## LINE-A Function Reference

The Atari Compendium

## \$A000 - Initialize

Return pointers to the Line-A variable structures.

| EXAMPLE | ; Retrieve Line-A variable table address |
| :--- | :--- |
| BINDING | ; and store in A5 for other bindings |


| .dc.w | \$A000 |  |
| :--- | :--- | :--- |
| .move.l | a0,a5 | ; Line-A variables |
| .move.l | a1,a6 | ; System font headers |

Return Value The initialize function returns the following information:

## Register Contents

| D0 | Pointer to Line-A variable table. |
| :--- | :--- |
| A0 | Pointer to Line-A variable table. |
| A1 | Pointer to a NULL terminated array of pointers to system font headers. |
| A2 | Pointer to a longword array containing sixteen pointers which are addresses of <br> the actual Line-A functions in memory. For example, JSR'ing through the <br> pointer in the first array element has the same result as calling the Initialize <br> instruction by an exception except that the function must be called from <br> supervisor mode. |

## Comments

This call is required to return the address of the Line-A variable structure needed for all other Line-A calls. All processes (including the VDI) share this structure so don't expect variables to remain constant between calls.

## See Also $\quad$ _opnvwk()

## \$A001 - Plot Pixel

Plot a single pixel at the specified coordinates.

Parameters | INTIN points to a WORD containing the color register of the pixel to plot at the |
| :--- |
| specified coordinates. PTSIN points to two WORD |
| coordinates respectively. | which are the X and Y

EXAMPLE ; Plot a pixel at ( 10, 10 ) using color 1
Binding

| move.l | \#intin, 8(a5) |
| :--- | :--- |
| move.l | \#ptsin, 12 (a5) |
| .dc.w | \$A001 |
| .data |  |
| .dc.w | 1 |

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.dc.w
10, 10

## See Also v_pmarker()

## \$A002 - Get Pixel

Get the color register of the pixel at the specified coordinates.

```
Parameters PTSIN points to two words which are the }\textrm{X}\mathrm{ and Y coordinates of the pixel to read.
```

```
; Read the color index of point ( 10, 10 )
```

; Read the color index of point ( 10, 10 )
Binding

```

Return Value The color register of the pixel is returned in D0.
See Also v_getpixel()

\section*{\$A003 - Arbitrary Line}

Draw a line between any two coordinates.

Parameters COLBIT0-4 are set appropriately to determine the line color. LSTLIN is a flag in which a value of 0 specifies to draw the last point in each line or a value of 1 which specifies not to. \(L N M A S K\) specifies the pattern mask to apply to the line. WRMODE specifies the write mode of the function (0-3). ( \(X 1, Y 1\) ), and ( \(X 2, Y 2\) ) give the starting and ending coordinates of the line.

EXAMPLE ; Draw a solid line from ( 0,0 ) to ( 100,100 )
Binding


\section*{Caveats \(\quad L N M A S K\) is modified as a result of this call.}

See Also \$A004, v_pline()

\section*{\$A004 - Horizontal Line}

Draw a horizontal line between the specified coordinates.
Parameters COLBITO-3 defines the color of the line and WRMODE determines the write mode (0-3). ( \(X 1, Y 1\) ) and ( \(X 2, Y 1\) ) determine the starting and ending points of the line. \(P A T M S K\) is AND'ed with \(Y 1\) to determine a line index into the pattern pointed to by PATPTR. PATMSK is normally the number of lines in the pattern (should be an even power of 2) minus one. If \(M F I L L\) is non-zero, \(W M O D E\) is disregarded and the fill is colored from the values in COLBITO-3.

EXAMPLE ; Draw a horizontal dashed line from ( 0,10 ) to ( 100 , 10 )
Binding


See Also v_pline()

\section*{\$A005 - Filled Rectangle}

Draw a filled rectangle at the specified coordinates.

Parameters \(\quad C L I P\) is a flag which when set to 1 enables clipping and when set to 0 disables it. All output of this function is confined to the region bounded by ( XMINCL, YMINCL ) and ( XMAXCL, YMAXCL ). Other parameters are consistent with the definitions given under \$A004.
```

EXAMPLE ; Draw a filled rectangle with its upper
Binding
; left corner at ( 0, 0 ) and its lower
; right corner at ( 100, 100 ). Clip the
; rectangle to within ( 10, 10 ) and
; ( 90, 90 )
move.w \#1,24(a5) ; COLBIT0

```

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\begin{tabular}{|c|c|c|c|}
\hline & move.w & \#1,26(a5) & ; COLBIT1 \\
\hline & move.w & \#1,28(a5) & ; COLBIT2 \\
\hline & move.w & \#1,30 (a5) & ; COLBIT3 \\
\hline & move.w & \#0,36(a5) & ; WRMODE \\
\hline & move.w & \#0,38(a5) & ; X1 \\
\hline & move.w & \#0,40 (a5) & ; Y1 \\
\hline & move.w & \#100,42 (a5) & ; X2 \\
\hline & move.w & \#100,44(a5) & ; Y2 \\
\hline & move.l & \#stipple,46(a5) & ; PATPTR \\
\hline & move.w & \#1,50(a5) & ; PATMSK \\
\hline & move.w & \#0,52(a5) & ; MFILL \\
\hline & move.w & \#1,54 (a5) & ; CLIP \\
\hline & move.w & \#10,56(a5) & ; XMINCL \\
\hline & move.w & \#10,58(a5) & ; YMINCL \\
\hline & move.w & \# 90, 60 (a5) & ; XMAXCL \\
\hline & move.w & \# 90, 62 (a5) & ; YMAXCL \\
\hline & . dc.w & \$A005 & \\
\hline & . data & & \\
\hline \multirow[t]{3}{*}{stipple:} & & & \\
\hline & . dc.w & \$AAAA & \\
\hline & .dc.w & \$5555 & \\
\hline
\end{tabular}

See Also v_bar(), vr_recfl()

\section*{\$A006 - Filled Polygon}

Draw a filled polygon line-by-line.

Parameters

Example
Binding

PTSIN contains the \(\mathrm{X} / \mathrm{Y}\) coordinate pairs of the vertices of the polygon with the last point being equal to the first. CONTRL[1] specifies the number of vertices. The rest of the variables are consistent with previous usages.
```

; Draw a filled polygon with vertices at
; (0, 0 ), ( 319, 120), and ( 25, 199 ).

```
\begin{tabular}{|c|c|c|}
\hline move.l & \#ptsin, 12 (a5) & ; PTSIN \\
\hline move.l & \#contrl,4(a5) & ; CONTRL \\
\hline move.w & \#1,24(a5) & ; COLBIT0 \\
\hline move.w & \#1,26(a5) & ; COLBIT1 \\
\hline move.w & \#1,28(a5) & ; COLBIT2 \\
\hline move.w & \#1,30 (a5) & ; COLBIT3 \\
\hline move.w & \#0,36(a5) & ; WRMODE \\
\hline move.w & \#stipple,46(a5) & ; PATPTR \\
\hline move.w & \#1,50(a5) & ; PATLEN \\
\hline move.w & \#0,52(a5) & ; MFILL \\
\hline move.w & \#0,54(a5) & ; CLIP \\
\hline \multicolumn{3}{|l|}{; loop to draw the polygon} \\
\hline move.w & \#0,40 (a5) & ; upper Y line \\
\hline move.w & \#199,d4 & ; lowest Y line \\
\hline & & ; - upper Y line \\
\hline
\end{tabular}
loop:
.dc.w \$A006
addq.w \#1,40(a5)
```

dbra d4,loop
.data
ptsin:
.dc.w 0, 0, 319, 120, 25, 199, 0, 0
contrl:
.dc.w
stipple:
.dc.w
\$AAAA
.dc.w \$5555

```

Caveats Register A0, X1, and \(X 2\) are destroyed as a result of this call.

\section*{See Also v_fillarea()}

\section*{\$A007 - BitBlt}

Perform a bit-block transfer.

\section*{Parameters}

The address of a BitBlt parameter block is passed in register A6. That structure is defined with the following members:
\begin{tabular}{|l|c|l|}
\hline Member & \multicolumn{1}{c}{ Offset/Type } & \multicolumn{1}{l|}{ Meaning } \\
\hline B_WD & +0 (WORD) & Width of block to blit (in pixels) \\
\hline B_HT & +2 (WORD) & Height of block to blit (in pixels) \\
\hline PLANE_CT \(\dagger\) & +4 (WORD) & Number of bit planes to blit. \\
\hline FG_COL \(\dagger\) & +6 (WORD) & \begin{tabular}{l} 
Bit array used to create index into OP_TAB. FG_COL \\
contributes its bit \#'n' (where 'n' is the plane number) to bit \\
\#1 of the index used to select the operation code from \\
OP_TAB.
\end{tabular} \\
\hline BG_COL† & +8 (WORD) & \begin{tabular}{l} 
Bit array used to create index into OP_TAB. BG_COL \\
contributes its bit \#'n' (where 'n' is the plane number) to bit \\
\#0 of the index used to select the operation code from \\
OP_TAB.
\end{tabular} \\
\hline OP_TAB & +10 (LONG) & \begin{tabular}{l} 
OP_TAB is a 4 byte array containing four logic operation \\
codes (0 to 16) to be applied to the image. The table is \\
indexed by using the bit in FG_COL and BG_COL \\
corresponding to the current plane as bit \#1 and bit \#0 \\
respectively yielding an offset into OP_TAB of 0-3.
\end{tabular} \\
\hline S_XMIN & +14 (WORD) & X pixel offset to source upper left. \\
\hline S_YMIN & +16 (WORD) & Y pixel offset to source upper left. \\
\hline S_FORM & +18 (WORD) & Address of the source form. \\
\hline S_NXWD & +22 (LONG) & Number of bits per pixel. \\
\hline S_NXLN & +24 (WORD) & Byte width of form. \\
\hline S_NXPL & +26 (WORD) & Byte offset between planes (always 2). \\
\hline D_XMIN & +28 (WORD) & X pixel offset to destination upper left. \\
\hline D_YMIN & +30 (WORD) & Y pixel offset to destination upper left. \\
\hline
\end{tabular}

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\begin{tabular}{|l|c|l|}
\hline D_FORM & +32 (LONG) & Address of the destination form. \\
\hline D_NXWD & +36 (WORD) & Number of bits per pixel. \\
\hline D_NXLN & +38 (WORD) & Byte width of form. \\
\hline D_NXPL & +40 (WORD) & Byte offset between planes (always 2). \\
\hline P_ADDR & +42 (LONG) & Address of pattern buffer (0 = no pattern). \\
\hline P_NXLN & +46 (WORD) & Bytes of pattern per line (should be even). \\
\hline P_NXPL & +48 (WORD) & \begin{tabular}{l} 
Bytes of pattern per plane (if using a single plane fill with a \\
multi-plane destination, this should be 0).
\end{tabular} \\
\hline P_MASK & +50 (WORD) & \begin{tabular}{l} 
P_MASK is found by the expression: \\
If P_NXLN = \(\mathbf{R}^{\wedge} \mathrm{n}\) then \\
\(\mathbf{P \_ M A S K ~ = ~ ( l e n g t h ~ i n ~ w o r d s ~ - ~ 1 ) ~ \ll ~ n ~}\)
\end{tabular} \\
\hline SPACE & +52 (WORD) & \begin{tabular}{l}
24 bytes of blank space which must be reserved as work \\
area for the function.
\end{tabular} \\
\hline
\end{tabular}
\(\dagger\) These members may be altered by this function.
\begin{tabular}{ll} 
EXAMPLE & ; Perform a blit using the information located \\
BINDING & ; at bprmblk
\end{tabular}
\begin{tabular}{lc} 
lea & bprmblk,a6 \\
.dc.w & \(\$ A 007\)
\end{tabular}

See Also vro_cpyfm(), vrt_cpyfm()

\section*{\$A008 - TextBlt}

Blit a single character to the screen.
Parameters When performing this call, the following Line-A variables are evaluated:
\begin{tabular}{|l|l|}
\hline Variable & Meaning \\
\hline WMODE & Writing mode (see comments below). \\
\hline \begin{tabular}{l} 
CLIP, \\
XMINCL, \\
YMINCL, \\
XMAXCL, \\
YMAXCL
\end{tabular} & Standard clipping flags and extents. \\
\hline XDDA & \begin{tabular}{l} 
Scaling accumulator (should be initialized to \$8000 prior to each TextBIt call \\
when scaling).
\end{tabular} \\
\hline DDAINC & \begin{tabular}{l} 
This amount specifies the fractional amount to scale the character outputted \\
by. If scaling down, this value may by found by the formula: \\
\(0 \times 100\) * scaled size / actual size
\end{tabular} \\
If scaling up, this value may be found with the formula: \\
\(0 \times 100\) * (scaled size - actual size) / actual size
\end{tabular}

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\begin{tabular}{|l|l|}
\hline MONO & If 1 set to monospacing mode, if 0 set to proportional spacing mode. \\
\hline \begin{tabular}{l} 
SOURCEX, \\
SOURCEY
\end{tabular} & \begin{tabular}{l} 
SOURCEX is the pixel offset into the font form of the character you wish to \\
render. SOURCEY is usually 0 indicating that you wish to render the character \\
from the top.
\end{tabular} \\
\hline \begin{tabular}{l} 
DESTX, \\
DESTY
\end{tabular} & \begin{tabular}{l} 
DESTX and DESTY specify the destination screen coordinates of the \\
character.
\end{tabular} \\
\hline DELX, DELY & DELX and DELY specify the width and height of the character to print. \\
\hline FBASE & Pointer to start of font data. \\
\hline FWIDTH & Width of font form. \\
\hline STYLE & \begin{tabular}{l} 
STYLE is a mask of the following bits indicating special effects: \\
0x01 = Bold \\
0x02 = Light \\
0x04 = Italic \\
0x08 = Underlined \\
0x10 = Outlined
\end{tabular} \\
\hline LITEMASK & Mask used to lighten text (usually \$5555). \\
\hline SKEWMAS & \begin{tabular}{l} 
Mask used to italicize text (usually \(\$ 5555\) ). \\
K
\end{tabular} \\
\hline WEIGHT & Width by which to thicken boldface text (should be set from font header). \\
\hline ROFF & Offset above character baseline when skewing (set from font header). \\
\hline LOFF & Offset below character baseline when skewing (from font header). \\
\hline SCALE & Scaling flag (0 = no scaling, 1 = scale text). \\
\hline CHUP & Character rotation vector (may be 0, 900, 1800, or 2700). \\
\hline TEXTFG & Text foreground color. \\
\hline SCRTCHP & \begin{tabular}{l} 
Pointer to start of text special effects buffer (should be twice as large as the \\
largest distorted character and is only required when using a special effect).
\end{tabular} \\
\hline SCRPT2 & Offset of scaling buffer in SCRTCHP (midpoint). \\
\hline TEXTBG & Text background color. \\
\hline
\end{tabular}
\(\begin{array}{ll}\text { EXAMPLE } & \text {; Print a NULL-terminated string with } \\ \text { BINDING } & \text {; no effects or clipping }\end{array}\)
\begin{tabular}{|c|c|c|}
\hline move.w & \# 0, 36 (a5) & ; WMODE \\
\hline move.w & \#0,54 (a5) & ; CLIP \\
\hline move.w & \#1, 106 (a5) & ; TEXTFG \\
\hline move.w & \#0, 114 (a5) & ; TEXTBG \\
\hline move.w & \#100, 76 (a5) & ; DESTX \\
\hline move.w & \#100, 78 (a5) & ; DESTY \\
\hline move.w & \# 4, 90 (a5) & ; STYLE \\
\hline move.w & \# 0, 102 (a5) & ; SCALE \\
\hline move.w & \#1, 70 (a5) & ; MONO \\
\hline \multicolumn{3}{|l|}{; Find the \(8 \times 8\) font} \\
\hline move.w & \(4(a 6), a 6\) & \begin{tabular}{l}
; Address of \(8 x 8\) \\
; font
\end{tabular} \\
\hline move.w & \(76(\mathrm{a} 6), 84(\mathrm{a} 5)\) & ; FBASE \\
\hline move.w & \(80(\mathrm{a} 6), 88(\mathrm{a} 5)\) & ; FWIDTH \\
\hline move.w & \(82(\mathrm{a} 6), 82(\mathrm{a} 5)\) & ; DELY \\
\hline ; Print the string & & \\
\hline lea & string, a2 & \\
\hline move.l & 72 (a6) , a 3 & ; Offset table \\
\hline
\end{tabular}

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```

print:
move.b
ble
sub.w
lsl.w
move.w
move.w
sub.w
move.w
moveq.l
movem.l
.dc.w
movem.l
bra
end:
string:
moveq.l
rts
.data
.dc.b

```
```

\#0,d0
(a2)+,d0 ; Get next char
end
36(a6),d0 ; Fix offset
\#1,d0 ; Double for
WORD offset
0(a3,d0),72(a5) ; SOURCEX
2(a3,d0),d0 ; x of next char
72(a5),d0 ; get true width
d0,80(a5) ; DELX
\#0,74(a5) ; SOURCEY
a0-a2,-(sp) ; Save a0-a2
\$A008
(a7)+,a0-a2 ; Restore regs
print
"The Atari Compendium",0

```

Comments

See Also v_gtext()

\section*{\$A009 - Show Mouse}

Show the mouse cursor.
The value for \(W M O D E\) is a special case with TextBlt. Values from 0-3 translate to the standard VDI modes. Values from 4-19 translate to the BitBlt modes 0-15.
```

v_gtext()

```

Example
Binding

\author{
Parameters
}

No parameters required. Optionally, INTIN can be made to point to a WORD value of 0 to force the mouse cursor to be displayed regardless of the number of times it was hidden.
```

; Show the mouse regardless of the number

```
; Show the mouse regardless of the number
; of times it was hidden
; of times it was hidden
\begin{tabular}{lll} 
move.l & \begin{tabular}{l} 
\#intin,8(a5) \\
.dc.w
\end{tabular} & \$A009 \\
.data & \\
.dc.w & 0 &
\end{tabular}
```


## Comments

See Also v_show_c(), graf_mouse()

## \$A00A - Hide Mouse

Hide the mouse cursor.
EXAMPLE ; Remove the mouse from the screen

BINDING $\quad$.dc.w | \$A00A |
| :--- |$~$

## Comments See 'Show Mouse'.

See Also v_hide_c(), graf_mouse()

## \$A00B - Transform Mouse

Change the mouse's form.
Parameters On entry INTIN should point to a structure containing the new mouse form data. The format of the structure is defined under the entry for vsc_form().

| EXAMPLE | ; Change the mouse form to the data held in |  |
| :--- | :---: | :--- |
| BINDING | ; the newmouse structure. |  |
|  | move.b | $-339(a 5)$, do |

Comments The old data can be saved from the information stored in the Line-A variable table at offset -356 . To avoid 'mouse droppings' you should disable mouse interrupts by setting MOUSE_FLAG (offset -339) to 0 and restoring it when done.

See Also vsc_form(), graf_mouse()

## \$A00C - Undraw Sprite

Undraw a previously drawn sprite.

$$
\begin{array}{ll}
\text { Parameters } & \text { Prior to calling this function, A2 should be loaded with a pointer to the 'sprite } \\
\text { save block' defined when drawing the sprite. For the format of this data, see } \\
\text { 'Draw Sprite' }
\end{array}
$$

EXAMPLE ; 'Undraw' sprite previously drawn from data

BINDING ; stored in savesprite.

$$
\begin{array}{lc}
\text { lea } & \text { savesprite,a2 } \\
. \text { dc.w } & \$ A 00 C
\end{array}
$$

Caveats $\quad$ Register A6 is destroyed as a result of this call.
Comments When 'undrawing' sprites, they should be removed in reverse order of drawing to avoid the possibility of creating garbage on screen.

## \$A00D - Draw Sprite

Draw a $16 \times 16$ sprite on the screen.

## Parameters

| Offset/Type | Meaning |
| :---: | :--- |
| 0x0000 <br> (WORD) | X offset of 'hot spot'. This value is subtracted from the value given in D0 to <br> yield the actual screen position of the upper-left pixel. |
| 0x0002 <br> (WORD) | Y offset of 'hot spot'. This value is subtracted from the value given in D1 to <br> yield the actual screen position of the upper-right pixel. |
| 0x0004 <br> (WORD) | Format flag. This value specifies the mode in which the mouse pointer will be <br> drawn. A value of 1 specifies 'VDI mode' whereas -1 specifies X-OR mode. <br> The default is 1. |
| 0x0006 <br> (WORD) | Background color of sprite. |
| 0x0008 <br> (WORD) | Foreground color of sprite. |
| 0x000A <br> (32 WORDs) | Sprite form data. The bitmap data consists of two 16x16 rasters, one each <br> for the mask and data portion of the form. The data is presented in <br> interleaved format. The first WORD of the mask portion is first, followed by <br> the first WORD of the data portion, and so on. |

Register A2 is a pointer to a buffer which will be used to save the screen area where the sprite is drawn. The size of the buffer can be determined by the following formula:

$$
(10+(\text { VPLANES } * 64))
$$

Prior to calling this function, four 68 x 00 registers must be initialized. D0 and D1 should contain the horizontal and vertical position respectively of the coordinates of the sprite to draw. This is relative to the 'hot spot' of the sprite as defined in the sprite definition block.

A0 should contain a pointer to a sprite definition block defined as follows:

```
; Draw a sprite at ( 100, 100 ) whose data
; is stored at spritedef with a valid save
; buffer at savebuf.
```

move.w \#100,d0 ; X position

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| move.w | \#100,d1 | ; Y position |
| :--- | :--- | :---: |
| move.l | \#spritedef,a0 | ; Sprite form |
| move.l | \#savebuf, a2 | ; Save buffer |
| .dc.w | \$A00D |  |

## Caveats Register A6 is destroyed as a result of this call.

Comments In order to avoid the mouse form running into any sprites you draw, the mouse should be hidden before drawing and restored afterwards. It may also be advisable to call Vsync() prior to each call to avoid screen flicker.

## \$A00E - Copy Raster

Copy a raster form using opaque or transparent mode.

## Parameters INTIN should point to a WORD array whose first entry specifies the write mode

 of the operation. In transparent mode, this is a VDI standard mode (0-3), however in opaque mode the full range of BitBlt modes (0-15) are available. In transparent mode, the second and third array entries of INTIN contain the foreground and background color of the destination copy respectively.CONTRL should point to a memory buffer which is filled in with the source and destination MFDB's (Memory Form Definition Block's) at offsets 14 and 18 respectively. The structure of an MFDB is discussed under vro_cpyfm().

PTSIN should point to an array of 8 WORD's containing the pixel offsets for the blit in the order SX1, SY1, SX2, SY2, DX1, DY1, DX2, DY2.

COPYTRAN specifies the write mode. A value of 0 indicates an opaque copy while a value of 1 indicates a transparent copy.

The settings for CLIP, XMINCL, YMINCL, XMAXCL, and YMAXCL are utilitized by this call.
EXAMPLE ; Copy a $32 \times 32$ raster form 'myrast' from a BINDING
; buffer in memory to the ST medium resolution
; buffer in memory to the ST medium resolution
; screen at (100, 100 ) using transparent mode.
; screen at (100, 100 ) using transparent mode.
move.l \#contrl,4(a5) ; CONTRL
move.l \#contrl,4(a5) ; CONTRL
move.l \#srcmfdb,contrl+14
move.l \#srcmfdb,contrl+14
move.l \#destmfdb,contrl+18
move.l \#destmfdb,contrl+18
move.l \#intin,4(a5) ; INTIN
move.l \#intin,4(a5) ; INTIN
move.l \#ptsin,4(a5) ; PTSIN
move.l \#ptsin,4(a5) ; PTSIN
move.w \#1,116(a5) ; COPYTRAN
move.w \#1,116(a5) ; COPYTRAN
move.w \#0,54(a5) ; CLIP
move.w \#0,54(a5) ; CLIP
; Fill in some info for MFDB's
; Fill in some info for MFDB's

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Comments For a more indepth explanation, refer to the VDI calls parallel to these, vro_cpyfm() and vrt_cpyfm().

See Also vro_cpyfm(), vrt_cpyfm()

## \$A00F - Seed Fill

Seed fill an irregularly shaped region.
Parameters INTIN points to a word value which specifies the mode of this function. If the value is negative, color mode is used. In color mode, the fill spreads from the initial point until it hits a color other than that of the initial point. If the value is positive, outline mode is used. It then is interpreted as the VDI color index value at which to stop the fill.

PTSIN points to an array of two WORD $_{\text {s }}$ which specify the X and Y coordinates respectively of the inital fill point.

CUR_WORK should point to a WORD array of 16 words with the sixteenth WORD being the fill color specified as a VDI color index.
$W M O D E$ specified the VDI writing mode of the fill (0-3). PATPTR and PATMSK
define the fill pattern (as defined in 'Horizontal Line').
SEEDABORT points to a user routine which can abort the fill, if desired, when called. This routine is called once for each line of the fill. It should zero register D0 to continue or place a non-zero value in it to abort.

```
Example
Binding
```

```
; Seed fill an area starting at ( 100, 100 )
```

; Seed fill an area starting at ( 100, 100 )
; in color mode with a clip region defined
; in color mode with a clip region defined
; as the VDI rectangle ( 50, 50 ), ( 200, 200 ).
; as the VDI rectangle ( 50, 50 ), ( 200, 200 ).
move.l \#intin,8(a5) ; INTIN
move.l \#ptsin,12(a5) ; PTSIN
move.l \#cur_work,-464(a5) ; CUR_WORK
move.l \#seedabort,118(a5) ; SEEDABORT
move.w \#0,36(a5) ; WMODE
move.l \#stipple,46(a5) ; PATPTR
move.w \#0,50(a5) ; PATMASK
move.w \#0,52(a5) ; MFILL
move.w \#50,56(a5) ; XMINCL
move.w \#50,58(a5) ; YMINCL
move.w \#200,60(a5) ; XMAXCL
move.w \#200,62(a5) ; YMAXCL
seedabort:
moveq.l \#0, d0 ; Clear D0
rts
.data
intin:
ptsin:
.dc.w
cur_work:
.dc.w
.dc.w
stipple:
.dc.w \$AAAA
.dc.w \$5555

```

Comments

See Also

The clipping variables XMINCL, YMINCL, XMAXCL, and YMAXCL must always be set as they are interpreted regardless of the clipping flag.```

