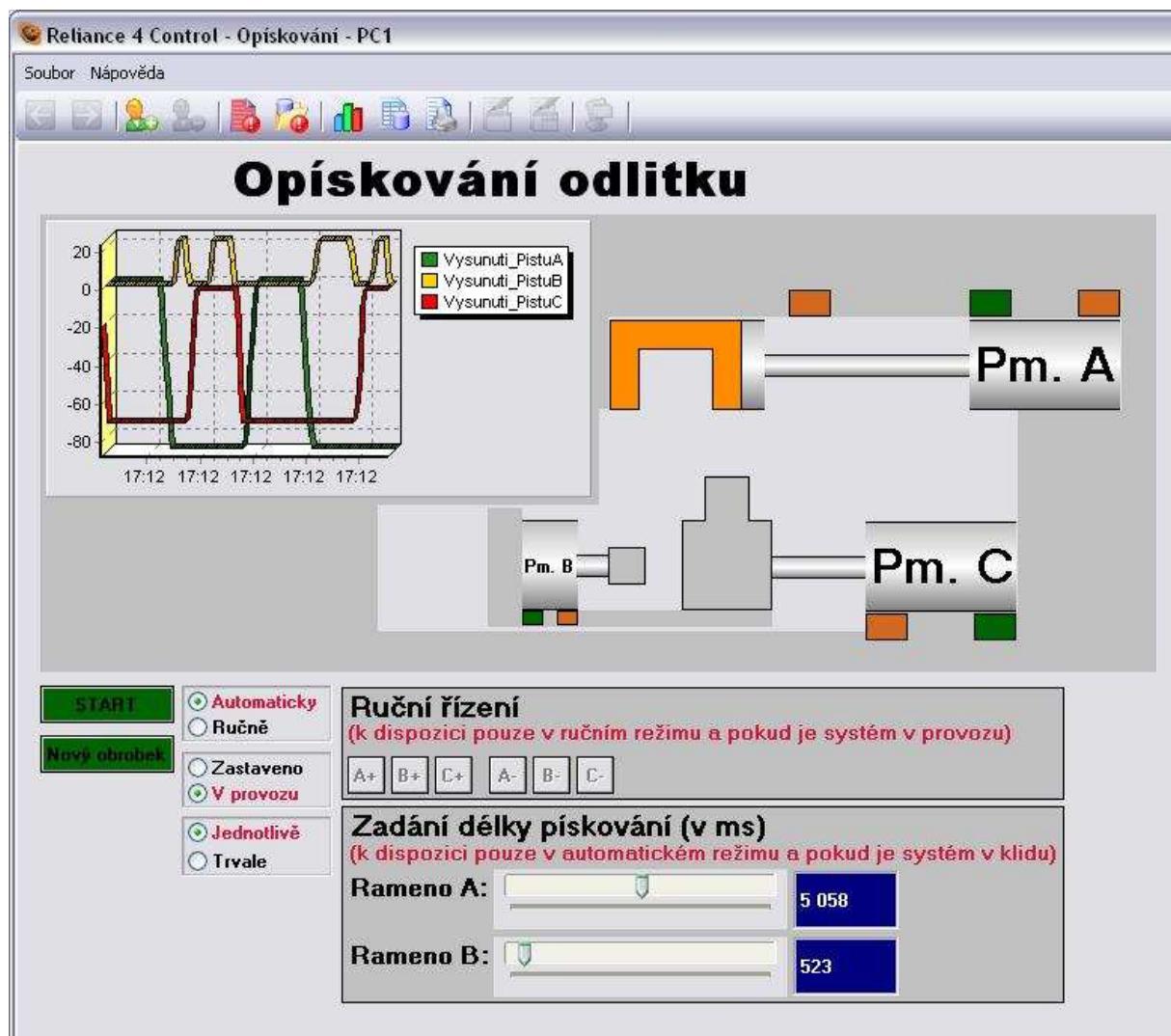
if rucne=false and aktiv=true then
provaut=true
else
provaut=false
end if

'Ulozeni promennych
vpc=vpc*(-1)
vpa=vpa*(-1)

```

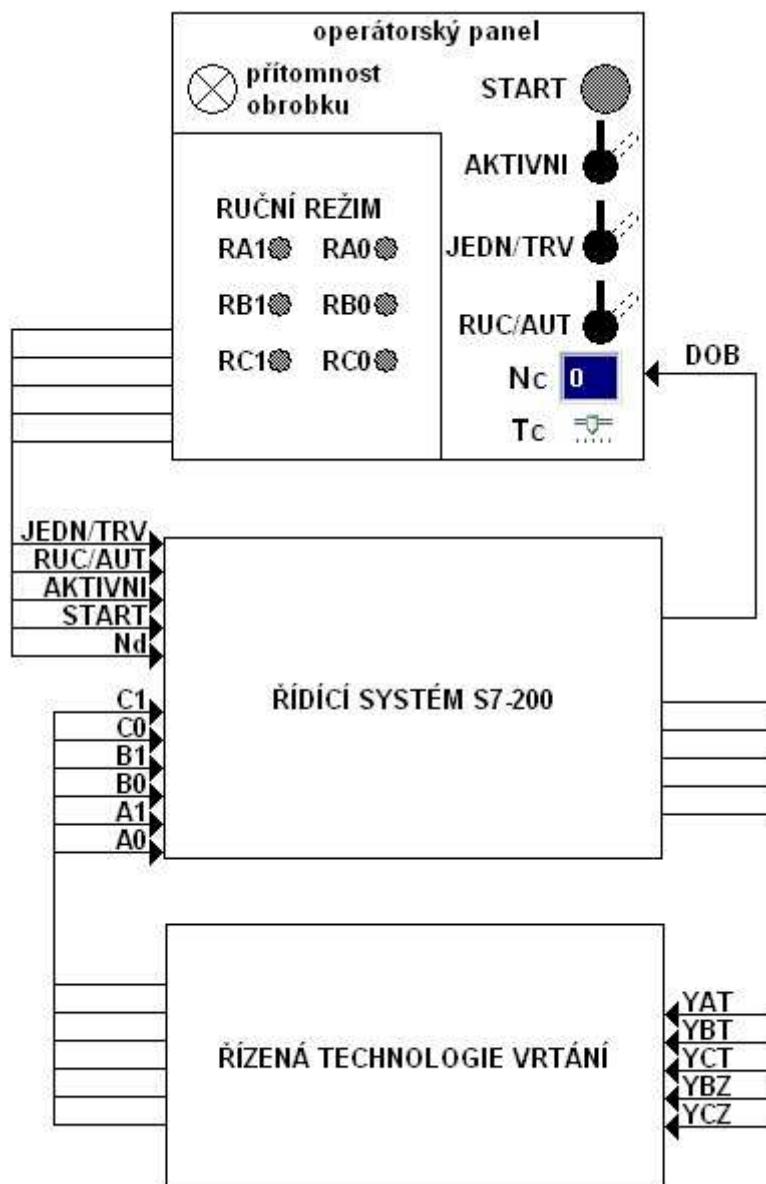
ob\_x=ob\_x\*(-1)  
vpcb=vpb+vpc

RTag.SetTagValue "System", "Vysunuti\_PistuA" , vpa  
RTag.SetTagValue "System", "Vysunuti\_PistuB" , vpb  
RTag.SetTagValue "System", "Vysunuti\_PistuC" , vpc  
RTag.SetTagValue "System", "Vysunuti\_PistuCB" , vpcb  
RTag.SetTagValue "System", "Obrobek\_x" , ob\_x  
RTag.SetTagValue "OPC1", "START" , start  
RTag.SetTagValue "System", "Start" , start  
RTag.SetTagValue "System", "Novy\_obrobek" , novy  
RTag.SetTagValue "System", "Obrobek\_pripraven" , obp  
RTag.SetTagValue "OPC1", "RA" , rucne  
RTag.SetTagValue "OPC1", "DOB" , obp  
RTag.SetTagValue "OPC1", "AKTIVNI" , aktiv  
RTag.SetTagValue "OPC1", "A0" , a0  
RTag.SetTagValue "OPC1", "A1" , a1  
RTag.SetTagValue "OPC1", "B0" , b0  
RTag.SetTagValue "OPC1", "B1" , b1  
RTag.SetTagValue "OPC1", "C0" , c0  
RTag.SetTagValue "OPC1", "C1" , c1  
RTag.SetTagValue "System", "PiskA" , piska  
RTag.SetTagValue "System", "PiskB" , piskb  
RTag.SetTagValue "OPC1", "TRV" , trv  
RTag.SetTagValue "System", "PovNastPisk" , povnastpisk  
RTag.SetTagValue "System", "ProvRuc" , provruc  
RTag.SetTagValue "System", "ProvAut" , provanut



B8 – Vizualizační okno úlohy Opískování v runtime režimu

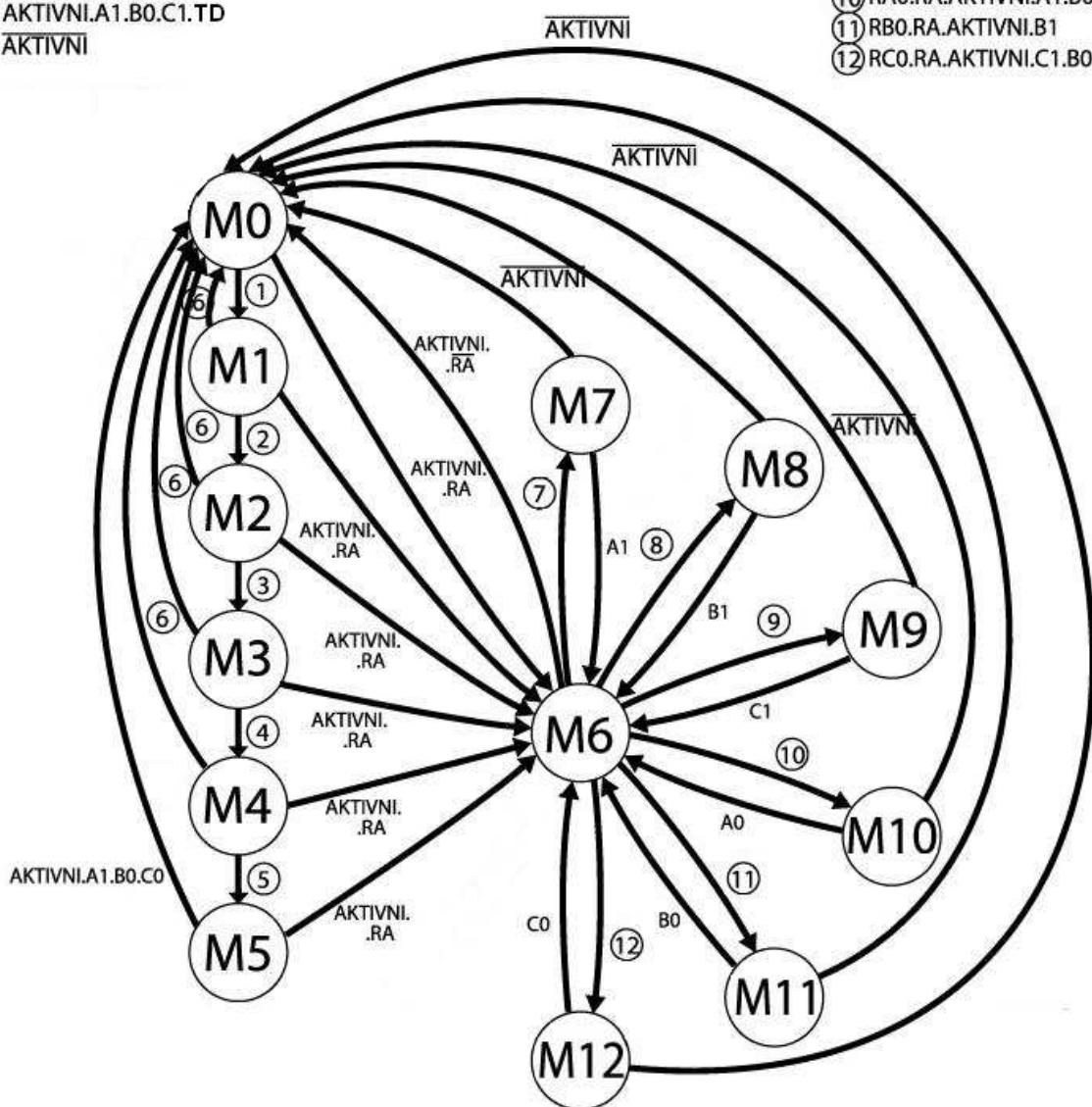
## Úloha C – Přípravek pro ohýbání



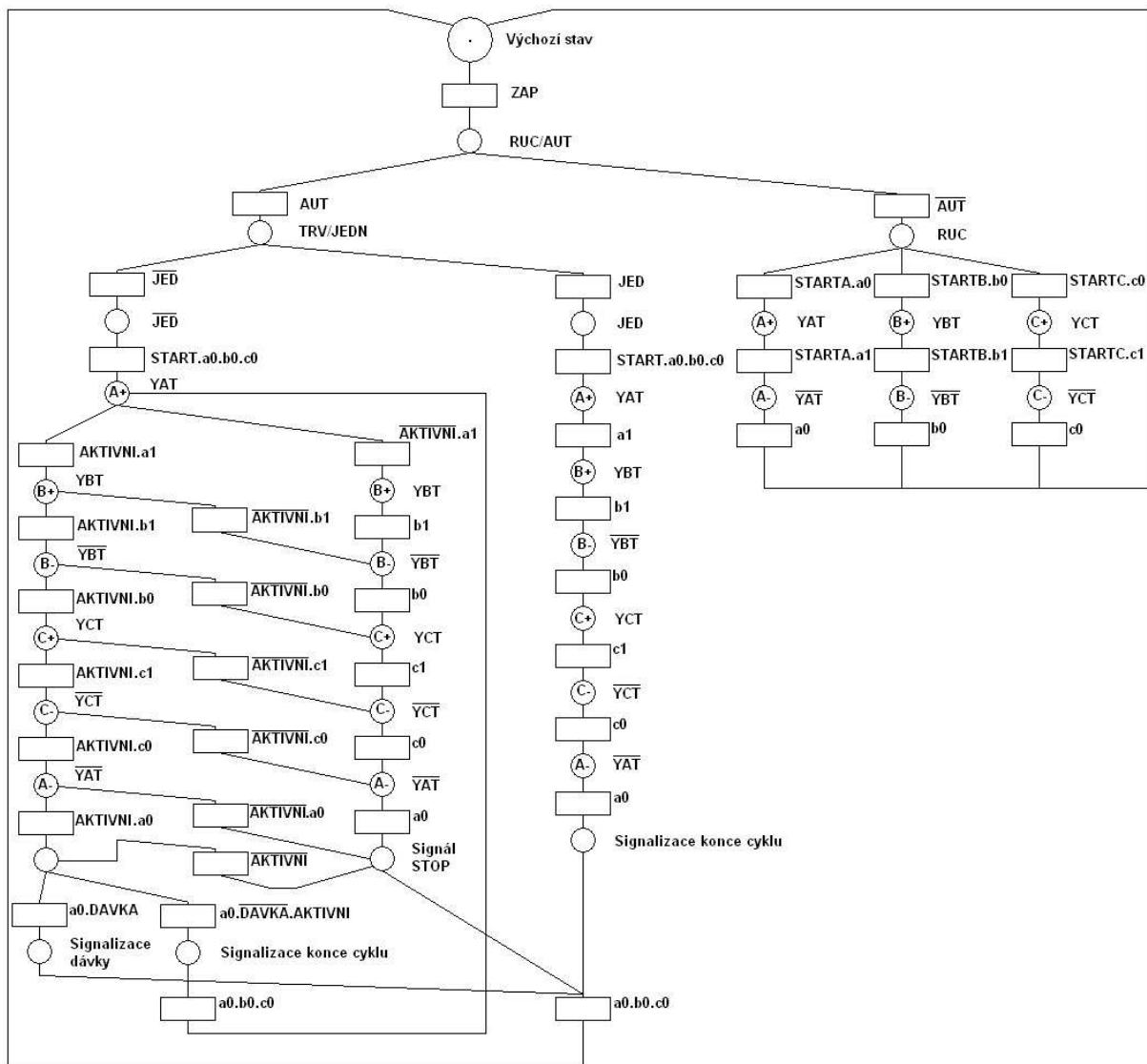
C1 – Blokové schéma řízeného a řídícího systému s operátorským panelem

- (1) AKTIVNI.START.TRV.DOB.A0.B0.C0
- (2) AKTIVNI.A1.B0.C0
- (3) AKTIVNI.A1.B1.C0
- (4) AKTIVNI.A1.B0.C0
- (5) AKTIVNI.A1.B0.C1.TD
- (6) AKTIVNI

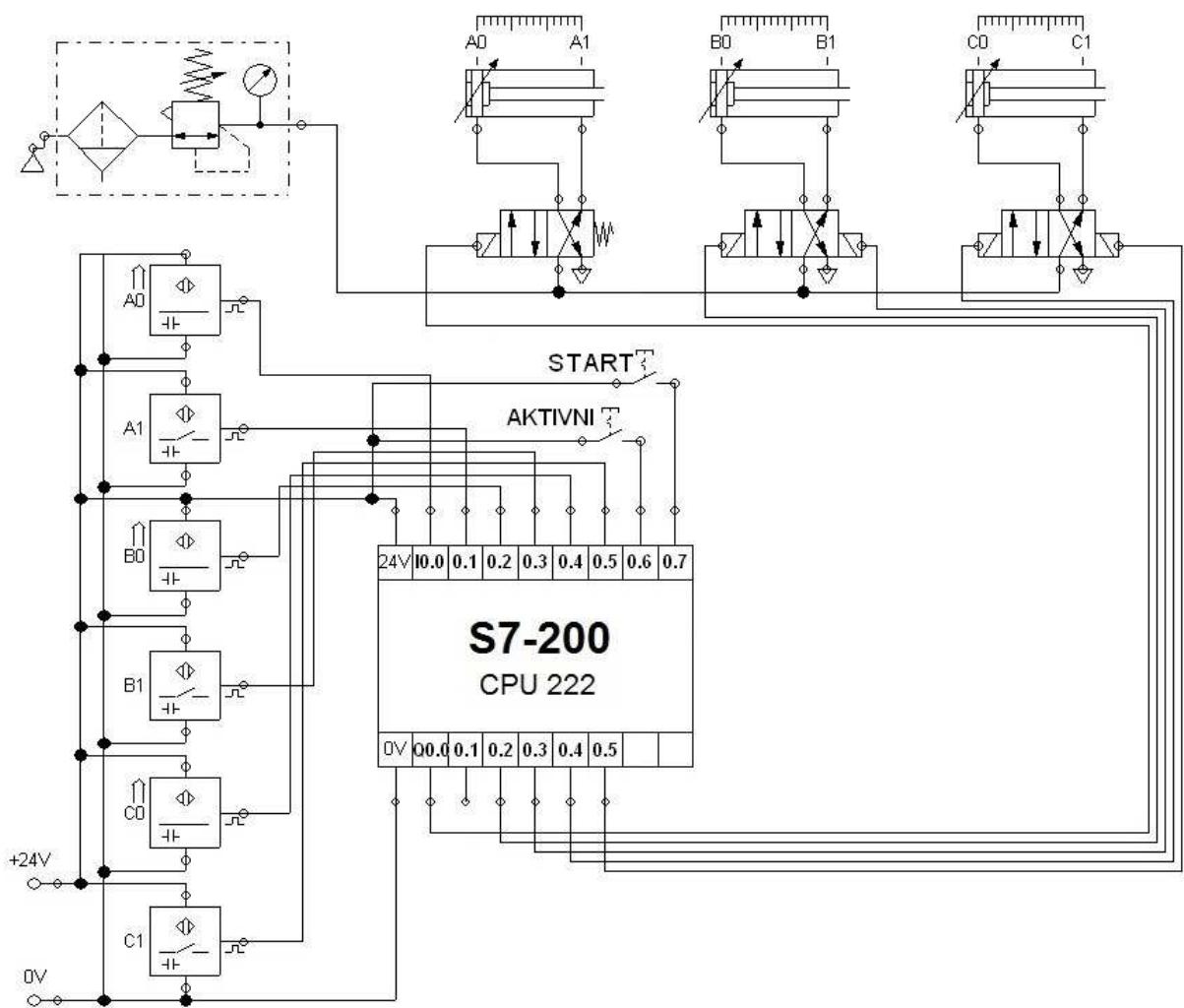
- (7) RA1.RA.AKTIVNI.A0.B0
- (8) RB1.RA.AKTIVNI.B0
- (9) RC1.RA.AKTIVNI.B0.C0
- (10) RA0.RA.AKTIVNI.A1.B0
- (11) RB0.RA.AKTIVNI.B1
- (12) RC0.RA.AKTIVNI.C1.B0



C2 – Stavový diagram



C3 – Petriho síť'



C4 – Schéma zapojení automatu, senzorů a pneumatomotorů

OhybaniGoj / MAIN (OB1)

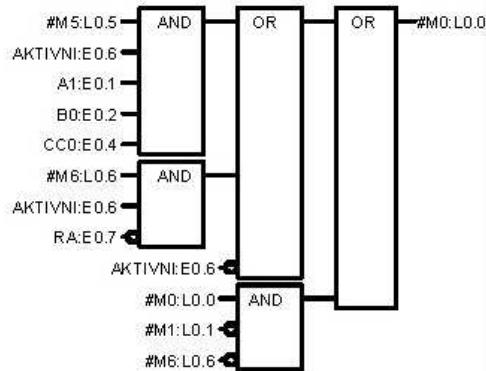
Block: MAIN  
 Author:  
 Created: 08/05/2010 12:17:08  
 Last Modified: 08/05/2010 14:05:43

Symbol	Var Type	Data Type	Comment
L0.0	M0	TEMP	BOOL
L0.1	M1	TEMP	BOOL
L0.2	M2	TEMP	BOOL
L0.3	M3	TEMP	BOOL
L0.4	M4	TEMP	BOOL
L0.5	M5	TEMP	BOOL
L0.6	M6	TEMP	BOOL
L0.7	M7	TEMP	BOOL
L1.0	M8	TEMP	BOOL
L1.1	M9	TEMP	BOOL
L1.2	M10	TEMP	BOOL
L1.3	M11	TEMP	BOOL
L1.4	M12	TEMP	BOOL
L1.5	TRVALE	TEMP	BOOL

PROGRAM COMMENTS

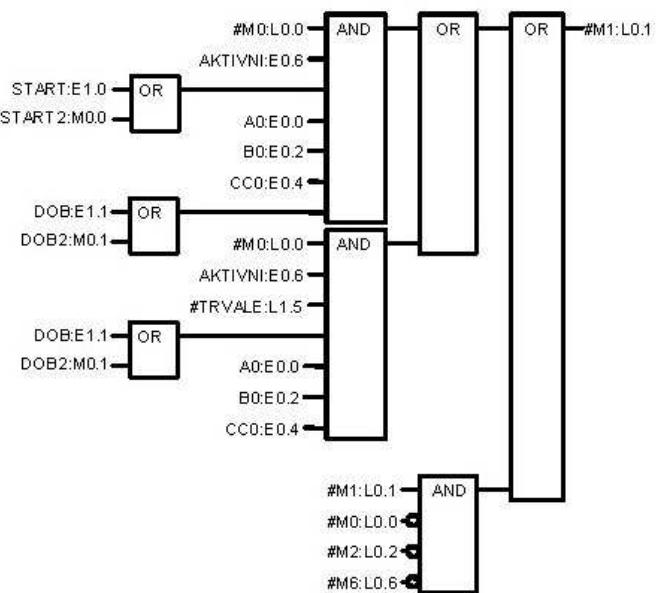
**Network 1** Network Title

Network Comment



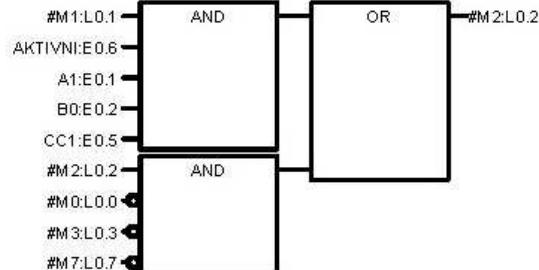
Symbol	Address	Comment
A1	E0.1	
AKTIVNI	E0.6	
B0	E0.2	
CC0	E0.4	
RA	E0.7	

**Network 2**



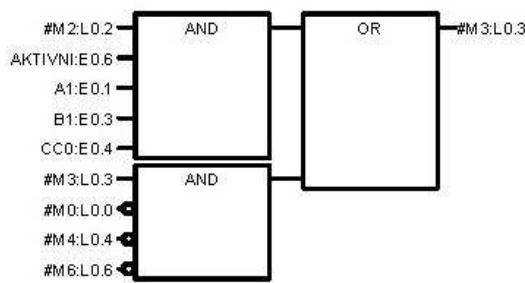
Symbol	Address	Comment
A0	E0.0	
AKTIVNI	E0.6	
B0	E0.2	
CC0	E0.4	
DOB	E1.1	
DOB2	M0.1	
START	E1.0	
START2	M0.0	

**Network 3**

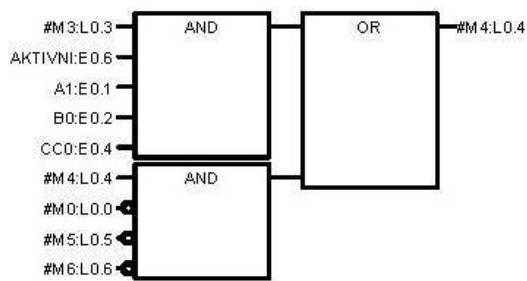


Symbol	Address	Comment
A1	E0.1	
AKTIVNI	E0.6	
B0	E0.2	
CC1	E0.5	

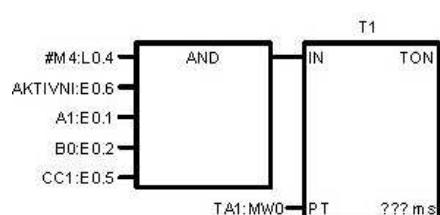
C5 – Algoritmus v grafickém jazyku FBD v prostředí STEP7 1/3

**Network 4**

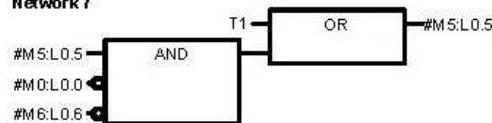
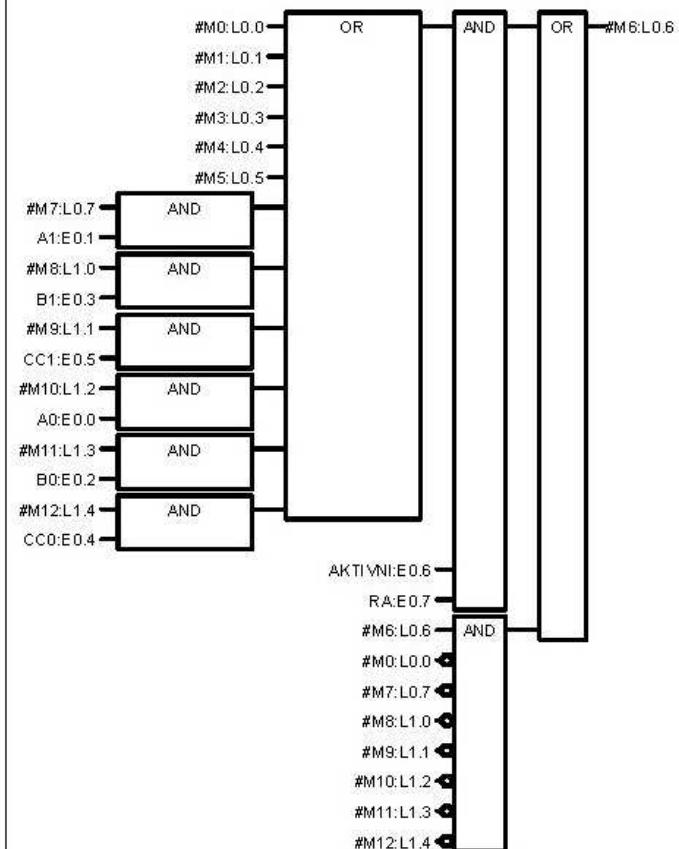
Symbol	Address	Comment
A1	E0.1	
AKTIVNI	E0.6	
B1	E0.3	
CC0	E0.4	

**Network 5**

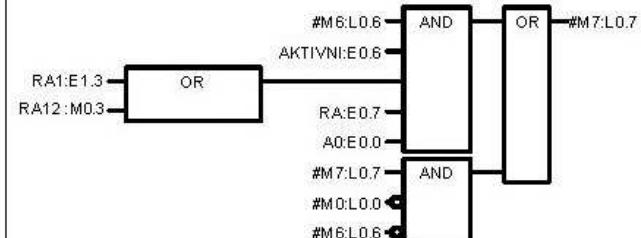
Symbol	Address	Comment
A1	E0.1	
AKTIVNI	E0.6	
B0	E0.2	
CC0	E0.4	

**Network 6**

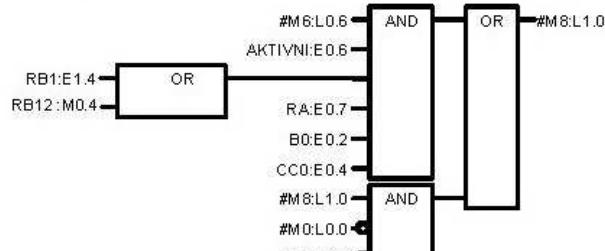
Symbol	Address	Comment
A1	E0.1	
AKTIVNI	E0.6	
B0	E0.2	
CC1	E0.5	

**Network 7****Network 8**

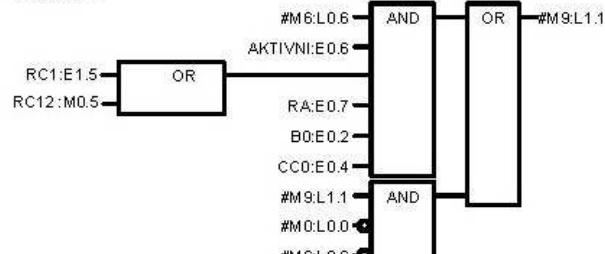
Symbol	Address	Comment
A0	E0.0	
A1	E0.1	
AKTIVNI	E0.6	
B0	E0.2	
B1	E0.3	
CC0	E0.4	
CC1	E0.5	
RA	E0.7	

**Network 9**

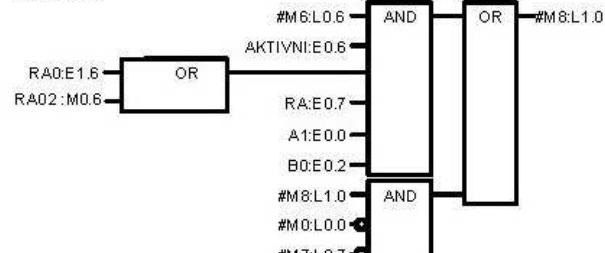
Symbol	Address	Comment
A0	E0.0	
AKTIVNI	E0.6	
RA	E0.7	
RA1	E1.3	
RA12	M0.3	

**Network 10**

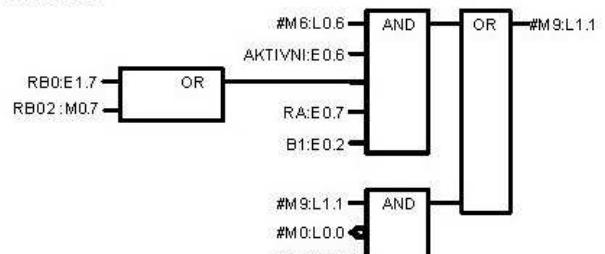
Symbol	Address	Comment
AKTIVNI	E0.6	
BO	E0.2	
CCO	E0.4	
RA	E0.7	
RB1	E1.4	
RB12	M0.4	

**Network 11**

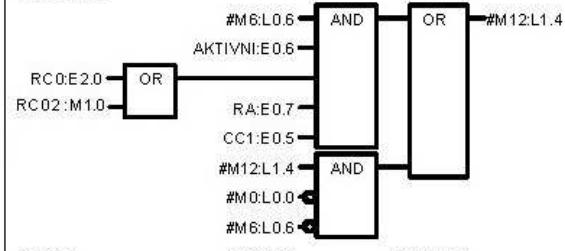
Symbol	Address	Comment
AKTIVNI	E0.6	
BO	E0.2	
CCO	E0.4	
RA	E0.7	
RC1	E1.5	
RC12	M0.5	

**Network 12**

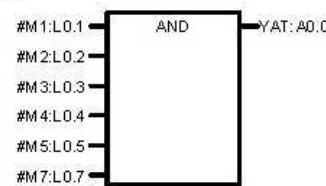
Symbol	Address	Comment
A0	E0.0	
AKTIVNI	E0.6	
BO	E0.2	
RA	E0.7	
RA0	E1.6	
RA02	M0.6	

**Network 13**

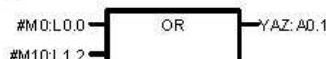
Symbol	Address	Comment
AKTIVNI	E0.6	
BO	E0.2	
RA	E0.7	
RB0	E1.7	
RB02	M0.7	

**Network 14**

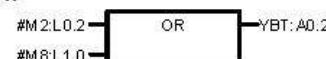
Symbol	Address	Comment
AKTIVNI	E0.6	
CC1	E0.5	
RA	E0.7	
RC0	E2.0	
RC02	M1.0	

**Network 15**

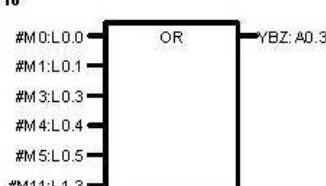
Symbol	Address	Comment
YAT	A0.0	

**Network 16**

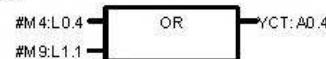
Symbol	Address	Comment
YAZ	A0.1	

**Network 17**

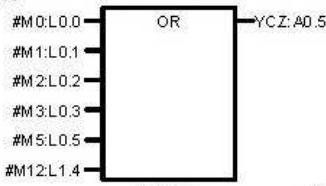
Symbol	Address	Comment
YBT	A0.2	

**Network 18**

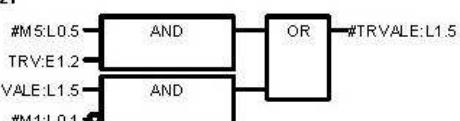
Symbol	Address	Comment
YBZ	A0.3	

**Network 19**

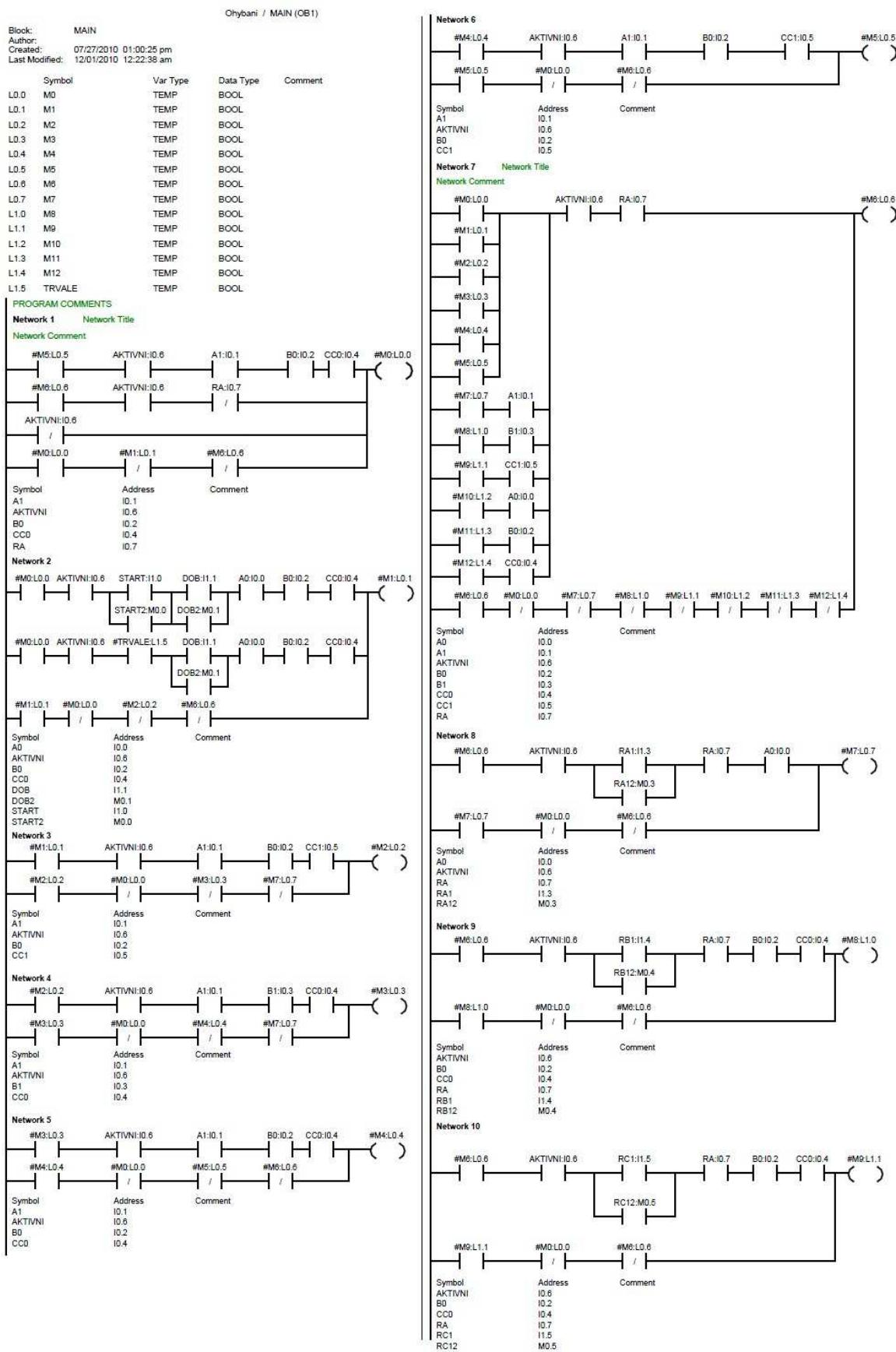
Symbol	Address	Comment
YCT	A0.4	

**Network 20**

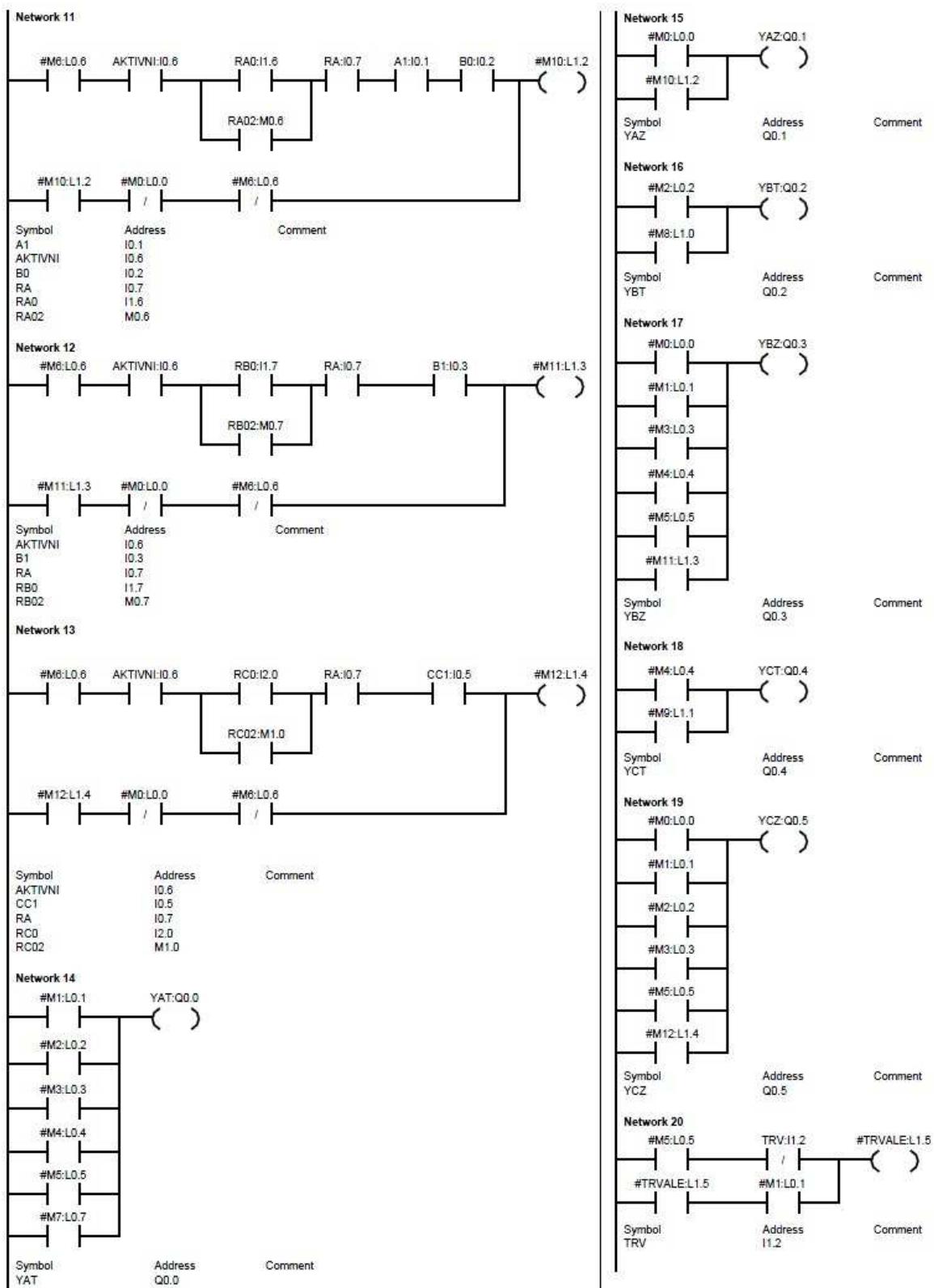
Symbol	Address	Comment
YCZ	A0.5	

**Network 21**

Symbol	Address	Comment
TRV	E1.2	



C6 – Algoritmus v grafickém jazyku LAD v prostředí STEP7 1/2



C6 – Algoritmus v grafickém jazyku LAD v prostředí STEP7 2/2

## C7 – Výpis skriptu z prostředí Reliance

```
rem ****
rem Reliance 4
rem Projekt: Ohybani
rem Uživatel: Stepan
rem Datum: 31.8.2010
rem Čas: 18:59:39
rem ****
```

### Option Explicit

```
Dim aktiv, vpa, vpb, vpc, start, novy, obp, rucne, p10, p11, p20, p21, p30, p31, a0, a1, b0, b1, c0, c1, trv, provruc, provaut, ob1, ob2, ob3
```

```
'Nacteni promennych
```

```
vpa = RTag.GetTagValue("System", "Vysunuti_PistuA")
vpb = RTag.GetTagValue("System", "Vysunuti_PistuB")
vpc = RTag.GetTagValue("System", "Vysunuti_PistuC")
p10 = RTag.GetTagValue("OPC1", "YAT")
p11 = RTag.GetTagValue("OPC1", "YAZ")
p20 = RTag.GetTagValue("OPC1", "YBT")
p21 = RTag.GetTagValue("OPC1", "YBZ")
p30 = RTag.GetTagValue("OPC1", "YCT")
p31 = RTag.GetTagValue("OPC1", "YCZ")
a0 = RTag.GetTagValue("System", "PAD")
a1 = RTag.GetTagValue("System", "PAH")
b0 = RTag.GetTagValue("System", "PBD")
b1 = RTag.GetTagValue("System", "PBH")
c0 = RTag.GetTagValue("System", "PCD")
c1 = RTag.GetTagValue("System", "PCH")
start = RTag.GetTagValue("System", "Start")
novy = RTag.GetTagValue("System", "Novy_obrobek")
obp = RTag.GetTagValue("System", "Obrobek_pripraven")
rucne = RTag.GetTagValue("System", "Rucne")
aktiv = RTag.GetTagValue("System", "Aktivni")
trv = RTag.GetTagValue("System", "Trvale")
provruc = RTag.GetTagValue("System", "ProvRuc")
provaut = RTag.GetTagValue("System", "ProvAut")
ob1 = RTag.GetTagValue("System", "Ob1")
ob2 = RTag.GetTagValue("System", "Ob2")
ob3 = RTag.GetTagValue("System", "Ob3")
```

```
if trv=true then
novy=true
end if
```

```
if novy=true and vpa=0 then
ob1=true
ob2=false
```

ob3=false

end if

if ob1=true then obp=true else obp=false end if

'posuny motoru a zobrazeni obrobku

if (p10=true) then

if vpa<32 then

vpa=vpa+4

ob1=true

ob2=false

ob3=false

end if

if vpa=32 then

p10=false

end if

end if

if (p11=true) then

if trv=false then

novy=false

end if

if vpa>0 then

ob1=false

ob2=false

ob3=false

vpa=vpa-4

end if

if vpa=0 then

p11=false

end if

end if

if (p20=true) then

if vpb<52 then

vpb=vpb+4

if vpb>4 then

ob1=false

ob2=true

ob3=false

end if

end if

if vpb=56 then

p21=true

end if

end if

if (p21=true) then

if vpb>0 then

ob1=false

```

ob2=true
ob3=false
vpb=vpb-4
end if
if vpb=0 then
p21=false
end if
end if

if (p30=true) then
if vpc<124 then
vpc=vpc+8
if vpc>98 then
ob1=false
ob2=false
ob3=true
end if
end if
if vpc=124 then
p30=false
end if
end if

if (p31=true) then
if vpc>0 then
vpc=vpc-8
ob1=false
ob2=false
ob3=true
else
p31=false
end if
end if

if rucne=true and aktiv=true then
provruc=true
else
provruc=false
end if

if rucne=false and aktiv=true then
provaut=true
else
provaut=false
end if

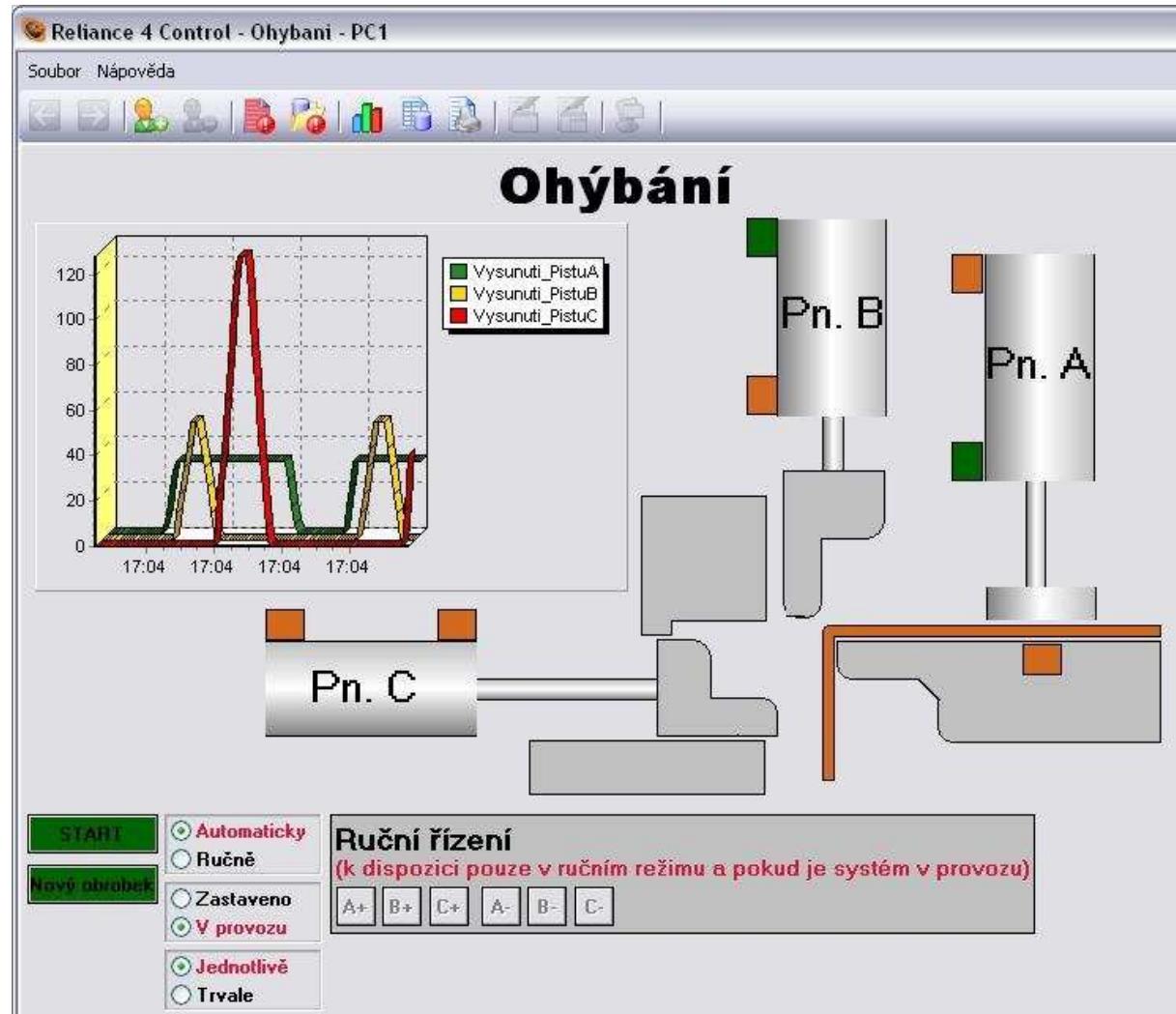
RTag.SetTagValue "System", "Vysunuti_PistuA" , vpa
RTag.SetTagValue "System", "Vysunuti_PistuB" , vpb
RTag.SetTagValue "System", "Vysunuti_PistuC" , vpc
RTag.SetTagValue "OPC1", "START" , start

```

```

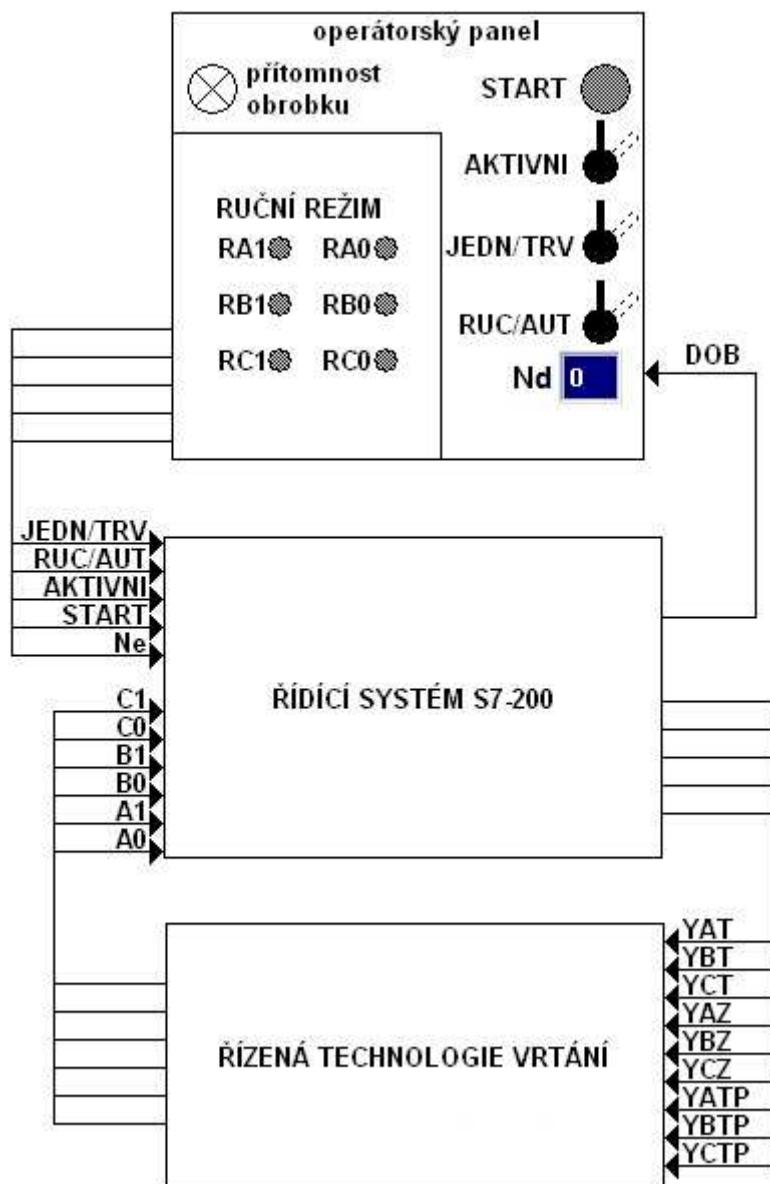
RTag.SetValue "System", "Start", start
RTag.SetValue "System", "Novy_obrobek", novy
RTag.SetValue "System", "Obrobek_pripaven", obp
RTag.SetValue "OPC1", "RA", rucne
RTag.SetValue "OPC1", "DOB", obp
RTag.SetValue "OPC1", "AKTIVNI", aktiv
RTag.SetValue "OPC1", "A0", a0
RTag.SetValue "OPC1", "A1", a1
RTag.SetValue "OPC1", "B0", b0
RTag.SetValue "OPC1", "B1", b1
RTag.SetValue "OPC1", "C0", c0
RTag.SetValue "OPC1", "C1", c1
RTag.SetValue "OPC1", "TRV", trv
RTag.SetValue "System", "ProvRuc", provruc
RTag.SetValue "System", "Ob1", ob1
RTag.SetValue "System", "Ob2", ob2
RTag.SetValue "System", "Ob3", ob3

```



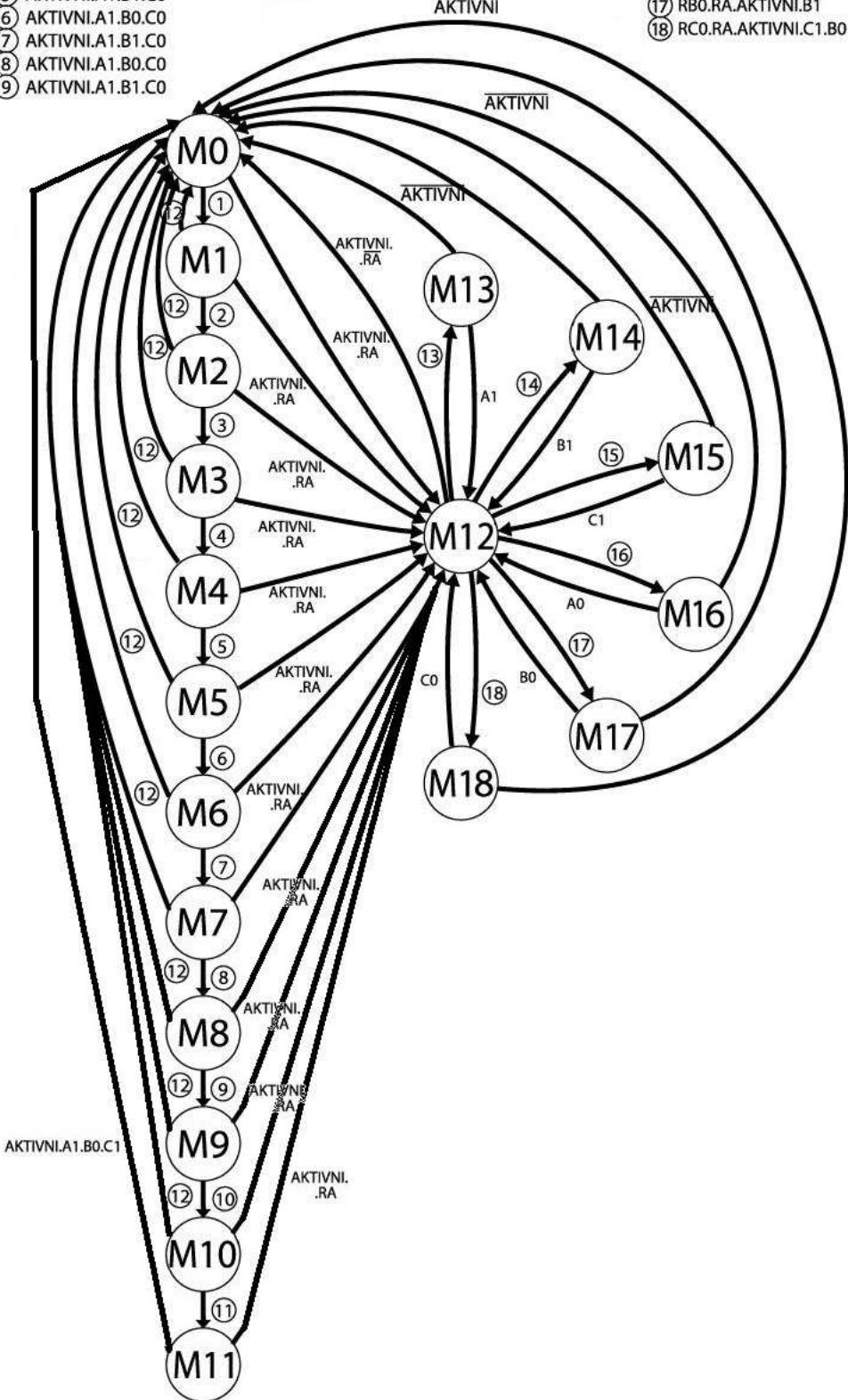
C8 – Vizualizační okno úlohy Ohýbání v runtime režimu

## Úloha D – Přípravek pro zalisování

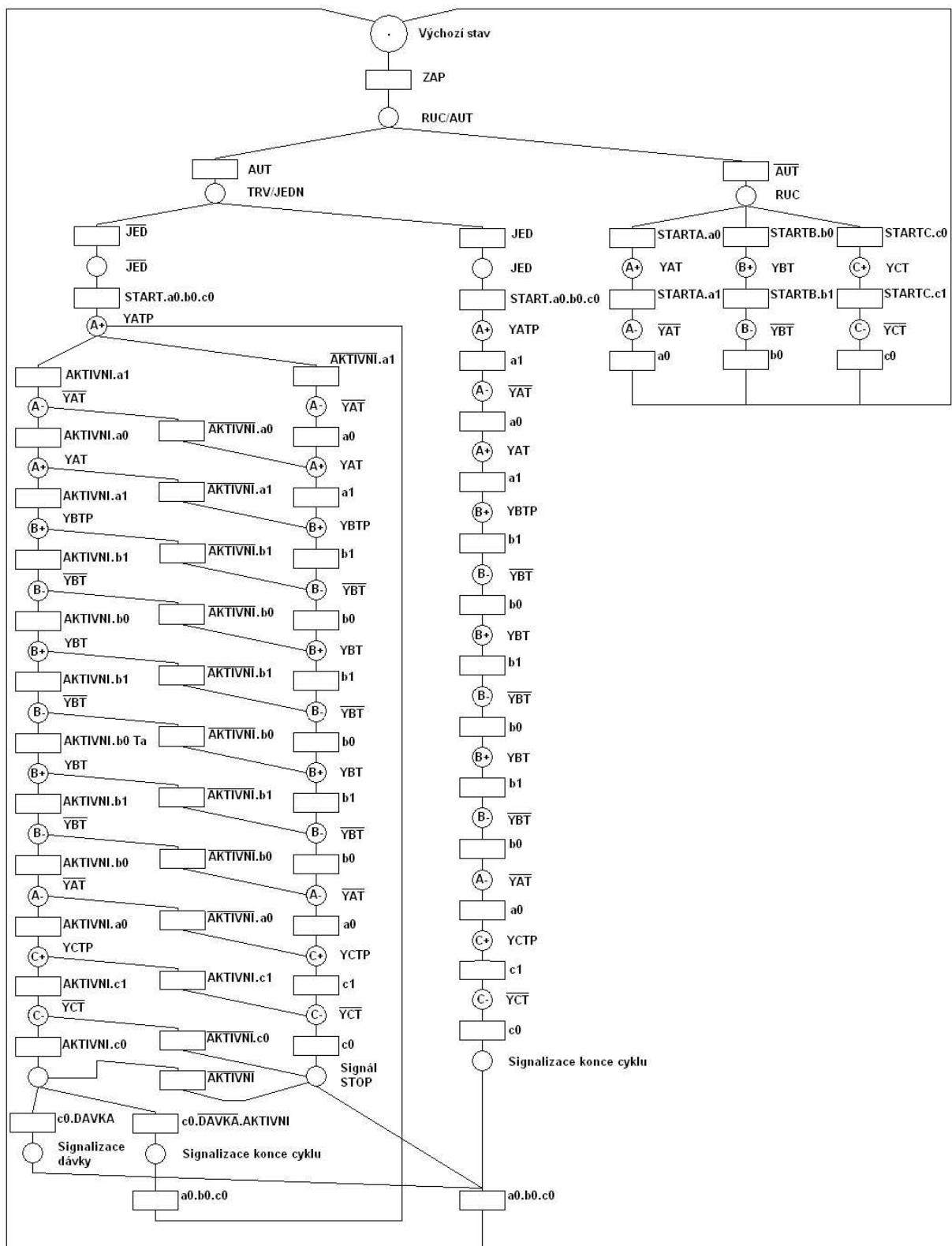


D1 – Blokové schéma řízeného a řídícího systému s operátororským panelem

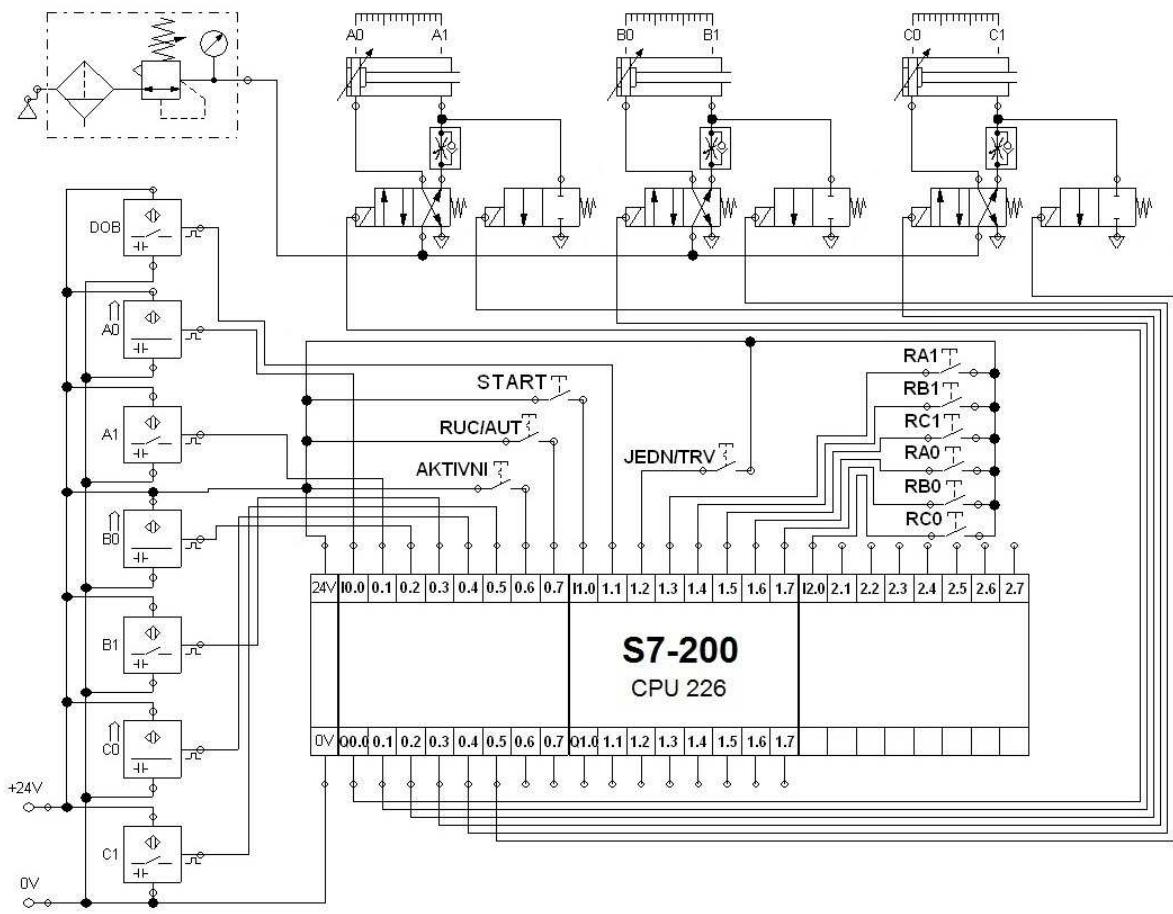
- |                                    |                       |                           |
|------------------------------------|-----------------------|---------------------------|
| (1) AKTIVNI.START.TRV.DOB.A0.B0.CO | (10) AKTIVNI.A1.B0.CO | (13) RA1.RA.AKTIVNI.A0.B0 |
| (2) AKTIVNI.A1.B0.CO               | (11) AKTIVNI.A0.B0.CO | (14) RB1.RA.AKTIVNI.B0    |
| (3) AKTIVNI.A0.B0.CO               | (12) AKTIVNI          | (15) RC1.RA.AKTIVNI.B0.CO |
| (4) AKTIVNI.A1.B0.CO               |                       | (16) RA0.RA.AKTIVNI.A1.B0 |
| (5) AKTIVNI.A1.B1.CO               |                       | (17) RB0.RA.AKTIVNI.B1    |
| (6) AKTIVNI.A1.B0.CO               |                       | (18) RC0.RA.AKTIVNI.C1.B0 |
| (7) AKTIVNI.A1.B1.CO               |                       |                           |
| (8) AKTIVNI.A1.B0.CO               |                       |                           |
| (9) AKTIVNI.A1.B1.CO               |                       |                           |



D2 – Stavový diagram



D3 – Petriho sít'



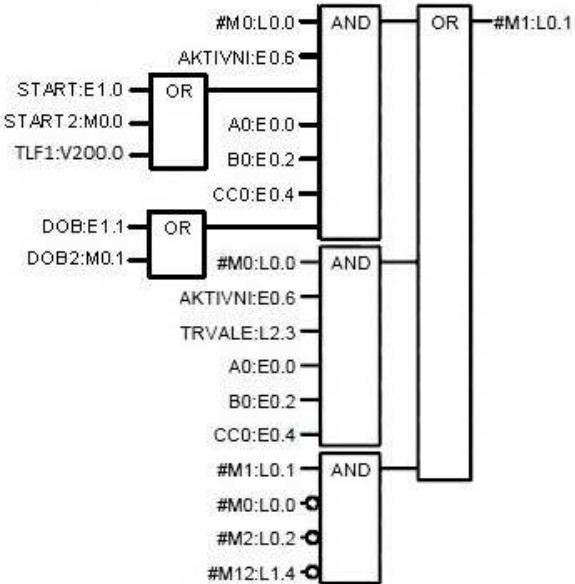
D4 – Schéma zapojení automatu, senzorů a pneumomotorů

ZapisovaniGoj / MAIN (OB1)

Block: MAIN  
 Author:  
 Created: 08/04/2010 13:44:34  
 Last Modified: 08/06/2010 11:44:26

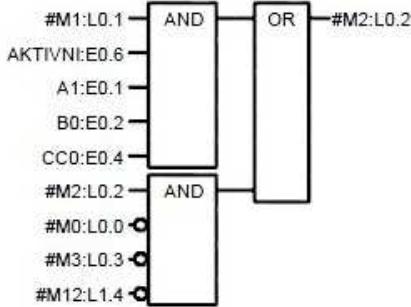
	Symbol	Var Type	Data Type	Comment
L0.0	M0	TEMP	BOOL	
L0.1	M1	TEMP	BOOL	
L0.2	M2	TEMP	BOOL	
L0.3	M3	TEMP	BOOL	
L0.4	M4	TEMP	BOOL	
L0.5	M5	TEMP	BOOL	
L0.6	M6	TEMP	BOOL	
L0.7	M7	TEMP	BOOL	
L1.0	M8	TEMP	BOOL	
L1.1	M9	TEMP	BOOL	
L1.2	M10	TEMP	BOOL	
L1.3	M11	TEMP	BOOL	
L1.4	M12	TEMP	BOOL	
L1.5	M13	TEMP	BOOL	
L1.6	M14	TEMP	BOOL	
L1.7	M15	TEMP	BOOL	
L2.0	M16	TEMP	BOOL	
L2.1	M17	TEMP	BOOL	
L2.2	M18	TEMP	BOOL	
L2.3	TRVALE	TEMP	BOOL	
L2.4	P	TEMP	BOOL	

Network 2



Symbol	Address	Comment
A0	E0.0	
AKTIVNI	E0.6	
B0	E0.2	
CC0	E0.4	
DOB	E1.1	
START	E1.0	

Network 3

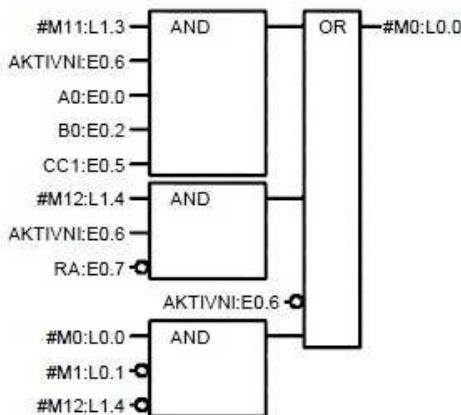


Symbol	Address	Comment
A1	E0.1	
AKTIVNI	E0.6	
B0	E0.2	
CC0	E0.4	

PROGRAM COMMENTS:

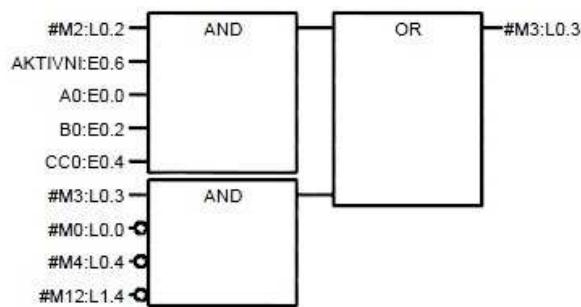
Network 1      Network Title

Network Comment



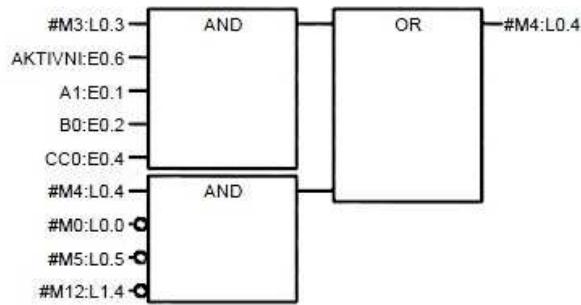
Symbol	Address	Comment
A0	E0.0	
AKTIVNI	E0.6	
B0	E0.2	
CC1	E0.5	
RA	E0.7	

Network 4



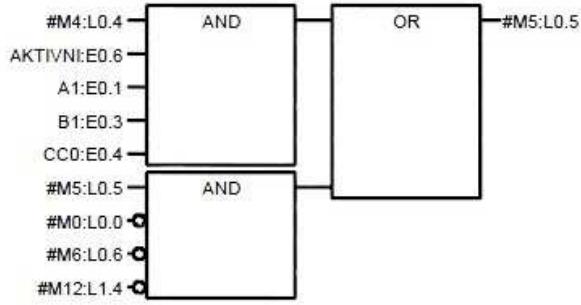
Symbol	Address	Comment
A0	E0.0	
AKTIVNI	E0.6	
B0	E0.2	
CC0	E0.4	

Network 5



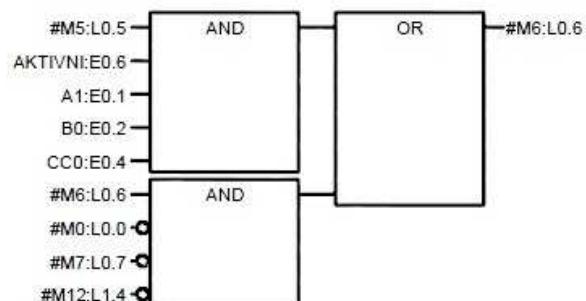
Symbol	Address	Comment
A1	E0.1	
AKTIVNI	E0.6	
B0	E0.2	
CC0	E0.4	

Network 6



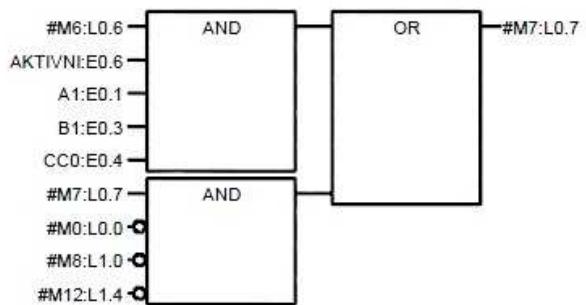
Symbol	Address	Comment
A1	E0.1	
AKTIVNI	E0.6	
B1	E0.3	
CC0	E0.4	

Network 7



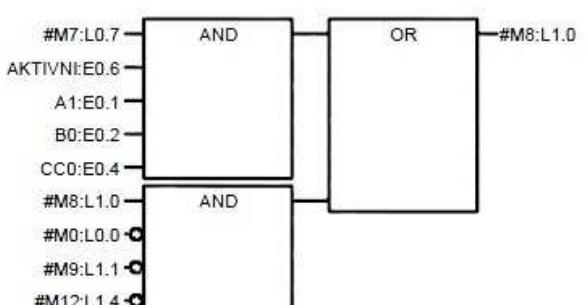
Symbol	Address	Comment
A1	E0.1	
AKTIVNI	E0.6	
B0	E0.2	
CC0	E0.4	

Network 8



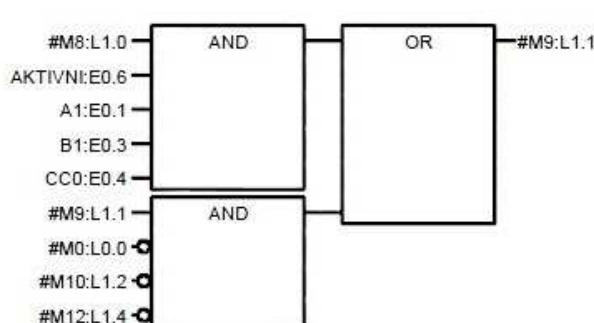
Symbol	Address	Comment
A1	E0.1	
AKTIVNI	E0.6	
B1	E0.3	
CC0	E0.4	

Network 9



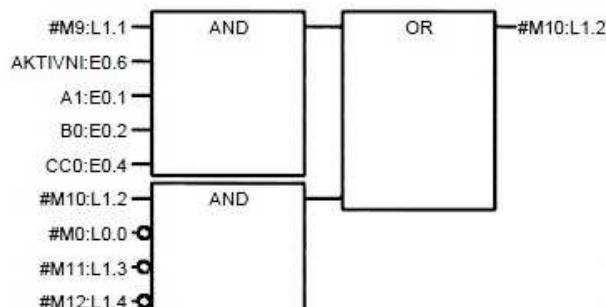
Symbol	Address	Comment
A1	E0.1	
AKTIVNI	E0.6	
B0	E0.2	
CC0	E0.4	

Network 10



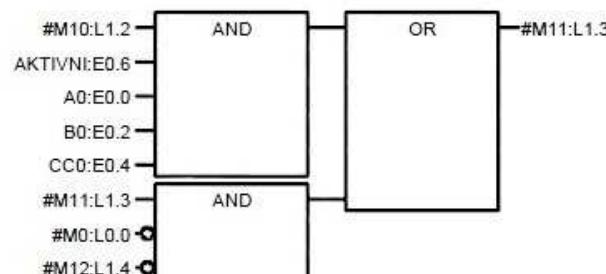
Symbol	Address	Comment
A1	E0.1	
AKTIVNI	E0.6	
B1	E0.3	
CC0	E0.4	

Network 11



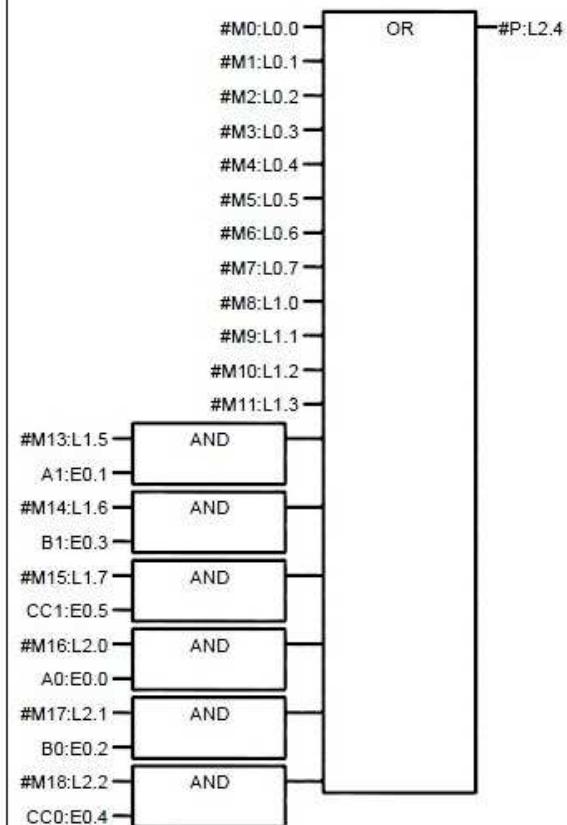
Symbol	Address	Comment
A1	E0.1	
AKTIVNI	E0.6	
B0	E0.2	
CC0	E0.4	

Network 12



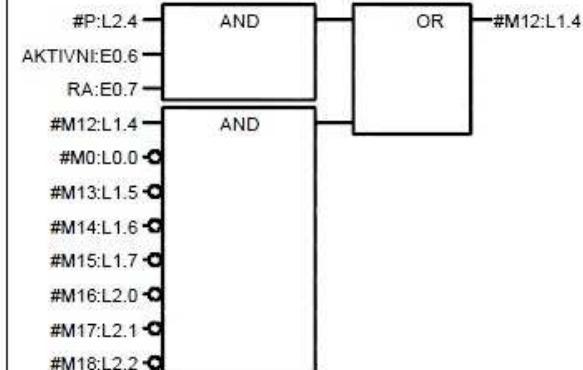
Symbol	Address	Comment
A0	E0.0	
AKTIVNI	E0.6	
B0	E0.2	
CC0	E0.4	

Network 13



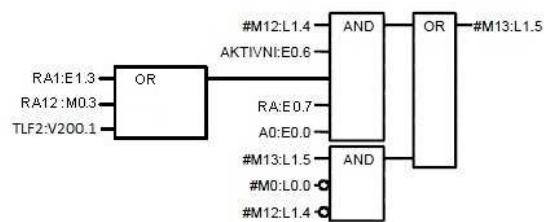
Symbol	Address	Comment
A0	E0.0	
A1	E0.1	
B0	E0.2	
B1	E0.3	
CC0	E0.4	
CC1	E0.5	

Network 14



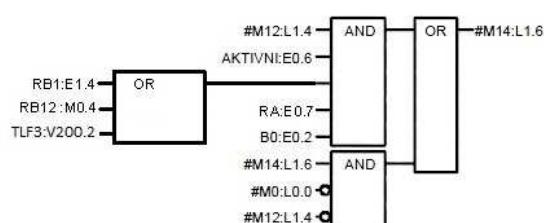
Symbol	Address	Comment
AKTIVNI	E0.6	
RA	E0.7	

Network 15



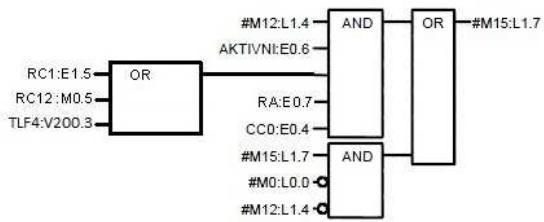
Symbol	Address	Comment
A0	E0.0	
AKTIVNI	E0.6	
RA	E0.7	
RA1	E1.3	
RA12	M0.3	

Network 16



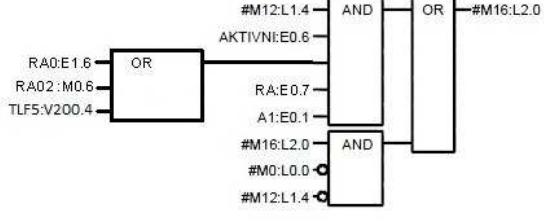
Symbol	Address	Comment
AKTIVNI	E0.6	
B0	E0.2	
RA	E0.7	
RB1	E1.4	
RB12	M0.4	

Network 17



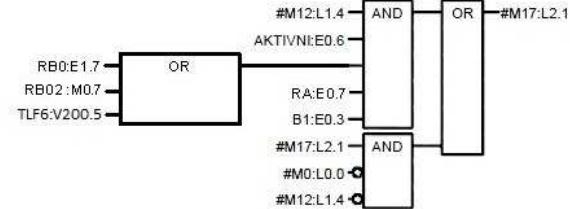
Symbol	Address	Comment
AKTIVNI	E0.6	
CC0	E0.4	
RA	E0.7	
RC1	E1.5	
RC12	M0.5	

Network 18



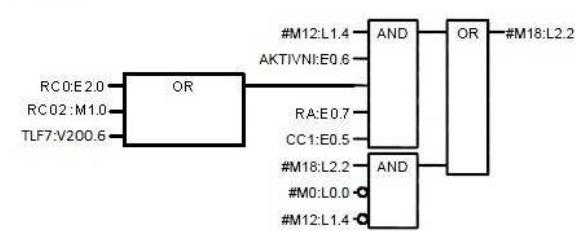
Symbol	Address	Comment
A1	E0.1	
AKTIVNI	E0.6	
RA	E0.7	
RA0	E1.6	
RA02	M0.6	

Network 19



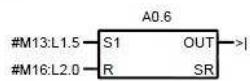
Symbol	Address	Comment
AKTIVNI	E0.6	
B1	E0.3	
RA	E0.7	
RB0	E1.7	
RB02	M0.7	

Network 20

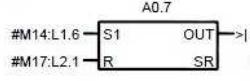


Symbol	Address	Comment
AKTIVNI	E0.6	
CC1	E0.5	
RA	E0.7	
RC0	E2.0	
RC02	M1.0	

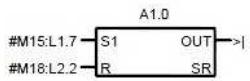
Network 21



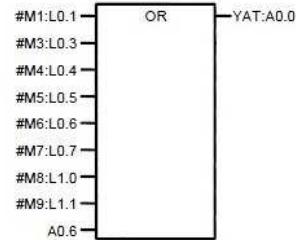
Network 22



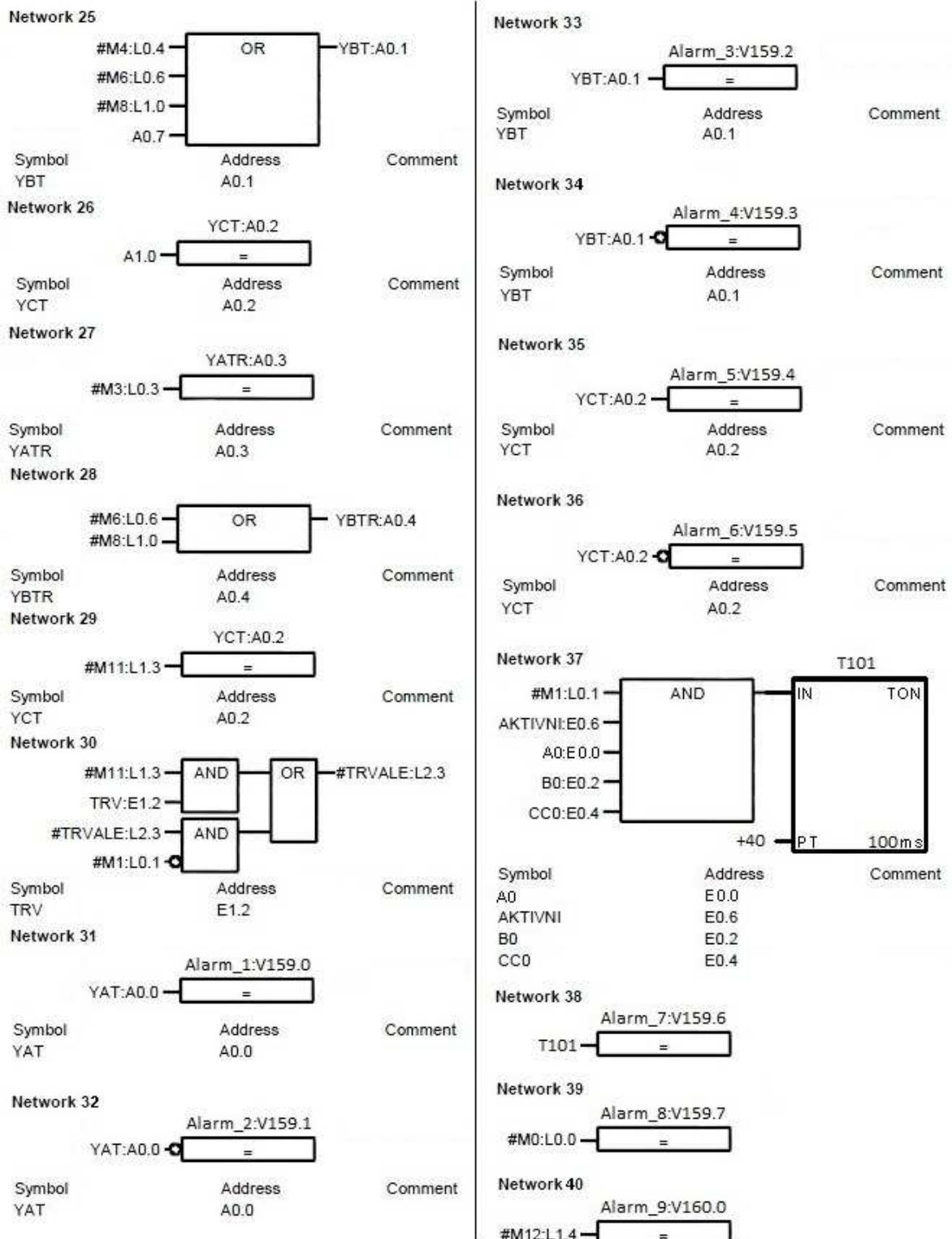
Network 23



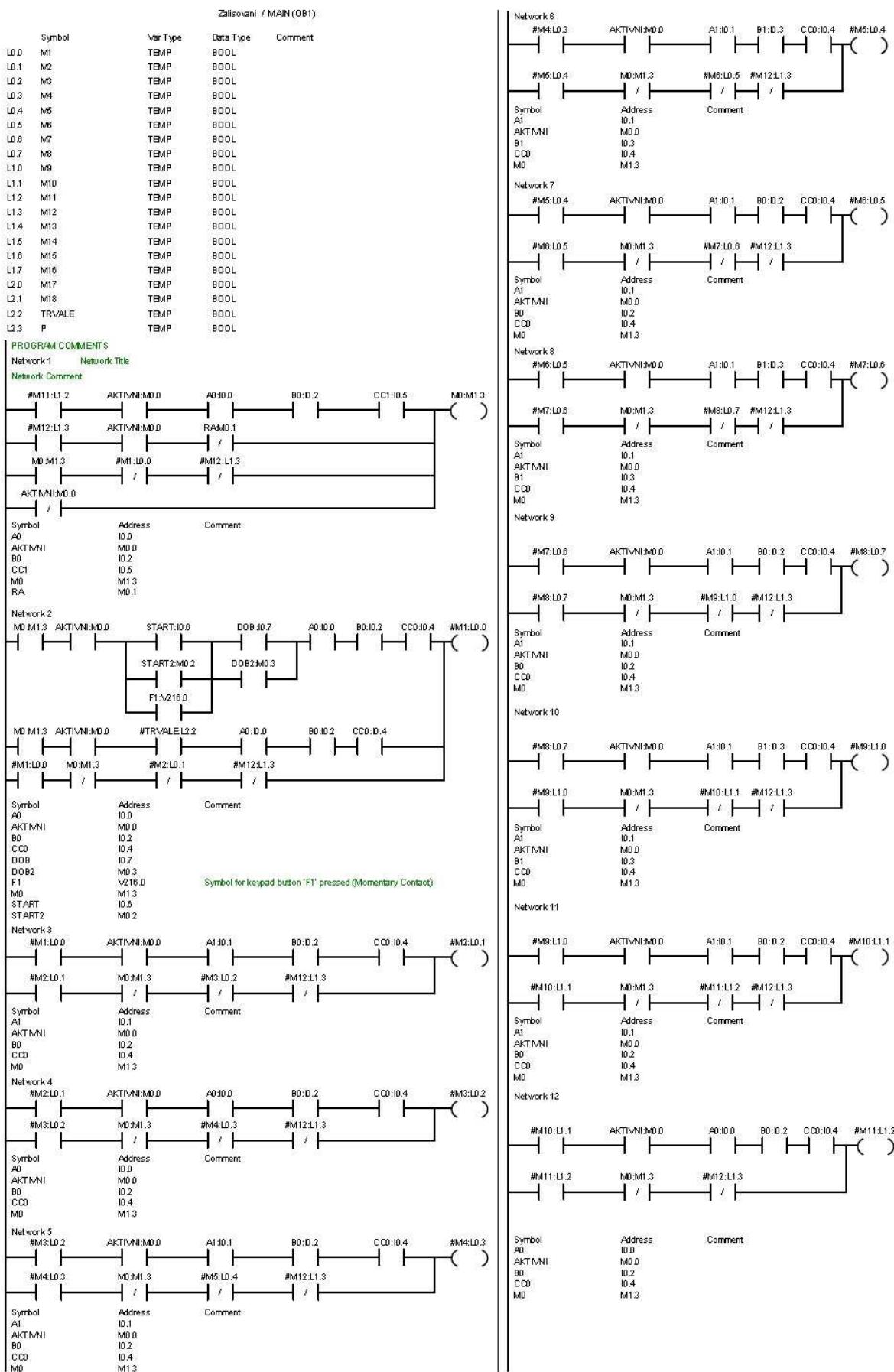
Network 24



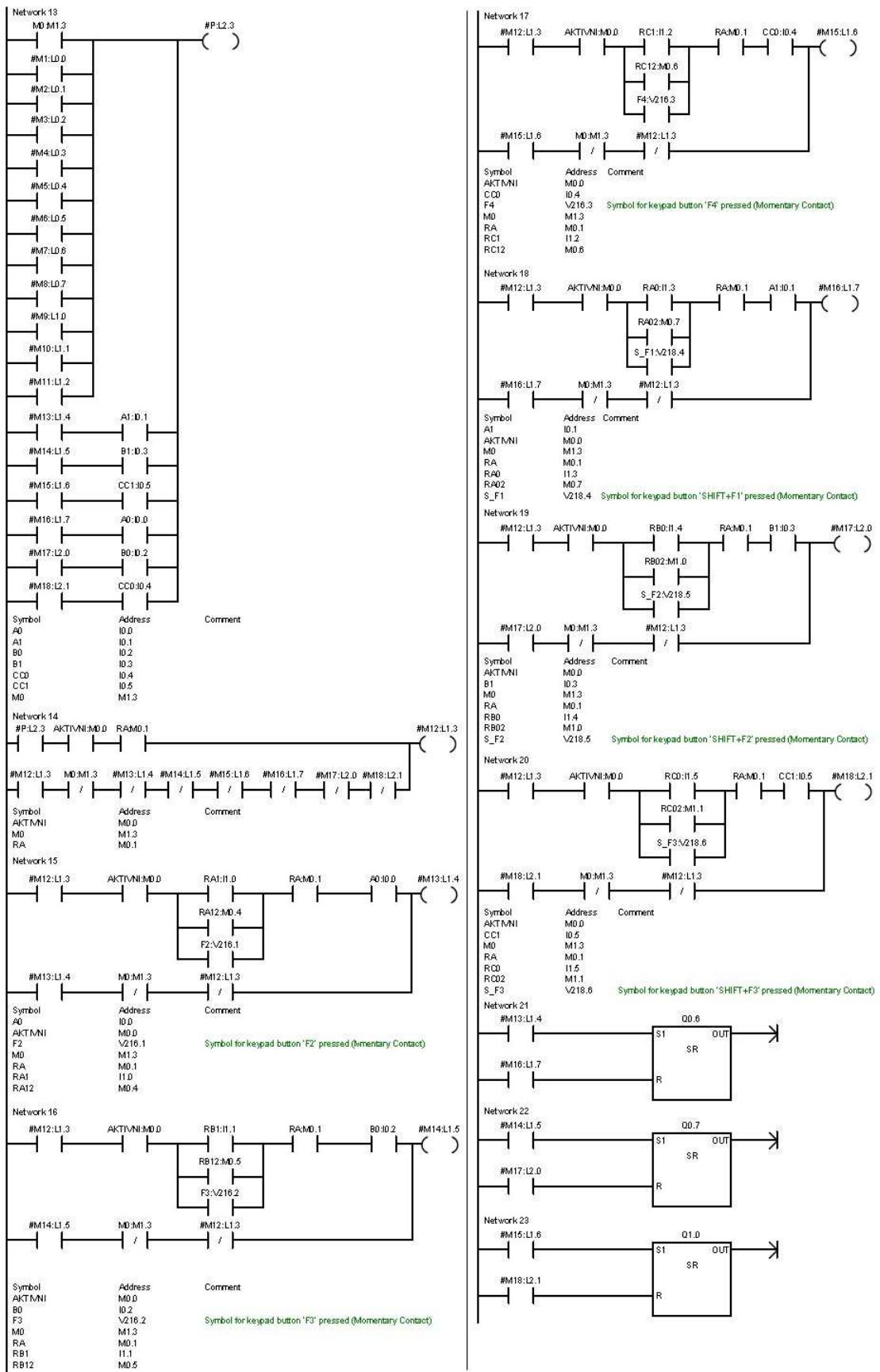
Symbol	Address	Comment
YAT	A0.0	

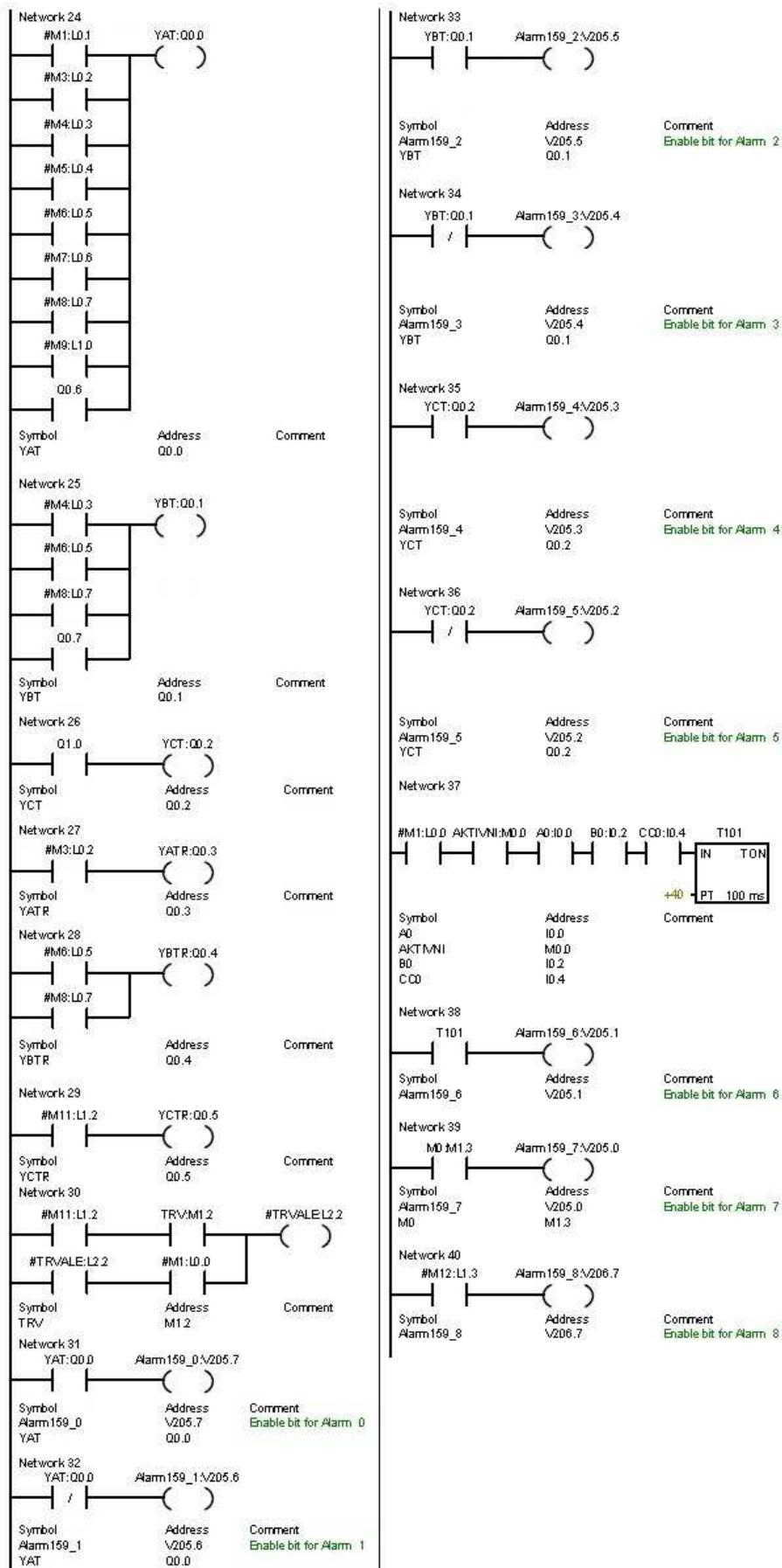


D5 – Algoritmus v grafickém jazyku FBD v prostředí STEP7 5/5



D6 – Algoritmus v grafickém jazyku LAD v prostředí STEP7 1/3





D6 – Algoritmus v grafickém jazyku LAD v prostředí STEP7 3/3

## D7 – Výpis skriptu z prostředí Reliance

```
rem ****
rem Reliance 4
rem Projekt: Zalisovani
rem Uživatel: Stepan
rem Datum: 2.9.2010
rem Čas: 13:38:26
rem ****
```

### Option Explicit

```
Dim aktiv, vpa, vpb, vpc, k1y, k2x, start, novy, obp, rucne, p10, p10p, p11, p20, p20p, p21,
p30p, p31, a0, a1, b0, b1, c0, c1, trv, provruc, provaut, count1, count2, m0
```

### 'Nacteni promennych

```
vpa = RTag.GetTagValue("System", "Vysunuti_PistuA")
vpb = RTag.GetTagValue("System", "Vysunuti_PistuB")
vpc = RTag.GetTagValue("System", "Vysunuti_PistuC")
p10 = RTag.GetTagValue("OPC1", "YAT")
p10p = RTag.GetTagValue("OPC1", "YATR")
p11 = RTag.GetTagValue("OPC1", "YAZ")
p20 = RTag.GetTagValue("OPC1", "YBT")
p20p = RTag.GetTagValue("OPC1", "YBTR")
p21 = RTag.GetTagValue("OPC1", "YBZ")
p30p = RTag.GetTagValue("OPC1", "YCTR")
p31 = RTag.GetTagValue("OPC1", "YCZ")
a0 = RTag.GetTagValue("System", "PAD")
a1 = RTag.GetTagValue("System", "PAH")
b0 = RTag.GetTagValue("System", "PBD")
b1 = RTag.GetTagValue("System", "PBH")
c0 = RTag.GetTagValue("System", "PCD")
c1 = RTag.GetTagValue("System", "PCH")
k1y = RTag.GetTagValue("System", "k1y")
k2x = RTag.GetTagValue("System", "k2x")
start = RTag.GetTagValue("System", "Start")
novy = RTag.GetTagValue("System", "Novy_obrobek")
obp = RTag.GetTagValue("System", "Obrobek_pripraven")
rucne = RTag.GetTagValue("System", "Rucne")
aktiv = RTag.GetTagValue("System", "Aktivni")
trv = RTag.GetTagValue("System", "Trvale")
provruc = RTag.GetTagValue("System", "ProvRuc")
provaut = RTag.GetTagValue("System", "ProvAut")
count1 = RTag.GetTagValue("System", "Count1")
count2 = RTag.GetTagValue("System", "Count2")
m0 = RTag.GetTagValue("OPC1", "M0")
```

```
vpb=vpb*(-1)
k2x=k2x*(-1)
```

```
if m0=true then
```

```

count1=0
count2=0
end if

if trv=true then
novy=true
end if

if novy=true and vpa=0 and vpb=0 and vpc=0 and rucne=false then
obp=true
end if

'posuny motoru a obrobku
if (p10=true) then
if vpa<60 then
vpa=vpa+20
end if
if vpa=60 then
count1=count1+1
p10=false
end if
end if

if (p10p=true) then
if vpa<60 then
vpa=vpa+5
end if
if vpa=60 then
count1=count1+1
p10p=false
end if
end if

if (p11=true) then
if vpa>0 then
vpa=vpa-20
end if
if vpa=0 then
p11=false
end if
end if

if (p20=true) then
if vpb<60 then
vpb=vpb+20
count2=count2+1
end if
if vpb>60 then
p20=false
end if

```

```

end if

if (p20p=true) then
if vpb<60 then
vpb=vpb+5
count2=count2+1
end if
if vpb>60 then
p20p=false
end if
end if

if (p21=true) then
if vpb>0 then
vpb=vpb-20
end if
if vpb=0 then
p21=false
end if
end if

if (p30p=true) then
if vpc<40 then
vpc=vpc+4
end if
if vpc=40 then
p30p=false
end if
end if

if (p31=true) then
if trv=false then
novy=false
end if
if vpc>0 then
vpc=vpc-10
obp=false
else
p31=false
end if
end if

if p10p=true then
k1y=vpa-4
elseif count1=0 then
k1y=0
else
k1y=57
end if

```

```

if p20p=true then
k2x=vpb-6
elseif count2=0 then
k2x=0
else
k2x=54
end if

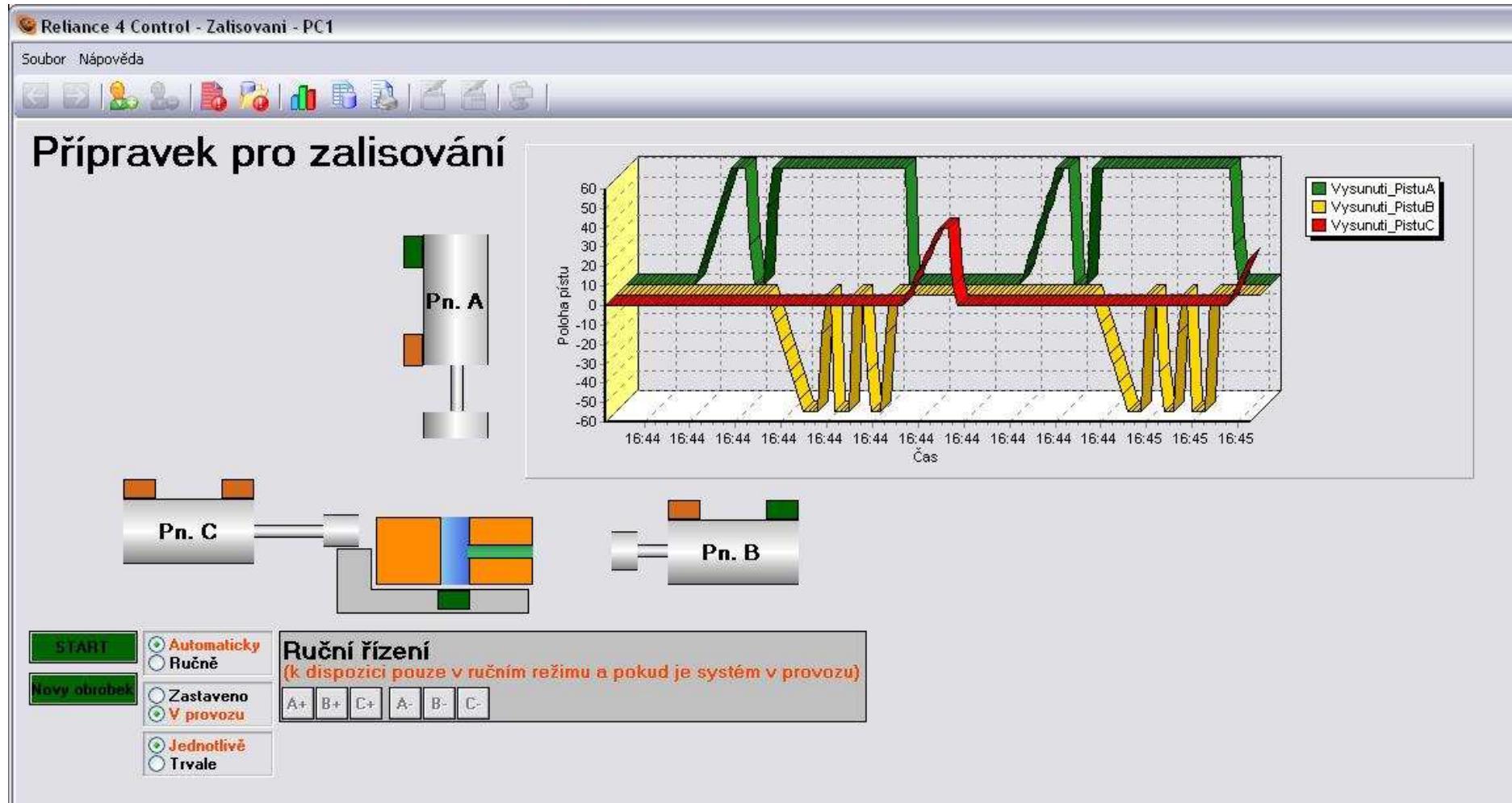
if rucne=true and aktiv=true then
provruc=true
obp=false
else
provruc=false
end if

if rucne=false and aktiv=true then
provaut=true
else
provaut=false
end if

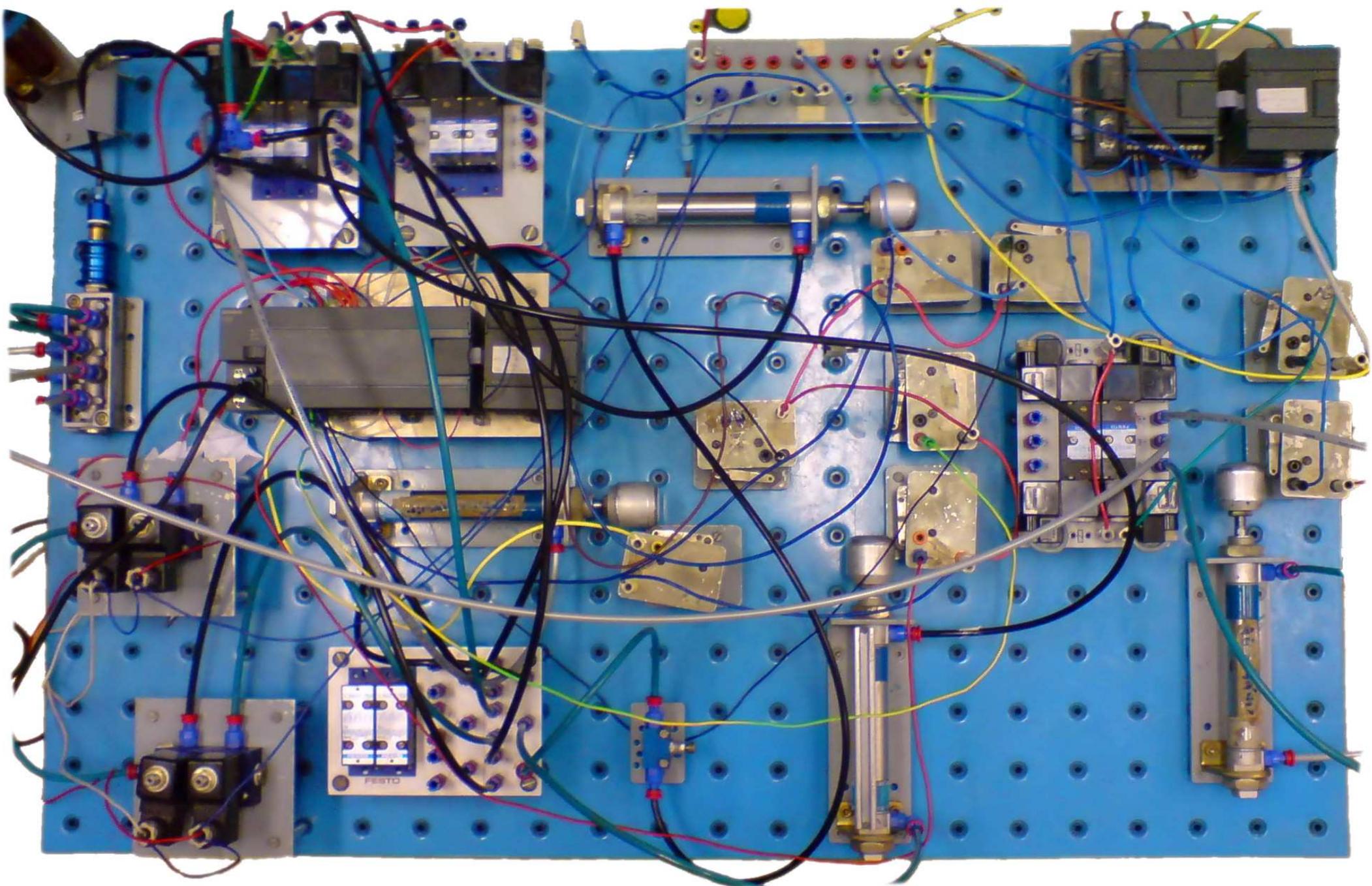
'Ulozeni promennych
vpb=vpb*(-1)
k2x=k2x*(-1)

RTag.SetTagValue "System", "Vysunuti_PistuA" , vpa
RTag.SetTagValue "System", "Vysunuti_PistuB" , vpb
RTag.SetTagValue "System", "Vysunuti_PistuC" , vpc
RTag.SetTagValue "System", "k1y" , k1y
RTag.SetTagValue "System", "k2x" , k2x
RTag.SetTagValue "OPC1", "START" , start
RTag.SetTagValue "System", "Start" , start
RTag.SetTagValue "System", "Novy_obrobek" , novy
RTag.SetTagValue "System", "Obrobek_pripraven" , obp
RTag.SetTagValue "OPC1", "RA" , rucne
RTag.SetTagValue "OPC1", "DOB" , obp
RTag.SetTagValue "OPC1", "AKTIVNI" , aktiv
RTag.SetTagValue "OPC1", "A0" , a0
RTag.SetTagValue "OPC1", "A1" , a1
RTag.SetTagValue "OPC1", "B0" , b0
RTag.SetTagValue "OPC1", "B1" , b1
RTag.SetTagValue "OPC1", "C0" , c0
RTag.SetTagValue "OPC1", "C1" , c1
RTag.SetTagValue "OPC1", "TRV" , trv
RTag.SetTagValue "System", "ProvRuc" , provruc
RTag.SetTagValue "System", "ProvAut" , provaut
RTag.SetTagValue "System", "Count1" , count1
RTag.SetTagValue "System", "Count2" , count2

```



D8 – Vizualizační okno úlohy Zalisování v runtime režimu



D9 – Úloha Zalisování sestavená z prvků FESTO v laboratoři