

**in**

<b>COLLABORATORS</b>
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	TITLE :  in		
ACTION	NAME	DATE	SIGNATURE
WRITTEN BY		May 28, 2025	

<b>REVISION HISTORY</b>
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NUMBER	DATE	DESCRIPTION	NAME

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# Chapter 1

## in

### 1.1 ModuleInformation

```
ShowModule v1.10 (c) 1992 $#!  
now showing: "intuition/screens.m"  
NOTE: don't use this output in your code, use the module instead.
```

```
(----) OBJECT screenbuffer  
(  0)  bitmap:PTR TO bitmap  
(  4)  dbufinfo:PTR TO dbufinfo  
(----) ENDOBJECT      /* SIZEOF=8 */  
  
(----) OBJECT pubscreennode  
(  0)  ln:ln (or ARRAY OF ln)  
( 14)  screen:PTR TO screen  
( 18)  flags:INT  
( 20)  size:INT  
( 22)  visitorcount:INT  
( 24)  sigtask:PTR TO tc  
( 28)  sigbit:CHAR  
( 29)  pad1:CHAR  
(----) ENDOBJECT      /* SIZEOF=30 */  
  
(----) OBJECT extnewscreen  
(  0)  leftedge:INT  
(  2)  topedge:INT  
(  4)  width:INT  
(  6)  height:INT  
(  8)  depth:INT  
( 10)  detailpen:CHAR  
( 11)  blockpen:CHAR  
( 12)  viewmodes:INT  
( 14)  type:INT  
( 16)  font:PTR TO textattr  
( 20)  defaulttitle:PTR TO CHAR  
( 24)  gadgets:PTR TO gadget  
( 28)  custombitmap:PTR TO bitmap  
( 32)  extension:PTR TO tagitem  
(----) ENDOBJECT      /* SIZEOF=36 */  
  
(----) OBJECT ns
```

```
( 0) leftedge:INT
( 2) topedge:INT
( 4) width:INT
( 6) height:INT
( 8) depth:INT
(10) detailpen:CHAR
(11) blockpen:CHAR
(12) viewmodes:INT
(14) type:INT
(16) font:PTR TO textattr
(20) defaulttitle:PTR TO CHAR
(24) gadgets:PTR TO gadget
(28) custombitmap:PTR TO bitmap
(----) ENDOBJECT      /* SIZEOF=32 */

(----) OBJECT screen
( 0) nextscreen:PTR TO screen
( 4) firstwindow:PTR TO window
( 8) leftedge:INT
(10) topedge:INT
(12) width:INT
(14) height:INT
(16) mousey:INT
(18) mousex:INT
(20) flags:INT
(22) title:PTR TO CHAR
(26) defaulttitle:PTR TO CHAR
(30) barheight:CHAR
(31) barvborder:CHAR
(32) barhborder:CHAR
(33) menuvborder:CHAR
(34) menuhborder:CHAR
(35) wborleft:CHAR
(36) wborleft:CHAR
(37) wborright:CHAR
(38) wborbottom:CHAR
(40) font:PTR TO textattr
(44) viewport:viewport (or ARRAY OF viewport)
(84) rastport:rastport (or ARRAY OF rastport)
(184) bitmap:bitmap (or ARRAY OF bitmap)
(224) layerinfo:layer_info (or ARRAY OF layer_info)
(326) firstgadget:PTR TO gadget
(330) detailpen:CHAR
(331) blockpen:CHAR
(332) savecolor0:INT
(334) barlayer:PTR TO layer
(338) extdata:PTR TO CHAR
(342) userdata:PTR TO CHAR
(----) ENDOBJECT      /* SIZEOF=346 */

(----) OBJECT drawinfo
( 0) version:INT
( 2) numpens:INT
( 4) pens:PTR TO INT
( 8) font:PTR TO textfont
(12) depth:INT
(14) resolutionx:INT
```

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```
( 16)    resolutiony:INT
( 18)    flags:LONG
( 22)    checkmark:PTR TO image
( 26)    amigakey:PTR TO image
( 30)    longreserved[5]:ARRAY OF LONG
(----) ENDOBJECT      /* SIZEOF=50 */
```

```
CONST SA_SYSFONT=$8000002C,
      SA_FONT=$8000002B,
      SA_DETAILPEN=$80000026,
      BARDETAILPEN=9,
      FILLPEN=5,
      DETAILPEN=0,
      SA_COLORMAPENTRIES=$8000003C,
      SA_TYPE=$8000002D,
      SCREENTYPE=15,
      PSNF_PRIVATE=1,
      OSCAN_STANDARD=2,
      SPOS_RELATIVE=0,
      SA_DUMMY=$80000020,
      SDEPTH_TOBACK=1,
      POPPUBSCREEN=2,
      CUSTOMSCREEN=15,
      PUBLICSCREEN=2,
      WBENCHSCREEN=1,
      SA_ERRORCODE=$8000002A,
      SA_PUBTASK=$80000031,
      SA_AUTOSCROLL=$80000039,
      AUTOSCROLL=$4000,
      SPOS_ABSOLUTE=1,
      OSERR_NOMEM=3,
      OSERR_ATTACHFAIL=8,
      NS_EXTENDED=$1000,
      SA_DISPLAYID=$80000032,
      SA_MINIMIZEISG=$80000049,
      SA_QUIET=$80000038,
      SCREENQUIET=$100,
      SA_VIDEOCONTROL=$80000044,
      SDEPTH_INFAMILY=2,
      SA_INTERLEAVED=$80000042,
      HIGHLIGHTTEXTPEN=8,
      BACKGROUNDPEN=7,
      FILLTEXTPEN=6,
      TEXTPEN=2,
      OSERR_NOCHIPS=2,
      PEN_C0=$FEFF,
      PEN_C1=$FEFE,
      PEN_C2=$FEFD,
      PEN_C3=$FEFC,
      SDEPTH_TOFRONT=0,
      OSERR_NOTAVAILABLE=9,
      SA_DRAGGABLE=$8000003E,
      SA_PUBSIG=$80000030,
      SA_COLORS=$80000029,
      SPOS_FORCEDRAG=4,
      BARTRIMPEN=11,
      OSCAN_TEXT=1,
```

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```
SA_OBSOLETE1=$80000035,
PENSHARED=$400,
SA_SHOWTITLE=$80000036,
SA_TITLE=$80000028,
SHOWTITLE=16,
SHANGHAI=1,
SHADOWPEN=4,
SA_BLOCKPEN=$80000027,
BARBLOCKPEN=10,
BLOCKPEN=1,
OSERR_NOCHIPMEM=4,
BEEPING=$20,
SA_COLORS32=$80000043,
SA_PARENT=$8000003D,
SA_EXCLUSIVE=$8000003F,
SA_TOP=$80000022,
SPOS_MAKEVISIBLE=2,
SA_FULLPALETTE=$8000003B,
OSERR_UNKNOWNMODE=6,
SA_LIKEWORKBENCH=$80000047,
SA_HEIGHT=$80000024,
STDSCREENHEIGHT=-1,
SA_RESERVED=$80000048,
SHINEPEN=3,
SA_BACKCHILD=$80000046,
SA_FRONTCHILD=$80000045,
OSERR_PUBNOTUNIQUE=5,
SA_LEFT=$80000021,
SDEPTH_CHILDONLY=2,
OSERR_NOMONITOR=1,
SA_SHAREPENS=$80000040,
SA_PENS=$8000003A,
NUMDRIPENS=12,
OSCAN_VIDEO=4,
SA_OVERSCAN=$80000034,
SCREENHIRES=$200,
SA_DEPTH=$80000025,
SA_BEHIND=$80000037,
SCREENBEHIND=$80,
DRIB_NEWLOOK=0,
DRIF_NEWLOOK=1,
SA_WIDTH=$80000023,
STDSCREENWIDTH=-1,
OSCAN_MAX=3,
SA_DCLIP=$80000033,
SA_BACKFILL=$80000041,
DRI_VERSION=2,
SB_COPY_BITMAP=2,
SB_SCREEN_BITMAP=1,
SA_BITMAP=$8000002E,
CUSTOMBITMAP=$40,
OSERR_TOODEEP=7,
MAXPUBSCREENNAME=$8B,
SA_PUBNAME=$8000002F
```