

Entender código de Gráficos en Turbo Pascal

Escrito por Proyectos_ - 23/05/2023 09:59

Tengo este código:

<http://190.53.102.175/api.7z>

En el directorio apiusr_CACHE_mario para Pascal y
apiusr_CACHE_mario_DJGPP para DJGPP/C/NASM.

Necesito pasar código de Turbo Pascal a DJGPP para activar gráficos.

¿Pone esto la tarjeta en Mode X o en cuál modo?:

```
{INIT: Configure VGA to mode ???}  
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```

```
asm  
    mov ax,13h  
    int 10h  
end;  
{ if not InGraphicsMode then}  
    InitVGA;
```

```
{ SetWidth (1610 shr 1);  
    mov ax, BYTES_PER_LINE shr 1  
    push ax  
  
    pop ax  
  
}  
  
asm  
    {3d4}  
{    mov dx, CRTC_INDEX  
    mov ax, 13h  
    out dx, al  
    inc dx  
    in al,dx  
    mov bl,al  
}  
    mov dx, CRTC_INDEX {3d4 0x13 offset or logical width}  
    mov ax, 13h  
    out dx, al  
    inc dx  
    mov al,bl
```

```
    add al,5 {0x28 to 0x2D???}
mov al,02Dh {0B4h} {028h}
mov al,02Dh
{05Ah}
    out dx, al
end;
```

```
asm
{underline}
    mov dx, CRTC_INDEX
    mov al, UNDERLINE
    out dx, al
    inc dx
    in al, dx
    and al, not 40h
mov al,0
    out dx, al
```

```
{mode control}
    dec dx
    mov al, MODE_CONTROL
    out dx, al
    inc dx
    in al, dx
    or al, 40h
mov al,0E3h
    out dx, al
end;
```

```
asm
{memory mode}
    mov dx, SC_INDEX
    mov al, MEMORY_MODE
    out dx, al
    inc dx
    in al, dx
    and al, not 8
    or al, 4
mov al,6
    out dx, al
```

```
{graphics mode}
    mov dx, GC_INDEX {0x3CE}
    mov al, GRAPHICS_MODE
    out dx, al
```

```
inc    dx
in     al, dx
and    al, not 10h
mov al,40h
out    dx, al
dec    dx

{miscellaneous}
mov    al, MISCELLANEOUS
out    dx, al
inc    dx
in     al, dx
and    al, not 2
MOV AL,0E1h
out    dx, al
```

{vertical retrace end, turn off write protect}

```
mov dx,03D4h
mov ax,02C11h
mov ax,00E11h
out dx,ax
```

{vertical total}

```
mov ax,00D06h
mov ax,0BF06h
out dx,ax
```

{overflow register}

```
mov ax,03E07h
mov ax,01F07h
out dx,ax
```

{vertical retrace start}

```
mov ax,0EA10h  
mov ax,09C10h  
out dx,ax
```

{vertical display enable end}

```
mov ax,0DF12h  
mov ax,08E12h  
out dx,ax
```

{start vertical blanking}

```
mov ax,0E715h  
mov ax,09615h  
out dx,ax
```

{end vertical blanking}

```
mov ax,00616h  
mov ax,0B916h  
out dx,ax
```

{vertical retrace end AND wr.prot}

```
mov ax,0AC11h  
mov ax,08E11h  
out dx,ax
```

end;