

**FB64 - <offline>**

"DoFastMAC" Do fast commands to MAC  
**Nom :** FastMac **Famille :** MAC  
**Auteur :** arp **Version :** 1.0  
**Version de bloc :** 2  
**Horodatage Code :** 17/07/2006 01:11:05  
**Interface :** 07/06/2006 13:52:56  
**Longueur (bloc/code /données locales) :** 00230 00112 00002

Nom	Type de données	Adresse	Valeur initiale	Commentaire
IN		0.0		
FastCmd	Int	0.0	0	Command number for DoFastCommand of a MAC motor
NodeAdr	Int	2.0	0	Start address of the servo node wanted
OUT		0.0		
IN_OUT		0.0		
STAT		0.0		
TEMP		0.0		
LastCmd	Int	0.0		Temporary for last command

**Bloc : FB64 DoFastMac command**

Réseau : 1 relativ functionality

Create indirect address pointer

```

U      "FastMacSent"          M99.2          -- FlexMa
                                c command is sent
U      "FastMacSent"          M99.2          -- FlexMa
                                c command is sent
SPB   slu
L      #NodeAdr
LAR1                                     //load AR1 from accumulator

```

Réseau : 2 Test for repeating command

If repeating command, it should be informed the MAC motor in a different way

```

L      AB [AR1,P#6.0] //read last sent command
L      B#16#7F        //remove bit 7 because it is a flag
UW
T      #LastCmd       //save last sent command to flexmac
L      #LastCmd       //Compare LastCommand and new FlexMac
L      #FastCmd
<>I
SPB   opr             //if different go to simple cmd sending

```

Réseau : 3          Repeating command therefore Toggle FlexMac bit 7

This network is only for repeating commands

```

U      A [AR1,P#6.7] //statusread of the toggle flag
U      A [AR1,P#6.7] //statusread of the toggle flag
SPB   off           //Flag is on jump to reset part

UN     "AllwaysOff" //read statusread of the togg   M1.7           -- Allway
        e flag      s off bit

S      A [AR1,P#6.7] //set the toggle flag
SPA   slu

off: UN     "AllwaysOff" //read statusread of the togg   M1.7           -- Allway
        e flag      s off bit

R      A [AR1,P#6.7] //reset the toggle flag
SPA   slu

```

Réseau : 4          Sending new command

Depending on type of parameter, data is transferred to address

//Simple version of command sending starts here

```

opr:  L      #FastCmd
      T      AB [AR1,P#6.0] //Load Direct register with command

```

Réseau : 5          Transfer result and reset calling bit

Respond from servo, comes after a while when read toggle in command status is equal to read toggle in command.

```

slu: UN     "AllwaysOff"           M1.7           -- Allway
        S      "FastMacSent"      M99.2          -- FlexMa
        c command is sent

//Testing for accepted command
L      AB [AR1,P#6.0]
L      EB [AR1,P#6.0]
<>I
SPB   wait

//function end
U      "DoFastMacSub"             M0.2           -- Activa
        te sub

R      "DoFastMacSub" //reset call bit M0.2           -- Activa
        te sub

R      "FastMacSent" //reset routine active bit M99.2          -- FlexMa
        c command is sent

wait: U      "Dummy"              M1.0
      =      "Dummy"              M1.0
      BE

```