Open the file	PASD_AsmDebugDemo	from the folder where PASD.zip was unpacked
with the. 🌇 Pro	opeller Tool	



If you don't know the portnumber press F7. The following window will apear



mentioning the portnumber.

🚳 P	ASD				
File	<u>D</u> ebug	⊆OM	He	lp	
BP	Addr	Code		Source	
-			_		
-			_		
-					
H			_		
-					
-			_		
L.					
-			_		
			_		
•					
				Prove FO ha annual	_
				Press F2 to connect	11

next step is to setup the comport

Enter the COM-Port-number

	n PASD						
	File	Debug	COM	Help			
	BP	Addr	Co	m Port			
	-		Col	m Open/Close			
Соп	nPort						
W	Which COM connects to the Propeller?						
3	1						
		r					
	OK						

The propellertool must be still opened with the file that should be debugged.

Press F11. This will do several things automatically for you.

Switching back to the propellertool. Loading the code into the propeller-RAM

Copying the PASM-code into the PASD-window

8	PASD - PASD_AsmDebu	gDemo	The PASD-demo-code does switch on/off some LEDs connected
File	Debug COM Help		to IO-PINS. To see the changes on the IO-pins switch on the
B	P Run	F5	PIN-VIEwei-Willdow
Ē	Stop	F6	
١F	Step	F8	
١F	Step over	F7	
١b	Set Address		
ĪĒ	Toggle Breakpoint	F9	P0 O P8 O P16 O P24 O
	Toggle Watchpoint	^F9	
	Clear all Breakpoints		P3 O P11 O P19 O P27 O
]		P4 O P12 O P20 O P28 O P5 O P13 O P21 O P29 O
	COG RAM Viewer		P6 O P14 O P22 O P30 •
	Main RAM Viewer		
ΙĒ	Pin Viewer		input. L 🗧 H 🖨 🖉 Output: L 🗧 H 🖕

Now if the PASD-mainwindow and the Pin Viewer window are active press F8 to single-step through the code. This means each time you press F8 one PASM-command is executed.

After the first PASM-command is executed

00C A0BFEC20	∶init	mov	dira,LEDS	' Co	onfigure LED	s as out	puts (1)
The IO-pins 16- this through the	23 are configured as one blue color	outputs.	You can recogni	ZE P0 P1 P2 P3 P4 P5 P6 P7 Inp	Pin Viewer P8 P9 P10 P10 P11 P12 P12 P13 P14 P15 Utt L H +	P16 0 P17 0 P18 0 P19 0 P20 0 P21 0 P22 0 P22 0 P23 0 Output: L	■ × P24 P25 P26 P27 P28 P29 P30 P31
□ 00C A0BFEC20	:init	mov	dira <u>LEDS</u>	' Co	onfigure LED	s as out	puts (1)

LEDS is a a preset long in the COG-RAM wichi can be found at the end of the PASM-code LEDS long \$00FF_0001 'Bits 16-23 are PropDemo board leds. Bit 0 is Hydra LED.

The Hex-number \$00FF 0001 corresponds with the IO-pins 16-23 the "FF"

and IO-pin 0 (the "1")

This means the command "MOV" moves the value of COG-RAM labeled with LEDS to the DIRA-register. The command is called mov but the value also stays in the long labeled "LEDS"

 Press F8 until the codeline

 00F 68BFE821
 :led_state_1

 or
 outa,LED_0

 'Turn on LED 0
 (Hydra)

is executed. Now IO-pin P0 is switched to high indicated by the filled circle in the PIN-Viewer.

The command "or" is the logical or.

🚳 P	'in Vie	wer		_ 🗆 🗡		
PO	٠	P8 🜔	P16 🔾	P24 🜔		
P1	0	P9 🔘	P17 🔘	P25 🜔		
P2	\circ	P10 🔘	P18 🔘	P26 🔘		
P3	\circ	P11 🔘	P19 🔘	P27 🔘		
P4	\circ	P12 🜔	P20 🔘	P28 🜔		
P5	\circ	P13 🔘	P21 🔘	P29 븆		
P6	\circ	P14 🔘	P22 🔘	P30 븆		
P7	\circ	P15 ଠ	P23 🔘	P31 븆		
Inp	Input: L 🛑 H 🛑 🛛 Output: L 🛑 H 😜					