

# TPCrt

## FrameWindow

```
procedure FrameWindow(LeftCol, TopRow, RightCol, BotRow, FAttr, HAttr :  
Byte; Header : shortstring);
```

Draw a frame around a window

## WhereXAbs

```
function WhereXAbs: Byte;
```

Return absolute column coordinate of cursor

## WhereYAbs

```
function WhereYAbs: Byte;
```

Return absolute row coordinate of cursor

## WhereXY

```
function WhereXY: Word;
```

Return absolute coordinates of cursor

## ScreenX

```
function ScreenX: Byte;
```

Return absolute column coordinate of cursor

## ScreenY

```
function ScreenY: Byte;
```

Return absolute row coordinate of cursor

## FastWrite

```
procedure FastWrite(St : string; Row, Col, Attr : Byte);
```

Write St at Row,Col in Attr (video attribute) without snow

## SetFrameChars

```
procedure SetFrameChars(Vertical, Horizontal, LowerRight, UpperRight,  
LowerLeft, UpperLeft : Char);
```

Sets the frame characters to be used on subsequent FrameWindow calls.

## WhereXYdirect

```
procedure WhereXYdirect(var X, Y : Byte);
```

Read the current position of the cursor directly from the CRT controller

## GetCrtMode

```
function GetCrtMode : Byte;
```

Get the current video mode. Also reinitializes internal variables. May reset: CurrentMode, ScreenWidth, ScreenHeight, CurrentPage, and VideoSegment.

## GotoXYAbs

```
procedure GotoXYAbs(X, Y : Byte);
```

Move cursor to column X, row Y. No error checking done.

## SetVisiblePage

```
procedure SetVisiblePage(PageNum : Byte);
```

Set current video page

## ScrollWindowUp

```
procedure ScrollWindowUp(XLo, YLo, XHi, YHi, Lines : Byte);
```

Scrolls the designated window up the specified number of lines.

## ScrollWindowDown

```
procedure ScrollWindowDown(XLo, YLo, XHi, YHi, Lines : Byte);
```

Scrolls the designated window down the specified number of lines.

## CursorTypeSL

```
function CursorTypeSL : Word;
```

Returns a word. High byte has starting scan line, low byte has ending.

## CursorStartLine

```
function CursorStartLine : Byte;
```

Returns the starting scan line of the cursor

## CursorEndLine

```
function CursorEndLine : Byte;
```

Returns the ending scan line of the cursor.

## SetCursorSize

```
procedure SetCursorSize(Startline, EndLine : Byte);
```

Sets the cursor's starting and ending scan lines.

## NormalCursor

```
procedure NormalCursor;
```

Set normal scan lines for cursor based on current video mode

## FatCursor

```
procedure FatCursor;
```

Set larger scan lines for cursor based on current video mode

## BlockCursor

```
procedure BlockCursor;
```

Set scan lines for a block cursor

## HiddenCursor

```
procedure HiddenCursor;
```

Hide the cursor

## ReadCharAtCursor

```
function ReadCharAtCursor: Char;
```

Returns character at the current cursor location on the selected page.

## ReadAttrAtCursor

```
function ReadAttrAtCursor: Byte;
```

Returns attribute at the current cursor location on the selected page.

## GetCursorState

```
procedure GetCursorState(var XY, ScanLines: Word);
```

Return the current position and size of the cursor

## RestoreCursorState

```
procedure RestoreCursorState(XY, ScanLines: Word);
```

Reset the cursor to a position and size saved with GetCursorState

## FastWriteWindow

```
procedure FastWriteWindow(St: string; Row, Col, Attr: Byte);
```

Write a string using window-relative coordinates

## FastText

```
procedure FastText(St: string; Row, Col: Byte);
```

Write St at Row,Col without changing the underlying video attribute.

## FastTextWindow

```
procedure FastTextWindow(St: string; Row, Col: Byte);
```

Write St at window Row,Col without changing the underlying video attribute.

## FastVert

```
procedure FastVert(St: string; Row, Col, Attr: Byte);
```

Write St vertically at Row,Col in Attr (video attribute)

## FastVertWindow

```
procedure FastVertWindow(St: string; Row, Col, Attr: Byte);
```

Write a string vertically using window-relative coordinates

## FastFill

```
procedure FastFill(Number: Word; Ch: Char; Row, Col, Attr: Byte);
```

Fill Number chs at Row,Col in Attr (video attribute) without snow

## FastFillWindow

```
procedure FastFillWindow(Number: Word; Ch: Char; Row, Col, Attr: Byte);
```

Fill Number chs at window Row,Col in Attr (video attribute) without snow

## FastCenter

```
procedure FastCenter(St: string; Row, Attr: Byte);
```

Write St centered on window Row in Attr (video attribute) without snow

## FastFlush

```
procedure FastFlush(St: string; Row, Attr: Byte);
```

Write St flush right on window Row in Attr (video attribute) without snow

## FastRead

```
procedure FastRead(Number, Row, Col: Byte; var St: string);
```

Read Number characters from the screen into St starting at Row,Col

## FastReadWindow

```
procedure FastReadWindow(Number, Row, Col: Byte; var St: string);
```

Read Number characters from the screen into St starting at window Row,Col

## ReadAttribute

```
procedure ReadAttribute(Number, Row, Col: Byte; var St: string);
```

Read Number attributes from the screen into St starting at Row,Col

## ReadAttributeWindow

```
procedure ReadAttributeWindow(Number, Row, Col: Byte; var St: string);
```

Read Number attributes from the screen into St starting at window Row,Col

## WriteAttribute

```
procedure WriteAttribute(St: String; Row, Col: Byte);
```

Write string of attributes St at Row,Col without changing characters

## WriteAttributeWindow

```
procedure WriteAttributeWindow(St: String; Row, Col: Byte);
```

Write string of attributes St at window Row,Col without changing characters

## ChangeAttribute

```
procedure ChangeAttribute(Number: Word; Row, Col, Attr: Byte);
```

Change Number video attributes to Attr starting at Row,Col

## ChangeAttributeWindow

```
procedure ChangeAttributeWindow(Number: Word; Row, Col, Attr: Byte);
```

Change Number video attributes to Attr starting at window Row,Col

## MoveScreen

```
procedure MoveScreen(var Source, Dest; Length : Word);
```

Move Length words from Source to Dest without snow

## FlexWrite

```
procedure FlexWrite(St : string; Row, Col : Byte; var FAttrs : FlexAttrs);
```

Write St at Row,Col with flexible color handling

## FlexWriteWindow

```
procedure FlexWriteWindow(St :string; Row, Col: Byte; var FAttrs:  
FlexAttrs);
```

Write a string flexibly using window-relative coordinates.

## SaveWindow

```
function SaveWindow(XLow, YLow, XHigh, YHigh : Byte; Allocate : Boolean; var  
Covers : Pointer) : Boolean;
```

Allocate buffer space if requested and save window contents

## RestoreWindow

```
procedure RestoreWindow(XLow, YLow, XHigh, YHigh : Byte; Deallocate :  
Boolean; var Covers : Pointer);
```

Restore screen contents and deallocate buffer space if requested



## StoreWindowCoordinates

```
procedure StoreWindowCoordinates(var WC : WindowCoordinates);
```

Store the window coordinates for the active window

## RestoreWindowCoordinates

```
procedure RestoreWindowCoordinates(WC : WindowCoordinates);
```

Restore previously saved window coordinates

## PackWindow

```
function PackWindow(XLow, YLow, XHigh, YHigh : Byte) : PackedWindowPtr;
```

Return a pointer to a packed window, or nil if not enough memory

## DispPackedWindow

```
procedure DispPackedWindow(PWP : PackedWindowPtr);
```

Display the packed window pointed to by PWP

## DispPackedWindowAt

```
procedure DispPackedWindowAt(PWP : PackedWindowPtr; Row, Col : Byte);
```

Display the packed window pointed to by PWP at Row,Col. If necessary, the coordinates are adjusted to allow it to fit on the screen.

## MapPackedWindowColors

```
procedure MapPackedWindowColors(PWP : PackedWindowPtr);
```

Map the colors in a packed window for improved appearance on mono/B&W displays

## DisposePackedWindow

```
procedure DisposePackedWindow(var PWP : PackedWindowPtr);
```

Dispose of a packed window, setting PWP to nil on exit

## WritePackedWindow

```
procedure WritePackedWindow(PWP : PackedWindowPtr; FName : string);
```

Store the packed window pointed to by PWP in FName

## ReadPackedWindow

```
function ReadPackedWindow(FName : string) : PackedWindowPtr;
```

Read the packed window stored in FName into memory

## CreateLibrary

```
function CreateLibrary(var F : file; Name : string; Entries : Byte) :  
DirectoryPtr;
```

Create a library with the specified # of directory entries

## OpenLibrary

```
function OpenLibrary(var F : file; Name : string) : DirectoryPtr;
```

Open the specified library and return a pointer to its directory

## CloseLibrary

```
procedure CloseLibrary(var F : file; var DP : DirectoryPtr);
```

Close library F and deallocate its directory

## PackLibrary

```
procedure PackLibrary(LName : string);
```

Pack a library to remove deleted entries.

## AddWindowToLibrary

```
procedure AddWindowToLibrary(PWP : PackedWindowPtr; var F : file; DP : DirectoryPtr; WinName : LibName);
```

Add a packed window to the specified library

## ReadWindowFromLibrary

```
function ReadWindowFromLibrary(var F : file; DP : DirectoryPtr; WinName : LibName) : PackedWindowPtr;
```

Read a packed window from a library

## DeleteWindowFromLibrary

```
procedure DeleteWindowFromLibrary(var F : file; DP : DirectoryPtr; WinName : LibName);
```

Delete a packed window from the specified library

## MapColor

```
function MapColor(c : Byte) : Byte;
```

Map a video attribute for visibility on mono/bw displays

## SetBlink

```
procedure SetBlink(Status : Boolean);
```

Enable text mode attribute blinking if On is True

## SetCrtBorder

```
procedure SetCrtBorder(Attr : Byte);
```

Set border to background color if card type and mode allow

## Font8x8Selected

```
function Font8x8Selected : Boolean;
```

Return True if EGA or VGA is active and in 8x8 font

## SelectFont8x8

```
procedure SelectFont8x8(Status : Boolean);
```

Toggle 8x8 font on or off

## HercPresent

```
function HercPresent : Boolean;
```

Return true if a Hercules graphics card is present

## SwitchInColorCard

```
procedure SwitchInColorCard(ColorOn : Boolean);
```

Activate or deactivate colors on a Hercules InColor card

## HercGraphicsMode

```
function HercGraphicsMode : Boolean;
```

Return True if a Hercules card is in graphics mode

## HercModeTestWorks

```
function HercModeTestWorks : Boolean;
```

Return True if HercGraphicsMode will work

## SetHercMode

```
procedure SetHercMode(GraphMode : Boolean; GraphPage : Byte);
```

Set Hercules card to graphics mode or text mode, and activate specified graphics page (if switching to graphics mode).

## ReadKeyWord

```
function ReadKeyWord : Word;
```

Waits for keypress, then returns scan and character codes together

## CheckKbd

```
function CheckKbd(var KeyCode : Word) : Boolean;
```

Returns True (and the key codes) if a keystroke is waiting

## KbdFlags

```
function KbdFlags : Byte;
```

Returns keyboard status flags as a bit-coded byte

## StuffKey

```
procedure StuffKey(W : Word);
```

Stuff one key into the keyboard buffer

## StuffString

```
procedure StuffString(S : string);
```

Stuff the contents of S into the keyboard buffer

## ReInitCrt

```
procedure ReInitCrt;
```

Reinitialize CRT unit's internal variables. For TSR's or programs with DOS shells. May reset: CurrentMode, ScreenWidth, ScreenHeight, WindMin/WindMax, CurrentPage, CurrentDisplay, CheckSnow, and VideoSegment

## SetSafeCPSwitching

```
procedure SetSafeCPSwitching(F: Boolean);
```

## SetUseACP

```
procedure SetUseACP(F: Boolean);
```

## AssignConToCrt

```
procedure AssignConToCrt;
```

## ClrScr

```
procedure ClrScr;
```

Clears the screen and returns the cursor to the upper-left corner

## TextBackground

```
procedure TextBackground(Color: Byte);
```

Selects the background color

## TextColor

```
procedure TextColor(Color: Byte);
```

Selects the foreground character color

## Window

```
procedure Window(X1,Y1,X2,Y2: Byte);
```

Defines a text window on the screen

## GotoXY

```
procedure GotoXY(X,Y: Byte);
```

Moves the cursor to the given coordinates within the screen

## WhereX

```
function WhereX: Byte;
```

Returns the X coordinate of the current cursor location

## WhereY

```
function WhereY: Byte;
```

Returns the Y coordinate of the current cursor location

## ClrEol

```
procedure ClrEol;
```

Clears all characters from the cursor position to the end of the line without moving the cursor.

## KeyPressed

```
function KeyPressed: Boolean;
```

Determines if a key has been pressed on the keyboard and returns True if a key has been pressed

## ReadKey

```
function ReadKey: Char;
```

Reads a character from the keyboard and returns a character or an extended scan code.

## TextMode

```
procedure TextMode (Mode: word);
```

## InsLine

```
procedure InsLine;
```

Inserts an empty line at the cursor position

## DelLine

```
procedure DelLine;
```

Deletes the line containing the cursor

## LowVideo

```
procedure LowVideo;
```

Selects low intensity characters

## HighVideo

```
procedure HighVideo;
```



Selects high-intensity characters

## NormVideo

```
procedure NormVideo;
```

Selects normal intensity characters

## Delay

```
procedure Delay(MS: Word);
```

## Sound

```
procedure Sound(Hz: Word);
```

## NoSound

```
procedure NoSound;
```

## AssignCrt

```
procedure AssignCrt(var F: Text);
```

Associates a text file with CRT device.

## PlaySound

```
procedure PlaySound(Freq,Duration: Longint);
```

Setups window coordinates

## GetLastMode

```
procedure GetLastMode;
```

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