## **LINE-A Function Reference**

#### \$A000 - Initialize

Return pointers to the Line-A variable structures.

EXAMPLE	; Retrieve Line-A variab	le table addr	ess
BINDING	; and store in A5 for ot	her 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 <b>NULL</b> terminated array of pointers to system font headers.
A2	Pointer to a longword array containing sixteen pointers which are addresses of the actual <b>Line-A</b> functions in memory. For example, JSR'ing through the pointer in the first array element has the same result as calling the <b>Initialize</b> instruction by an exception except that the function must be called from 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 v\_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**s which are the X and Y coordinates respectively.

EXAMPLE	; Pl	ot a	pixel	at (	10,	10	using	color	1
Binding			mc 	ove.l ove.l dc.w			#int: #pts: \$A00:	in,8(a in,12( 1	5) a5)
	1 m m 1		.0	lata					
	Inci	п. 		lc.w			1		
	ptsi	n:							

.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 X and Y coordinates of the pixel to read.

EXAMPLE ; Read the color index of point (10, 10) BINDING move.1 #ptsin,12(a5) .dc.w \$A002 .data ptsin: .dc.w 10, 10

**RETURN VALUE** The color register of the pixel is returned in D0.

SEE ALSO v\_getpixel()

#### \$A003 - Arbitrary Line

Draw a line between any two coordinates.

**PARAMETERS** *COLBITO-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. *LNMASK* specifies the pattern mask to apply to the line. *WRMODE* specifies the write mode of the function (0-3). (*X1*, *Y1*), and (*X2*, *Y2*) give the starting and ending coordinates of the line.

EXAMPLE	;Draw a solid line	e from ( 0, 0 ) to	( 100, 100 )
BINDING	move.w	#1,24(a5)	; COLBIT 0
	move.w	#1,26(a5)	; COLBIT 1
	move.w	#1,28(a5)	; COLBIT 2
	move.w	#1,30(a5)	; COLBIT 3
	move.w	#0,32(a5)	; LSTLIN
	move.w	#\$FFFF,34(a5)	; LNMASK
	move.w	#0,36(a5)	; WRMODE
	move.w	#0,38(a5)	; X1
	move.w	#0,40(a5)	; Y1
	move.w	#100,42(a5)	; X2
	move.w	#100,42(a5)	; Y2
	.dc.w	\$A003	

**CAVEATS** *LNMASK* is modified as a result of this call.

SEE ALSO \$A004, v\_pline()

#### \$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). (X1, Y1) and (X2, Y1) determine the starting and ending points of the line. PATMSK is AND'ed with Y1 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 MFILL is non-zero, WMODE 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			
Bitelite	move.w	#1,24(a5)	; COLBIT 0
	move.w	#1,26(a5)	; COLBIT 1
	move.w	#1,28(a5)	; COLBIT 2
	move.w	#1,30(a5)	; COLBIT 3
	move.w	#0,36(a5)	; WRMODE
	move.w	#0,38(a5)	; X1
	move.w	#0,40(a5)	; Y1
	move.w	#100,42(a5)	; X2
	move.l	#pat,46(a5)	; PATPTR
	move.w	#0,50(a5)	; PATMSK
	move.w	#0,52(a5)	; MFILL
	.dc.w	\$A004	

SEE ALSO v\_pline()

#### \$A005 - Filled Rectangle

Draw a filled rectangle at the specified coordinates.

**PARAMETERS***CLIP* is a flag which when set to 1 enables clipping and when set to 0 disables it.<br/>All output of this function is confined to the region bounded by<br/>(XMINCL, YMINCL ) and (XMAXCL, YMAXCL ). Other parameters are<br/>consistent with the definitions given under \$A004.

EXAMPLE ; Draw a filled rectangle with its upper ; 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(a	i5) ; COLBITO
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	move.w	#1,26(a5)	;	COLBIT1
	move.w	#1,28(a5)	;	COLBIT2
	move.w	#1,30(a5)	;	COLBIT3
	move.w	#0,36(a5)	;	WRMODE
	move.w	#0,38(a5)	;	X1
	move.w	#0,40(a5)	;	Y1
	move.w	#100,42(a5)	;	X2
	move.w	#100,44(a5)	;	Y2
	move.l	<pre>#stipple,46(a5)</pre>	;	PATPTR
	move.w	#1,50(a5)	;	PATMSK
	move.w	#0,52(a5)	;	MFILL
	move.w	#1,54(a5)	;	CLIP
	move.w	#10,56(a5)	;	XMINCL
	move.w	#10,58(a5)	;	YMINCL
	move.w	#90,60(a5)	;	XMAXCL
	move.w	#90,62(a5)	;	YMAXCL
	.dc.w	\$A005		
	.data			
stipple:				
	.dc.w	\$AAAA		
	.dc.w	\$5555		

SEE ALSO v\_bar(), vr\_recfl()

#### \$A006 - Filled Polygon

Draw a filled polygon line-by-line.

**PARAMETERS***PTSIN* contains the X/Y coordinate pairs of the vertices of the polygon with the<br/>last point being equal to the first. *CONTRL[1]* specifies the number of vertices.<br/>The rest of the variables are consistent with previous usages.

Example Binding	; Draw a fil: ; ( 0, 0 ),	led polygon with w ( 319, 120 ), and	vertices at ( 25, 199 ).
	move.l	#ptsin,12(a5)	; PTSIN
	move.l	<pre>#contrl,4(a5)</pre>	; CONTRL
	move.w	#1,24(a5)	; COLBITO
	move.w	#1,26(a5)	; COLBIT1
	move.w	#1,28(a5)	; COLBIT2
	move.w	#1,30(a5)	; COLBIT3
	move.w	#0,36(a5)	; WRMODE
	move.w	<pre>#stipple,46(a5)</pre>	; PATPTR
	move.w	#1,50(a5)	; PATLEN
	move.w	#0,52(a5)	; MFILL
	move.w	#0,54(a5)	; CLIP
	; loop to dra	aw the polygon	
	move.w	#0,40(a5)	; upper Y line
	move.w	#199,d4	; lowest Y line
			; - upper Y line
	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 0, 3 stipple: .dc.w \$AAAA .dc.w \$5555

**CAVEATS** Register A0, *X1*, and *X2* are destroyed as a result of this call.

SEE ALSO v\_fillarea()

#### **\$A007 - BitBlt**

Perform a bit-block transfer.

**PARAMETERS** The address of a **BitBlt** parameter block is passed in register A6. That structure is defined with the following members:

Member	Offset/Type	Meaning
B_WD	+0 (WORD)	Width of block to blit (in pixels)
B_HT	+2 (WORD)	Height of block to blit (in pixels)
PLANE_CT†	+4 (WORD)	Number of bit planes to blit.
FG_COL†	+6 ( <b>WORD</b> )	Bit array used to create index into <b>OP_TAB</b> . <b>FG_COL</b> contributes its bit #'n' (where 'n' is the plane number) to bit #1 of the index used to select the operation code from <b>OP_TAB</b> .
BG_COL†	+8 ( <b>WORD</b> )	Bit array used to create index into <b>OP_TAB. BG_COL</b> contributes its bit #'n' (where 'n' is the plane number) to bit #0 of the index used to select the operation code from <b>OP_TAB</b> .
OP_TAB	+10 ( <b>LONG</b> )	<b>OP_TAB</b> 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 <b>FG_COL</b> and <b>BG_COL</b> corresponding to the current plane as bit #1 and bit #0 respectively yielding an offset into <b>OP_TAB</b> of 0-3.
S_XMIN	+14 (WORD)	X pixel offset to source upper left.
S_YMIN	+16 ( <b>WORD</b> )	Y pixel offset to source upper left.
S_FORM	+18 ( <b>WORD</b> )	Address of the source form.
S_NXWD	+22 (LONG)	Number of bits per pixel.
S_NXLN	+24 (WORD)	Byte width of form.
S_NXPL	+26 ( <b>WORD</b> )	Byte offset between planes (always 2).
D_XMIN	+28 (WORD)	X pixel offset to destination upper left.
D_YMIN	+30 (WORD)	Y pixel offset to destination upper left.

D_FORM	+32 (LONG)	Address of the destination form.
D_NXWD	+36 (WORD)	Number of bits per pixel.
D_NXLN	+38 (WORD)	Byte width of form.
D_NXPL	+40 (WORD)	Byte offset between planes (always 2).
P_ADDR	+42 ( <b>LONG</b> )	Address of pattern buffer (0 = no pattern).
P_NXLN	+46 ( <b>WORD</b> )	Bytes of pattern per line (should be even).
P_NXPL	+48 ( <b>WORD</b> )	Bytes of pattern per plane (if using a single plane fill with a multi-plane destination, this should be 0).
P_MASK	+50 ( <b>WORD</b> )	<b>P_MASK</b> is found by the expression:
		If <b>P_NXLN =</b> 2 ^ n then <b>P_MASK =</b> (length in words - 1) << n
SPACE	+52 ( <b>WORD</b> )	24 bytes of blank space which must be reserved as work area for the function.

†These members may be altered by this function.

EXAMPLE	;	Perform	a	blit	using	the	information	located
BINDING	'	at oprim	110	~				
				lea .dc.	. w	b	prmblk,a6 \$A007	

SEE ALSO vro\_cpyfm(), vrt\_cpyfm()

### \$A008 - TextBlt

Blit a single character to the screen.

PARAMETERS

When performing this call, the following Line-A variables are evaluated:

Variable	Meaning
WMODE	Writing mode (see comments below).
CLIP, XMINCL, YMINCL, XMAXCL, YMAXCL	Standard clipping flags and extents.
XDDA	Scaling accumulator (should be initialized to \$8000 prior to each <b>TextBlt</b> call when scaling).
DDAINC	This amount specifies the fractional amount to scale the character outputted by. If scaling down, this value may by found by the formula: 0x100 * scaled size / actual size If scaling up, this value may be found with the formula: 0x100 * (scaled size - actual size) / actual size This variable is only evaluated if scaling is active.
SCALDIR	Scaling direction $(1 = up, 0 = down)$ .

MONO	If 1 set to monospacing mode, if 0 set to proportional spacing mode.
SOURCEX,	<b>SOURCEX</b> is the pixel offset into the font form of the character you wish to
SOURCET	from the top.
DESTX,	DESTX and DESTY specify the destination screen coordinates of the
DESTY	character.
DELX, DELY	<b>DELX</b> and <b>DELY</b> specify the width and height of the character to print.
FBASE	Pointer to start of font data.
FWIDTH	Width of font form.
STYLE	STYLE is a mask of the following bits indicating special effects:
	0x01 = Bold
	0x02 = Light
	0x04 = Italic 0x08 = Underlined
	0x00 = 0 indefinition
LITEMASK	Mask used to lighten text (usually \$5555).
SKEWMAS	Mask used to italicize text (usually \$5555).
K	
WEIGHT	Width by which to thicken boldface text (should be set from font header).
ROFF	Offset above character baseline when skewing (set from font header).
LOFF	Offset below character baseline when skewing (from font header).
SCALE	Scaling flag ( $0 = no$ scaling, $1 = scale text$ ).
CHUP	Character rotation vector (may be 0, 900, 1800, or 2700).
TEXTFG	Text foreground color.
SCRTCHP	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).
SCRPT2	Offset of scaling buffer in SCRTCHP (midpoint).
TEXTBG	Text background color.

Example Binding

#### ; Print a NULL-terminated string with

; no effects or clipping

move.w	#0,36(a5)	; WMODE
move.w	#0,54(a5)	; CLIP
move.w	#1,106(a5)	; TEXTFG
move.w	#0,114(a5)	; TEXTBG
move.w	#100,76(a5)	; DESTX
move.w	#100,78(a5)	; DESTY
move.w	#4,90(a5)	; STYLE
move.w	#0,102(a5)	; SCALE
move.w	#1,70(a5)	; MONO
; Find the 8x8 font		
move.w	4(a6),a6	; Address of 8x8
		; font
move.w	76(a6),84(a5)	; FBASE
move.w	80(a6),88(a5)	; FWIDTH
move.w	82(a6),82(a5)	; DELY
: Print the string		
lea	string a?	
morel	72(a6) a3	: offget table
1110 VE.1	/2(40),45	, orract table

print.	moveq.l	#0,d0	
prine.	move.b ble	(a2)+,d0 end	; Get next char
	sub.w	36(a6),d0	; Fix offset
	lsl.w	#1,d0	; Double for ; WORD offset
	move.w	0(a3,d0),72(a5)	; SOURCEX
	move.w	2(a3,d0),d0	; x of next char
	sub.w	72(a5),d0	; get true width
	move.w	d0,80(a5)	; DELX
	moveq.l	#0,74(a5)	; SOURCEY
	movem.l .dc.w	a0-a2,-(sp) \$A008	; Save a0-a2
	movem.l	(a7)+,a0-a2	; Restore regs
and	bra r	print	
end	rts		
atring.	.data		
SCI IIIG.	.dc.b	"The Atari Compe	ndium",0

- **COMMENTS** The value for *WMODE* 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.
- SEE ALSO v\_gtext()

#### \$A009 - Show Mouse

Show the mouse cursor.

**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.

EXAMPLE ; Show the mouse regardless of the number BINDING ; of times it was hidden move.l #intin,8(a5) ; INTIN .dc.w \$A009 .data intin: .dc.w 0

**COMMENTS** 'Show' and 'Hide' mouse calls are nested, that is, in order to return the mouse cursor to its original state, it must be 'shown' the same number of times it was 'hidden'.

SEE ALSO v\_show\_c(), graf\_mouse()

#### \$A00A - Hide Mouse

Hide the mouse cursor.

COMMENTS	S	ee 'Show	v Mou	ıse'.			
Binding				.dc.w			\$A00A
EXAMPLE	;	Remove	the	mouse	from	the	screen

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().

```
; Change the mouse form to the data held in
EXAMPLE
                ; the newmouse structure.
BINDING
                            move.b
move.b
                                            -339(a5),d0 ; Save old value
                                           #0,-339(a5)
                                                           ; Disable mouse
                                                           ; interrupts
                            move.l
                                           #newmouse,8(a5) ; INTIN
                            .dc.w
                                            $A00B
                            move.b
                                            d0,-339(a5) ; Restore
                                                            ; MOUSE_FLAG
```

**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.

**PARAMETERS** Prior to calling this function, A2 should be loaded with a pointer to the 'sprite save block' defined when drawing the sprite. For the format of this data, see '**Draw Sprite**'

**EXAMPLE** ; 'Undraw' sprite previously drawn from data

BINDING	; stored in savesprite.					
	lea .dc.w	savesprite,a2 \$A00C				
CAVEATS	Register A6 is destroyed as a result of this call.					
Comments	When 'undrawing' sprites, they should be removed in reverse order of drawing avoid the possibility of creating garbage on screen.					

### \$A00D - Draw Sprite

Draw a 16x16 sprite on the screen.

**PARAMETERS** Prior to calling this function, four 68x00 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:

Offset/Type	Meaning
0x0000	X offset of 'hot spot'. This value is subtracted from the value given in D0 to
(WORD)	yield the actual screen position of the upper-left pixel.
0x0002	Y offset of 'hot spot'. This value is subtracted from the value given in D1 to
(WORD)	yield the actual screen position of the upper-right pixel.
0x0004	Format flag. This value specifies the mode in which the mouse pointer will be
(WORD)	drawn. A value of 1 specifies 'VDI mode' whereas -1 specifies X-OR mode.
	The default is 1.
0x0006	Background color of sprite.
(WORD)	
0x0008	Foreground color of sprite.
(WORD)	
0x000A	Sprite form data. The bitmap data consists of two 16x16 rasters, one each
(32 WORDs)	for the mask and data portion of the form. The data is presented in
	interleaved format. The first WORD of the mask portion is first, followed by
	the first <b>WORD</b> 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+(*VPLANES* \* 64))

#100,d0

EXAMPLE	;	Draw a spi	rite	at ( 100,	100	)	whose	data
BINDING	;	is stored	at s	spritedef	with	а	valid	save
DINDING	;	buffer at	save	ebuf.				

move.w

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move.w	#100,d1	; Y position
move.l	<pre>#spritedef,a0</pre>	; 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 Binding	; Copy a ; buffer ; screen	32x32 raster form 'my in memory to the ST n at ( 100, 100 ) using	yrast' from a medium resolution g transparent mode	
		move.l	<pre>#contrl,4(a5)</pre>	; CONTRL
		move.l	#srcmfdb,contrl+1	4
		move.l	<pre>#destmfdb,contrl+</pre>	18
		move.l	<pre>#intin,4(a5)</pre>	; INTIN
		move.l	<pre>#ptsin,4(a5)</pre>	; PTSIN
		move.w	#1,116(a5)	; COPYTRAN
		move.w	#0,54(a5)	; CLIP

; Fill in some info for MFDB's

move.l #myrast,srcmfdb ; Source raster #\$02,-(sp) ; Physbase() move.w trap #14 addq.l #2,sp move.l d0,destmfdb .dc.w \$A00E .data contrl: .dc.w 0, 0, 0, 0, 0, 0, 0, 0, 0, 0 int in: 0, 1, 0 .dc.w ptsin: 0, 0, 15, 15, 100, 100, 115, 115 .dc.w srcmfdb: 0, 0, 16, 16, 1, 0, 0, 0, 0, 0 .dc.w destmfdb: 0, 0, 320, 200, 16, 0, 2, 0, 0, 0 .dc.w myrast: .dc.w \$AAAA,\$AAAA,\$AAAA,\$AAAA .dc.w \$5555,\$5555,\$5555,\$5555 .dc.w \$AAAA,\$AAAA,\$AAAA,\$AAAA .dc.w \$5555,\$5555,\$5555,\$5555 .dc.w \$AAAA,\$AAAA,\$AAAA,\$AAAA .dc.w \$5555,\$5555,\$5555,\$5555 .dc.w \$AAAA,\$AAAA,\$AAAA,\$AAAA .dc.w \$5555,\$5555,\$5555,\$5555

**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**s which specify the X and Y coordinates respectively of the initial 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.

WMODE 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 ; in color m ; as the VDI	an area starting a ode with a clip re rectangle ( 50, 5	at ( 100, 100 ) ≥gion defined 50 ), ( 200, 200 ).	
		<pre>move.l move.l move.l move.w move.w</pre>	<pre>#intin,8(a5) #ptsin,12(a5) #cur_work,-464(a5) #seedabort,118(a5) #0,36(a5) #stipple,46(a5) #0,50(a5) #0,52(a5) #50,56(a5) #50,58(a5) #200,60(a5) #200,62(a5) #200,62(a5) \$A00F</pre>	; INTIN ; PTSIN ; CUR_WORK ; SEEDABORT ; WMODE ; PATPTR ; PATMASK ; MFILL ; XMINCL ; YMINCL ; XMAXCL ; YMAXCL
	seedabort:	moveq.l rts .data	#0, d0	; Clear DO
	<pre>intin: ptsin: cur_work:</pre>	.dc.w .dc.w	-1 100, 100	
	stipple:	.dc.w .dc.w .dc.w .dc.w	0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, \$AAAA \$5555	0 1
COMMENTS	The clipping va be set as they as	ariables XMINCL, YM re interpreted regardle	INCL, XMAXCL, and YMA ss of the clipping flag.	XCL must always

SEE ALSO v\_contourfill()