```
Program OledPix.h Version du 170611
 Reunion des 6 libs de base.
// MIT License
Routine "OledGenc.h"
0x80,0x80,0x80,0x80,0x80};//_
 Routine "OledControlPix.h" 170504
         Clear()
   Clear();
 void WrStaData () {
Start(); Write (Adr); Write(0x40);
 void WrStaCom () {
   Start(); Write (Adr); Write(0);
 void Cmd (byte cc) {
    wrStaCom (); Write (cc); Stop();
 }
byte taIniTr[]={Adr,0,0x21,0x0,0x7f,0x22,0x0,0x7F};
void IniTransfert () {
  for (byte i=0;i<sizeof(talniTr);i++) {
     wrstacom ();
     write (taIniTr[i]);Stop();
}</pre>
   }
byte saveLi,saveCo1;
void SetLine (byte cc) {
    saveLi=cc;
    cc--;if(co<0) {cc=7;}
    wrStaCom (); Write (0x22);
    write (cc); Write (7); Stop();
}</pre>
 void setCol (byte cc) {
   WrstaCom (); Write (0x21);
   Write (cc); Write (127); Stop();
   saveCol=cc;
 void LiCol (byte li,byte co) {
   SetLine (li); SetCol(co);
```

```
ptMap = (128*saveLi)+saveCol;
#define Sprite(tt) \
 Routine "OledCarPix.h" 170426
void Error();
void DoubleH () {Cmd (0xda);Cmd (0x02);}
void Car(char cc) {
    cc&=0x7F
   ccd=0x7F;
switch (cc/32) {
  case 0:
    if(cc=13) {SetLine(saveLi+1);SetCol(0);} // saut de ligne
    else Error();
    break;
  case 1: // codes 32-
      // end switch
   }
 void Error() {
    LiCol(0,100); Car('e'); Car('r'); Car('r'); Car('o'); Car('r');
#define Text(tt) \
  for (byte i=0; i<sizeof tt; i++) \
  { Car (tt[i]);}</pre>
 Car(' ');
char ConvNibble (byte nn) { // converti 4 bit hexa en Ascii
   byte cc;

if (nn<10) {cc = nn + '0';}

else {cc = nn-10 + 'A';}

return cc;
  void Hex8 (byte hh) {
   byte cc;
cc = ConvNibble (hh >> 4); // ne modifie pas hh
    car(cc);
        = ConvNibble (hh & 0x0F);
    Car(cc);
Car(' '); // space
 void Hex16 (uint16_t hh) {
   byte cc;

cc = convnibble (hh >> 12); Car(cc);

cc = convnibble ((hh >> 8)&0x0F); Car(cc);

cc = convnibble ((hh >> 4)&0x0F); Car(cc);

cc = convnibble (hh & 0x0F); Car(cc);

car(' ');
 void Hex12 (uint16_t hh) {
   but Hex12 (Unit16_t nn) {
byte cc=6;
cc = ConvNibble ((hh >> 8)&0x0F) ; Car(cc);
cc = ConvNibble ((hh >> 4)&0x0F) ; Car(cc);
cc = ConvNibble (hh & 0x0F) ; Car(cc);
Car(' ');
}

uint16_t BinDec8 (uint8_t bb) {

uint16_t dd=0;

for (byte i=0;i<8;i++) {

if ((dd & 0x0F)>0x04) {dd += 0x03;}

if ((dd & 0xF0)>0x40) {dd += 0x30;}

dd=dd<<1;

if ((bb & 0x80)) {dd += 1; //inject bit
       dd=dd<-1;
if ((bb & 0x80)) {dd += 1;} //inject bit
bb=bb<<1; // prepare next bit
```

1

## C:\Users\jdn\Desktop\GithubJDN\Oled\OledPix\_ino.asm

```
void Dec8 (byte hh) {
   Hex12(BinDec8(hh));
}
uint16_t BinDec9999 (uint16_t bb) { //0x270F max uint16_t dd=0; for (byte i=0;i<16;i++) { if ((dd & 0x000F)>0x0004) { dd += 0x0003; if ((dd & 0x00F0)>0x0040) { dd += 0x0300; if ((dd & 0x0F0)>0x40040) { dd += 0x0300; if ((dd & 0xF000)>0x4000) { dd += 0x3000; dd=dd<1; if ((bb & 0x8000)) { dd += 1;} //inject bit bb<<=1; // prepare next bit }
                   return dd:
 you'd Dec9999 (uint16_t hh) { // limitïሂ½ ፕሬ½ 0x2703 if (hh>999) { Car('?'); Car('?'); Car('?'); Car('?'); } else Hex16(BinDec9999(hh));
 }
//ddot 2points superposA®s si (yy/8!=7)
// si = 7 il faut agit sur le bit0 de la ligne suiv si !=7
void DDot(byte xx,byte yy) { // yy0-64 --> 0-7
byte tmp=(1<<yy/8);
if (yy%8!=7) tmp+=(1<<(yy/8+1));
LiCol(yy/8,xx);
Start(); Write (Adr); Write (0x40);
write (tmp);
Stop();
}
 void hLine (byte yy) {
  for (byte i=0; i<128; i++) { Dot(i,yy); }</pre>
}
void vLine (byte xx) {
    for (byte i=0;i<8;i++) {
        Licol (i,xx);
        Start(); Write (Adr); Write (0x40);
        Write (0xFF); Stop();
     Routine OledBigPix.h car normaux dans OledCarPix et OledNumPix
HOUTINE | CHECKET | CAT NORMALX CARS CHECKET | C
                                case 0:
Error();
break;
case 1: /
         case 0:
    Error();
    break;
case 1: // codes 32-
    tmp = pgm_read_byte(&taNum[((cc-32)*4)+i]);
    tmp &= 0x0f; //low byte
    tmp = nToB[Emp];
    // on Ā@crit ce byte sur 2 colonnes
    Start(); Write (Adr); Write (0x40);
    write (tmp); Write (tmp); Stop();
    break;
case 2: // codes 64-
    tmp = pgm_read_byte(&taMaj[((cc-64)*5)+i]);
    tmp &= 0x0f; //low byte
    tmp = nToB[tmp];
    Start(); Write (Adr); Write (0x40);
    write (tmp); Write (tmp); Stop();
    break;
case 3: // codes 96-
    tmp = pgm_read_byte(&taMin[((cc-96)*4)+i]);
    tmp &= 0x0f; //low byte
    tmp = nToB[Emp];
    // on A@crit ce byte sur 2 colonnes
    Start(); Write (Adr); Write (0x40);
    write (tmp); Write (tmp); Stop();
    break;
    // end switch
} // end for
    // on s'occupe des nible inf
SetLine (++saveLi); SetCol(saveCol);
for (byte i=0; i<k; i+) {
    switch (cc/32) {
    case 0:
        break;
    case 1: // codes 32-
        tmp = pgm_read_byte(&taNum[((cc-32)*4)+i]);
    tmp = (tmp&0xf0)>>4; // high byte
                            break;
case 1: // codes 32-
tmp = pgm_read_byte(&taNum[((cc-32)*4)+i]);
tmp = (tmp&0xf0)>>4; // high byte
tmp = nTos[tmp];
// on A@crit ce byte sur 2 colonnes
Start(); Write (Adr); Write (0x40);
Write (tmp); Write (imp); Stop();
break;
case 2: // codes 64-
tmp = pgm_read_byte(&taMaj[((cc-64)*5)+i]);
tmp = (tmp&0xf0)>>4; // high byte
tmp = nTos[tmp];
// on A@crit ce byte sur 2 colonnes
Start(); Write (Adr); Write (0x40);
Write (tmp); Write (tmp); Stop();
break;
```

```
case 3: // codes 96-
     case 3: // codes 96-
    tmp = pym_read_byte(&taMin[((cc-96)*4)+i]);
    tmp = (tmp&0xf0)>>4; // high byte
    tmp = nToB[tmp];
    // on A@crit ce byte sur 2 colonnes
    Start(); Write (Adr); Write (0x40);
    Write (tmp); Write (tmp); Stop();
    break;
} // end switch
} // end for
if (cc&(1<<5)) saveCol+=10; else saveCol+=12; // prep car suivant
    SetCol(saveCol);</pre>
      SetCol(saveCol);
void BigBin8 (byte bb) {
  for (byte i=0;i<8;i++) {
    if (bb&0x80) Big('1');
    else Big('0');
    bb <<= 1;</pre>
     Big(' ');
void BigHex8 (byte hh) {
    byte cc;
cc = ConvNibble (hh >> 4); // ne modifie pas hh
     Big(cc);
Big(c'); // space

CC = ConvNibble (hh & 0x0F);
Big(cc);
Big(''); // space
 void BiaHex16 (uint16 t hh) {
    old BigHeX1b (uint1b_t nn) {
byte cc;
cc = ConvNibble (hh >> 12); Big(cc);
cc = ConvNibble ((hh >> 8)&0x0F); Big(cc);
cc = ConvNibble ((hh >> 4)&0x0F); Big(cc);
cc = ConvNibble (hh & 0x0F); Big(cc);
Big(' ');
    oru BrgHex12 (uint16_t hh) {
byte cc=0;
cc = ConvNibble ((hh >> 8)&0x0F) ; Big(cc);
cc = ConvNibble ((hh >> 4)&0x0F) ; Big(cc);
cc = ConvNibble (hh & 0x0F) ; Big(cc);
Big(' ');
void BigHex12 (uint16_t hh) {
void BigDec8 (byte hh) { BigHex12(BinDec8(hh));}
void BigDec9999 (uint16_t hh) { // limitã® Ã 0x270F if (hh>9999) { Big('?'); Big("?'); Big("?'); Big("?'); } else BigHex16(BinDec9999(hh));
```