

Příloha 2

Listů : 6

Ø2 SOUBOR TEST M50 - IQ 151
V JAZYKU BASIC-6

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1 DIMST*(30)
2 REMST*(1)="AB":CALLHEX(3000),PTR(ST*(1)),20
3 AZ=PTR(ST*(5))
10 CLS
20 IM=HEX(7004)
30 SV=HEX(7008)
40 CT=HEX(700C)
50 CE=HEX(7010)
60 ZE=HEX(7014)
70 MK=HEX(7018)
80 ME=HEX(701C)
90 MD=HEX(7020)
100 TT=HEX(7024)
110 IT=HEX(7028)
120 PO=HEX(8000)
130 NU=0
140 ST*(0)="A0REAU;"
150 ST*(1)="IN":ST*(2)="C0":ST*(3)="C1":ST*(4)="C2"
160 ST*(5)="F1":ST*(6)="F2":ST*(7)="CL;"
170 ST*(8)="AU":ST*(9)="REMA;"
180 ST*(10)="EE5E":ST*(11)="D05D;"
190 ST*(12)="1S2S3S4S5S;"
191 ST*(13)="1R2R3R4R5R;"
192 ST*(14)="5S;"
193 ST*(15)="5R;"
194 ST*(20)=";"
195 ST*(21)="IC;"
196 ST*(22)="MA;"
291 AY=PTR(ST*(5))
300 PRINT"*****"
310 PRINT"          Testy MEDA 50          *"
320 PRINT"*****"
330 PRINT
340 PRINT" 1.  Test prevodu DA-AD"
350 PRINT" 2.  Test DA-DVM"
360 PRINT" 3.  Test analogovych prvku"
370 PRINT" 4.  Test adresare"
380 PRINT" 5.  Test preruseni"
390 PRINT" 6.  Test rezimu"
400 PRINT" 7.  Test spinacu a anal.pameti"
499 AX=PTR(ST*(5))
500 INPUT "cislo<0 => print",SE:LP=0:IF SE<0 THEN SE=-SE:LP=1
505 CALLMD,PO,PTR(ST*(0))
510 ON SE GOSUB 10000,11000,12000,13000,13500,14000,15000
520 CALLMD,PO,PTR(ST*(0))
521 CALLMD,PO,PTR(ST*(21))
522 CALLMD,PO,PTR(ST*(22))
599 GOTO10
600 CALLHEX(7014),HEX(8000),34,PTR(H)
1000 CALLHEX(7010),HEX(8000),0,PTR(V)
2000 CALLHEX(7008),HEX(8000),0,PTR(AY),PTR(ER)
3000 CALLHEX(7014),HEX(8000),34,PTR(H)
3010 RETURN
10000 REM TEST PREVODU DA-AD
10010 CLS
10015 PRINT:PRINT"Test prevodu DA-AD"
10020 PRINT:PRINT"VST.HODNOTA  AD  DIFERENCE"
10021 IFLP<>1 THEN 10030
BREAK

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10022 LPRINT"Test prevodu DA-AD"
10023 LPRINT:LPRINT"VST.HODNOTA AD DIFFERENCE"
10030 FORI=0TO7
10040 D1=2*I/128:IFI=7THEND1=-1
10050 CALLZE,PO,34,PTR(D1)
10060 CALLCE,PO,34,PTR(D2)
10070 PRINTINT(D1*10000+.5)/10000;TAB(11)INT(D2*10000+.5)/10000;TAB(21)D1-D2
10071 IFLP<>1THEN10080
10072 LPRINTINT(D1*10000+.5)/10000;TAB(11)INT(D2*10000+.5)/10000;TAB(21)D1-D2
10080 NEXTI
10085 IFLP=1THENLPRINT:LPRINT:LPRINT
10090 IFINKEY=""THEN10090
10100 RETURN
11000 REM TEST V-METRU
11010 CLS
11015 PRINT"Test cislicoveho voltmetru"
11016 PRINT:PRINT"VST.HODNOTA V-METR DIFFERENCE"
11020 IFLP<>1THEN11030
11021 LPRINT"Test cislicoveho voltmetru"
11022 LPRINT:LPRINT"VST.HODNOTA V-METS? DIFFERENCE"
11030 FORI=0TO7
11040 D1=2*I/128
11050 CALLZE,PO,34,PTR(D1)
11060 CALLSV,PO,34,PTR(A*),PTR(ER)
11065 D2=VAL(A*)
11070 PRINTINT(D1*10000+.5)/10000;TAB(11)INT(D2*10000+.5)/10000;TAB(20)D1-D2
11071 IFLP<>1THEN11080
11072 PRINTINT(D1*10000+.5)/10000;TAB(11)INT(D2*10000+.5)/10000;TAB(20)D1-D2
11080 NEXTI
11085 IFLP=1THENLPRINT:LPRINT:LPRINT
11090 IFINKEY=""THEN11090
11100 RETURN
12000 CLS:REM TEST ANALOGOVYCH PRVKU
12010 PRINT"Test analogovych prvků"
12020 PRINT
12030 PRINT" 1. Nasobicky"
12500 INPUT SE
12510 ON SEGOSUB12600
12520 IFINKEY=""THEN12520
12530 CLS:RETURN
12600 CLS:REM NASOB.
12610 PRINT"CISLO NASOBICKY"
12611 INPUT"(16,17,26,27,50-53) "CN:SI=1
12618 IFCN=26THENC1=22:C2=22:SI=-1
12619 IFCN=27THENC1=23:C2=23:SI=-1
12620 IFCN=16THENC1=14:C2=22
12621 IFCN=17THENC1=15:C2=23
12622 IFCN=50THENC1=40:C2=40
12623 IFCN=51THENC1=41:C2=41
12624 IFCN=52THENC1=42:C2=42
12625 IFCN=53THENC1=43:C2=43
12628 RESTORE
12630 IFCN=26 OR CN=27THENPRINT" X[SI] Y[SI] -Z[SI] Error[mV]":GOTO12632
12631 PRINT" X[SI] Y[SI] Z[SI] Error[mV]"
12632 IFLP<>1THEN12640
12633 LPRINT"Test nasobicky cislo "CN
12634 IFCN=26 OR CN=27THENLPRINT" X[SI] Y[SI] -Z[SI] Error[mV]":GOTO12636
12635 LPRINT:LPRINT" X[SI] Y[SI] Z[SI] Error[mV]"
12636 REM
12640 FORI=0TO8:READX,Y
12650 CALLZE,PO,34,PTR(X)
BREAK

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12651 CALLZE,PO,35,PTR(Y)
12655 WAIT(2)
12660 CALLSV,PO,34,PTR(X*),PTR(ER)
12661 CALLSV,PO,35,PTR(Y*),PTR(ER)
12670 CALLSV,PO,C1,PTR(Z1*),PTR(ER)
12680 CALLSV,PO,C2,PTR(Z2*),PTR(ER)
12691 Z1=VAL(Z1*);X=VAL(X*);Y=VAL(Y*)
12692 EE=INT((Z1-X*Y*SI)*1E4+.5)
12698 PRINTX*,TAB(7)Y*,TAB(14)Z1*,TAB(21)EE
12699 IFLP=1THEN LPRINTX*,TAB(7)Y*,TAB(14)Z1*,TAB(21)EE
12700 NEXTI
12701 IFLP=1THENLPRINT:LPRINT:LPRINT
12710 IFINKEY*=""THEN12710
12720 CLS:RETURN
12730 DATA0,0,10,0,-10,0,0,10,0,-10,10,-10,-10,10,10,10,-10,-10
13000 CLS
13010 PRINT"Nastav libovolne hodnoty na"
13020 PRINT"jednotlivych prvcich a stlac"
13030 PRINT"libovolnou klavesu."
13099 IFINKEY*=""THEN13099
13100 REM
13110 CLS:PRINT"Test adresare"
13120 IFLP=1THENLPRINT"Test adresare"
13150 FOR I=0 TO 63
13160 CALLCE,PO,I,PTR(D1)
13170 CALLSV,PO,I,PTR(A*),PTR(ER)
13180 ZZ*=INKEY*.IFZZ*=""THEN13200
13190 IFZZ*="W"THENPRINT"wait ";WAIT(10);GOSUB13350
13195 IFZZ*<>"W"THENPRINT"stop";WAIT(10);GOTO13310
13200 PRINT"A=";I;TAB(6);
13210 PRINT"AD=";D1;TAB(18);
13220 PRINT"DV=";A*
13230 IFLP<>1THEN13300
13240 LPRINT"A=";I;TAB(10);
13250 LPRINT"AD=";D1;TAB(30);
13260 LPRINT"DV=";A*
13300 NEXTI
13310 IFLP=1THENLPRINT:LPRINT:LPRINT
13320 IFINKEY*=""THEN13320
13330 RETURN
13350 IFINKEY*=""THEN13350
13360 PRINT"continue";WAIT(10)
13400 RETURN
13500 REM Test preruseni
13510 CLS:PRINT"Test preruseni";PRINT
13520 PRINT"1 INT1"
13530 PRINT"2 CP0"
13540 PRINT"3 CP1"
13550 PRINT"4 CP2"
13560 PRINT"5 F1"
13570 PRINT"6 F2"
13610 INPUT"Zadej cislo preruseni";PR
13615 V=0;V1=0
13620 CALLMD,PO,PTR(ST*(0))
13621 CALLMD,PO,PTR(ST*(7))
13622 CALLMD,PO,PTR(ST*(20))
13625 CALLTT,PO,1,PTR(V1)
13630 GOSUB13800
13640 PRINT"Preruseni ";ST*(PR);
13641 IFVANDV1THENPRINT" nastalo"
13642 IFNOT(VANDV1)THENPRINT" nenastalo"
13643 PRINT"Pozn. MEDA50="V1;" ";ST*(PR);V:WAIT(20)
13644 IFLP<>1THEN13650
BREAK

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13645 LPRINT"Preruseni ";ST*(PR);
13646 IFVANDV1THENLPRINT" nastalo ";
13647 IFNOT(VANDV1)THENLPRINT" nenastalo ";
13648 LPRINT"Pozn. MEDA50="V1;" ";ST*(PR);V:WAIT(20)
13650 IFINKEY=""THEN13650
13660 CALLMD,PO,PTR(ST*(7))
13670 RETURN
13700 REM
13800 CALLMD,PO,PTR(ST*(PR))
13801 CALLMD,PO,PTR(ST*(20))
13805 GOSUB13900
13810 CALLTT,PO,1,PTR(V1)
13820 CALLIT,PTR(ST*(PR)),PTR(V);RETURN
13900 PRINT"Nastav nebo nuluj preruseni ";ST*(PR)
13910 PRINT"Stlac libovolnou klavesu !"
13920 IFINKEY=""THEN13920
13930 RETURN
14000 CLS
14010 PRINT"1. centralni rezimy"
14020 PRINT"2. rezimy 1. skup.integr."
14030 PRINT"3. rezimy 2. skup.integr."
14040 PRINT"4. rezimy 3. skup.integr."
14050 PRINT"5. rezimy zapisovace"
14090 INPUTSE
14100 ONSEGOSUB14200,14300,14400,14500,14700
14110 RETURN
14200 CLS
14210 PRINT"Zadej rezimy PG,IC,OP,HD a kontroluj jejich provedeni"
14220 PRINT"Zadanim znaku : se provadeni testu ukonci"
14230 CALLMD,PO,PTR(ST*(8))
14240 INPUT"rezim";ST*
14250 IFLP=1AND ST*=","THENLPRINT
14251 IFST*=","THENRETURN
14252 IFLP=1THEN LPRINT"rezim";ST*
14260 CALLMD,PO,PTR(ST*)
14270 CALLMD,PO,PTR(ST*(20))
14280 GOTO14240
14300 CLS;REX="1"
14310 PRINT"Zadej rezimy P1,R1,Z1,M1,MC a kontroluj jejich provedeni"
14311 GOSUB14600
14320 PRINT"Zapoj funkci SIN pomoci integratoru 10 a 13"
14330 GOTO14220
14400 CLS;REX="2"
14410 PRINT"Zadej rezimy P2,R2,Z2,M2,MC a kontroluj jejich provedeni"
14411 GOSUB14600
14420 PRINT"Zapoj funkci SIN pomoci integratoru 11 a 14"
14430 GOTO14220
14500 CLS;REX="3"
14510 PRINT"Zadej rezimy P3,R3,Z3,M3,MC a kontroluj jejich provedeni"
14511 GOSUB14600
14520 PRINT"Zapoj funkci SIN pomoci integratoru 12 a 15"
14530 GOTO14220
14600 REM
14610 PRINT" P";REX;" poc.podminky"
14620 PRINT" R";REX;" reseni"
14630 PRINT" Z";REX;" zastaveni"
14640 PRINT" M";REX;" milisekundy"
14650 PRINT" MC nulovani milisekund"
14660 RETURN
14700 CLS;REX=""
14710 PRINT"Zadej rezimy zapisovace PEN,NFEN a kontroluj jejich provedeni"
14720 GOTO14220
14799 RETURN
BREAK
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15000 REM
15010 CLS
15020 PRINT"Test spinacu a analog.pameti"
15030 PRINT
15040 PRINT"Pripoj vystupy DA prevodniku."
15050 PRINT" DA 42 na horni vstup spinacu "
15060 PRINT"      a na vstup pameti 40"
15070 PRINT" DA 43 na dolni vstup spinacu "
15080 PRINT"      a na vstup pameti 41"
15090 PRINT
15100 PRINT"Kontroluj vizualne funkci LED diod T1,T2,T3,T4,T5"
15110 PRINT"Diody se postupne rozsvetuji a zhasinaji."
15200 PRINT"Stlac libovolnou klavesu"
15210 IF INKEY="" THEN 15210
15212 CLS
15215 PRINT"Diody se postupne rozsvetuji a zhasinaji."
15220 CALL MD,PO,PTR(ST*(10))
15230 DATA E5E,"1S","1R","2S","2R","3S","3R","4S","4R","5S","5R",0050
15250 RESTORE 15230
15260 FOR I=1 TO 12
15270 READ ST*:CALL MD,PO,PTR(ST*)
15280 WAIT(5)
15300 CALL MD,PO,PTR(ST*(20))
15310 NEXT I
15330 DATA E5E,"1R","1S","2R","2S","3R","3S","4R","4S","5R","5S",0050
15350 RESTORE 15330
15360 FOR I=1 TO 12
15370 READ ST*:CALL MD,PO,PTR(ST*)
15380 WAIT(5)
15400 CALL MD,PO,PTR(ST*(20))
15410 NEXT I
15420 INPUT"OK?";OK*
15430 IF LEFT*(OK*,1)="" THEN 15450 OR LEFT*(OK*,1)="" THEN 15450
15440 RETURN
15450 REM
15460 PRINT"Test indikace spinacu a anal.pameti OK"
15470 IFLP=1 THEN LPRINT"Test indikace spinacu a anal.pameti OK":LPRINT
15500 WAIT(10):CLS
15510 PRINT"Test funkce spinacu" PRINT
15520 IFLP=1 THEN LPRINT"Test funkce spinacu":LPRINT
15530 D1=.5:D2=-.5:E1=0:E2=0
15540 CALL ZE,PO,34,PTR(D1)
15550 CALL ZE,PO,35,PTR(D2)
15560 CALL CE,PO,34,PTR(D1)
15570 CALL CE,PO,35,PTR(D2)
15580 PRINT"DA42=";D1;" DA43=";D2
15600 CALL MD,PO,PTR(ST*(8))
15610 CALL MD,PO,PTR(ST*(9))
15620 CALL MD,PO,PTR(ST*(10))
15700 CALL MD,PO,PTR(ST*(13))
15710 PRINT"SW reset"
15720 IFLP=1 THEN LPRINT"SW reset"
15730 FOR I=44 TO 47
15740 CALL CE,PO,I,PTR(E1)
15750 PRINT"SW";I+10;"=";E1;TAB(17);E1-D2
15755 IFLP=1 THEN LPRINT"SW";I+10;"=";E1;TAB(20);E1-D2
15760 NEXT I
15800 CALL MD,PO,PTR(ST*(12))
15810 PRINT"SW set"
15820 IFLP=1 THEN LPRINT"SW set"
15830 FOR I=44 TO 47
15840 CALL CE,PO,I,PTR(E1)
15850 PRINT"SW";I+10;"=";E1;TAB(17);E1-D1
BREAK

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15855 IFLP=1THENLPRINT"SW";I+10;"=";E1;TAB(20);E1-D1
15860 NEXTI
15870 PRINT:PRINT"Stlac libovolnou klavesu"
15880 IFINKEYx=""THEN15880
15890 IFLP=1THENLPRINT
15900 CLS
15910 PRINT"Test analogovych pameti"
15911 IFLP=1THENLPRINT"Test analogovych pameti"
15920 J=-1:FORI=0TO8
15925 CALLMD,P0,PTR(ST*(15))
15926 CALLZE,P0,34,PTR(J)
15927 PRINTJ;TAB(10);E1;TAB(20);E2
15928 IFLP=1THENLPRINTJ;TAB(10);E1;TAB(20);E2
15935 CALLMD,P0,PTR(ST*(14))
15940 CALLCE,P0,32,PTR(E1)
15941 CALLCE,P0,33,PTR(E2)
15990 J=J+.25:NEXTI
15997 PRINT"Stlac libovolnou klavesu"
15998 IFINKEYx=""THEN15998
15999 RETURN
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