mycobit instruction set

	Get/Set Memory 'low' nibble	Disp.Row =	Wait	Relative Jump -	A =	= A	A =	A =	Select Memory Page	Jump to address in page	Dec C and Jump if not 0	Dec D and Jump if not 0	Skip if	Call	Ret	Get/Set Memory 'high' nibble
Inst. Data	0	1	2	3	4	5	6	7	8	9	Α	В	С	D	E	F
0	A = C (Page) + B (Byte) 'low' nibble	0	1 ms	0	0	Row = A	A = Row		0	0	0	0		0		A = C (Page) + B (Byte) 'high' nibble
	C (Page) + B (Byte) 'low'		•			5 4	. 5						5			C (Page) + B (Byte) 'high'
1	nibble = A	1	2 ms	1	1	B = A	A = B	A = A + 1	1	1	1	1	A > B	1		nibble = A
2		2	5 ms	2	2	C = A	A = C	A = A - 1	2	2	2	2	A < B	2		
3		3	10 ms	3	3	D = A	A = D	A = A + B	3	3	3	3	A == B	3		
4		4	20 ms	4	4	Disp.Row = A	A = Din	A = A - B	4	4	4	4	Din.0 == 1	4		
5		5	50 ms	5	5	Disp.Row0 = A.0	A = Din.0	A = A * B	5	5	5	5	Din.1 == 1	5		
6		6	100 ms	6	6	Disp.Row1 = A.0	A = Din.1	A = A / B	6	6	6	6	Din.2 == 1	6		
7		7	200 ms	7	7	Disp.Row2 = A.0	A = Din.2	A = A and B	7	7	7	7	Din.3 == 1	7		
8		8	500 ms	8	8	Disp.Row3 = A.0	A = Din.3	A = A or B	8	8	8	8	Din.0 == 0	8		
9		9	1 s	9	9	PWM = A	A = AD1	A = A xor B	9	9	9	9	Din.1 == 0	9		
Α		Α	2 s	Α	Α	Dout.3 = A.3	A = AD2	A = not A	Α	Α	Α	Α	Din.2 == 0	Α		
В		В	5 s	В	В	Dout.2 = A.2			В	В	В	В	Din.3 == 0	В		
С		С	10 s	С	С	Dout.1 = A.1			С	С	С	С	S1 == 0	С		
D		D	20 s	D	D	Dout.0 = A.0			D	D	D	D	S2 == 0	D		
E		E	30 s	E	Е				Е	E	E	Е	S1 == 1	Е		
F		F	60 s	F	F		Save		F	F	F	F	S2 == 1	F		

PWM Pin 0

mycobit I/O Pin mapping to micro:bit display and pins

Disp	micro	Matrix Disp	lay	
Addr.0	Row0.3	Row0.2	Row0.1	Row0.0
Addr.1	Row1.3	Row1.2	Row1.1	Row1.0
Addr.2	Row2.3	Row2.2	Row2.1	Row2.0
Addr.3	Row3.3	Row3.2	Row3.1	Row3.0
	Page.3	Page.2	Page.1	Page.0

	Dout	digital outputs / analog I/O				
	Dout.3	Dout.2	Dout.1	Dout.0		
Г	Pin 1*	Pin 2*	Pin 8	Pin 12		

*Pin 1 or Pin 2	can only be us	ed as an input or an output, not both
AD1	AD2	
Pin 1*	Pin 2*	

Din	digital inputs (with internal pull ups)					
Din.3	Din.2	Din.1	Din.0			
Pin 13	Pin 14	Pin 15	Pin 16			

S1	S2	Reset
Button A	Button B	Reset

Differences to MyCo/TSP highlighted in red