

CGrafPort structure

#include <Quickdraw.h>

| typedef struct CGrafPort { | | Size | Offset | Description |
|-----------------------------------|--------------|------|--------|--|
| <u>short</u> | device; | 2 | 0 | Device-specific info; 0=screen |
| <u>PixMapHandle</u> | portPixMap; | 4 | 2 | port's pixel map |
| <u>short</u> | portVersion; | 2 | 6 | High bits set |
| <u>Handle</u> | grafVars; | 4 | 8 | Handle to additional fields |
| <u>short</u> | chExtra; | 2 | 12 | Widen text and numeric characters, see TextSize |
| <u>short</u> | pnLocHFrac; | 2 | 14 | Fractional horizontal pen position |
| <u>Rect</u> | portRect; | 8 | 16 | Writeable interior, for more information |
| <u>RgnHandle</u> | visRgn; | 4 | 24 | Portion not covered by other windows |
| <u>RgnHandle</u> | clipRgn; | 4 | 28 | User-definable clipping region, see SetClip |
| <u>PixPatHandle</u> | bkPixPat; | 4 | 32 | Color background pattern see BackPat |
| <u>RGBColor</u> | rgbFgColor; | 6 | 36 | requested foreground color see MakeRGBPat |
| <u>RGBColor</u> | rgbBkColor; | 6 | 42 | requested background color see MakeRGBPat |
| <u>Point</u> | pnLoc; | 4 | 48 | Pen location in local coords see MoveTo |
| <u>Point</u> | pnSize; | 4 | 52 | .v=height, .h=width of pen see PenSize |
| <u>short</u> | pnMode; | 2 | 56 | see PenMode |
| <u>PixPatHandle</u> | pnPixPat; | 4 | 58 | Color pen pattern used in drawing, see PenPat |
| <u>Pattern</u> | fillPixPat; | 4 | 62 | Color fill pattern |
| <u>short</u> | pnVis; | 2 | 66 | If <0, pen is invisible |
| <u>short</u> | txFont; | 2 | 68 | Font; 0=system, 1=application see TextFont |
| <u>Style</u> | txFace; | 1 | 70 | Text style; see TextFace |
| <u>char</u> | filler; | 1 | 71 | |
| <u>short</u> | txMode; | 2 | 72 | Transfer Mode |
| <u>short</u> | txSize; | 2 | 74 | Text size in points |
| <u>Fixed</u> | spExtra; | 4 | 76 | Spacing for full justification |
| <u>long</u> | fgColor; | 4 | 80 | Old-model color for foreground see ForeColor |
| <u>long</u> | bkColor; | 4 | 84 | Old-model color for background, see BackColor |
| <u>short</u> | colrBit; | 2 | 86 | Old-model color plane |
| <u>short</u> | patStretch; | 2 | 88 | Used internally; printer aspect ratio adjustment |
| <u>Handle</u> | picSave; | 4 | 92 | PicHandle if pict being saved. |
| <u>Handle</u> | rgnSave; | 4 | 96 | RgnHandle if region is being saved. |
| <u>Handle</u> | polySave; | 4 | 100 | PolyHandle if polygon being saved. |
| <u>CQDProcsPtr</u> | grafProcs; | 4 | 104 | Addr of struct with addresses of custom routines |
| } CGrafPort ; | | 108 | | |

typedef CGrafPort ***CGrafPtr**;typedef CGrafPtr **GWorldPtr**;

Notes: The CGrafPort structure is used indirectly in virtually every Color Quickdraw, Window Manager, Dialog Manager, etc. function. A CGrafPtr is used directly in calls to:

InitCPort **CloseCPort**

Calls to **NewCWindow** (**GetNewCWindow**) and **NewCDialog** (**GetNewDialog**) et al., allocate and initialize a CGrafPort as part of a CWindowRecord.

The Quickdraw variable thePort is a pointer to the current active CGrafPort.

A NIL (0) value in picSave, rgnSave, or polySave indicates that no picture (or region or polygon) recording is currently taking place. A NIL value in cGrafProcs indicates that the standard routines will handle all Quickdraw functions.