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HEX \ from now on numbers are understood as hex. The LINES n print a small GUI, very basic, uses PAGE and CR
: LINE1 ." \ VFXTESTAPP - bit change use PWH / PWL <cr>, or COUNTER, 400 SCOUNTER, SOS , ??? and <cr> " CR ;
: LINE2 ." \ PWHL T3HL T2HL T1HL O3HL O2HL O1HL O0HL I3HL I2HL I1HL IOHL A3HL A2HL A1HL AOHL h/l ??? " CR ;
: LINE3 ." \ PWM T3__T2__T1 O3__O2__O1__O0 I3__I2__I1__I0 A3__A2__A1__A0 " CR ;
: LINE4 ." X t t t o o o o i i i i a a a a " CR ;
: TEST PAGE LINE1 LINE2 LINE3 LINE4 ( LINE5 ) CR ;

VARIABLE PSWI ( PWM,Switches ) VARIABLE OUTP ( OUTP 3_2_1_0 ) VARIABLE IN ( IN 3_2_1_0 ) VARIABLE ANI ( 4 )
9 PSWI ! 0 OUTP ! 3 IN ! F ANI ! \ Preset the Variables

\ Set I1 and/or I0 of the INPUTs, then call AND01, OR01, XOR01, INVERT0
: AND01 IN @ DUP 1 RSHIFT AND 01 AND OUTP ! MBV2 ; : OR01 IN @ DUP 1 RSHIFT OR 01 AND OUTP ! MBV2 ;
: XOR01 IN @ DUP 1 RSHIFT XOR 01 AND OUTP ! MBV2 ; : INVERT0 IN @ INVERT 01 AND OUTP ! MBV2 ;

\ 0 INCLUDE \ 1 HEX \ 2 \ \ 3 : \ 4 ." \ 5 CR \ 6 ; \ 7 TEST
\ 8 Variable \ 9 DUP \ 10 $n \ 11 AND \ 12 IF \ 13 ELSE \ 14 THEN \ 15 LSHIFT
\ 16 SPACE \ 17 DROP \ 18 DV \ 19 @ \ 20 ?DO \ 21 LOOP \ 22 PAGE \ 23 BEGIN
\ 24 1+ \ 25 ! \ 26 MS \ 27 KEY? \ 28 UNTIL \ 29 EMIT \ 30 .S \ 31 .
\ 32 >R \ 33 R> \ 34 ( and ) \ Forth Words used - surprisingly this covers all the words needed

\ MicroProcessor Engineering Limited digital AND IN ( 3 ) not digital
\ 133 Hill Lane, Southampton, SO15 5AF INPUT 33 Data 1 OUTP ( 0 ) used OUTPUT
\ T: +44 (0)23 8063 1441, S: mpe_sfp xx ..xx xx 22 ADD 1 PSWI ( 9 ) now Hello Forth World
\ www.mpeforth.com Token in D_STACK R_Stack VARIABLES MEMORY SCREEN / OTHER - THE FORTH Machine
\ BINARY-HEX 0000-0 0001-1 0011-2 0011-3 0100-4 0101-5 0110-6 0111-7 1000-8 1001-9 1010-A 1011-B 1100-C 1101-D 1110-E 1111-F

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