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|-----------------|---------------------------|---------------|----------------|
| Title: | BCR Sample Program | ID: | |
| | | 0013 | |
| Date in: | Response: | Model: | Author: |
| 2006-03-13 | 2006-03-13 | - | CMa |

Q:

Can you send me a sample program that reads barcodes?

A:

See attachment.

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PROGRAM Test_BCR;

{$APPTYPE CONSOLE}
{$H-}

USES
  System32, Crt, Dos, ComLi b3, KV_Li b3, NbrBase , STX_Li b3; // HpLsLi b, ;

CONST
  nOfRds          = 5;

VAR
  i, pH, pB, cN      : INTEGER;
  maxLvl , maxLow, maxCar  : WORD;
  s                  : STRING;

FUNCTION readDM(pH, n: WORD; VAR v: WORD): INTEGER;
VAR err: INTEGER;
BEGIN
  Val (KV_RdDm(pH, n), v, err);
  IF err<0 THEN readDM:=-1 ELSE readDM:=0
END;

FUNCTION waitReady(pH: WORD): BOOLEAN;
BEGIN
  REPEAT
    KbdDelay(2)
  UNTIL (KV_Rd(pH, 1915)='1') OR (PressedKey=esc) OR KbdEsc
END;

FUNCTION bcr_InitCom(pB: WORD): INTEGER;
BEGIN
  emptyKbd;
  bcr_InitCom:=ModeCom(pB, 9600, 'E', 7, 1)
END;
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PROCEDURE bcrOn(pB: WORD);
  BEGIN AuxStrOut(pB, 'LON' +Chr(13)) END;

PROCEDURE bcrOff(pB: WORD);
  BEGIN AuxStrOut(pB, 'LOFF' +Chr(13)) END;

FUNCTION bcrRead(pB: WORD; VAR s: STRING): INTEGER;
  VAR ci: CHAR;
  FUNCTION blnTmo: CHAR;
    VAR n: INTEGER; c: CHAR;
    BEGIN
      n:=0; c:=null;
      REPEAT
        KbdDelay(1); IF auxStat(pB) THEN AuxCharIn(pB, c); Inc(n)
      UNTIL (c<>null) OR (n>nOfRds) OR KbdEsc OR (PressedKey=esc);
      blnTmo:=c
    END;

  BEGIN
    bcrOn(pB);
    bcrRead:=0; n:=1; ci:=null; s:='';
    IF blnTmo<>null THEN
      REPEAT
        IF ci<>null THEN s:=s+ci;
        IF AuxStat(pB) THEN AuxCharIn(pB, ci);
      UNTIL KbdEsc OR (PressedKey=esc) OR (ci=cr)
    ELSE
      BEGIN
        bcrRead:=-1; bcrOff(pB); s:='';
        IF blnTmo<>null THEN
          REPEAT
            IF AuxStat(pB) THEN AuxCharIn(pB, ci);      { Read and dump
<ERROR> }
          UNTIL KbdEsc OR (PressedKey=esc) OR (ci=cr)
        END
      END;
    END;

PROCEDURE scanStacker(pH, pB, cN, fromLvl, toLvl: WORD; uprLvl: BOOLEAN);
  VAR i: INTEGER;
  BEGIN
    ClrScr;
    waitReady(pH);
    WRITE(' 0 ');
    KV_WrDm(pH, 0, cN);      { Position stacker }
    KV_WrDM(pH, 5, 0);      { Position level (0=Stacker ID) }
    IF uprLvl THEN KV_St(pH, 1608) ELSE KV_Rs(pH, 1608);  { Upper/Lower Deck
  }
    waitReady(pH);
    KV_St(pH, 1710);      { Do scan move on lift }
    bcrRead(pB, s);
    WRITE(s); wrtLn; WrtLn;
    i:=1;
    IF NOT KbdEsc THEN
      REPEAT
        waitReady(pH);
        WRITE(i:3, ' ');
        KV_WrDM(pH, 5, i); { Position lift to level }
        waitReady(pH);
        KV_St(pH, 1710);  { Do scan move with lift }
        IF bcrRead(pB, s)>=0 THEN WRITE(s)
        ELSE
          IF KV_Rd(pH, 1808)=' 1' THEN WRITE(' No BarCode' )
          ELSE WRITE(' No Plate' );
          wrtLn; Inc(i)
        UNTIL (i>maxLow) OR KbdEsc
      END;
  END;

```

```
BEGIN
  TextBackground(7); TextColor(1);
  ClrScr;
  WRITE(' Enter Comport to Handler          '); READLN(pH);
  WRITE(' Enter Comport to CarCode Reader '); READLN(pB);
  WRITE(' Enter Cassette Number '); ReadLn(cN);

  KV_InitCom(pH); KV_OpenCom(pH);
  bcr_InitCom(pB);

  readDm(pH, 25, maxLvl); readDm(pH, 29, maxCar); readDm(pH, 48, maxLow);
  KV_WrDm(pH, 0, cN);      { Select stacker 1 }
  KV_WrDm(pH, 5, 0);      { Select lowermost level }
  KV_Rs(pH, 1608);        { Select lower deck }
  KV_St(pH, 1910);        { Activate BCR mode }

  REPEAT
    scanStacker(pH, pB, cN, 0, maxLow, FALSE);
    scanStacker(pH, pB, cN, 0, maxLvl - maxLow - 1, TRUE);
  UNTIL KbdEsc;

  EmptyKbd;
  KV_Rs(pH, 1910);
  KV_CloseCom(pH);
  AuxClose(pH); AuxClose(pB)
END.
```