



Graphics Construction Kit

Ultronsoft

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GRAPHIC CONSTRUCTION KIT

AUTHORS

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INTRODUCTION

This program is not only a set of new SuperBASIC commands to enable you to utilize the graphic power of your QL, but to enable you to write graphic programs to suit your needs. In other words, putting power to your fingertips and letting your feet feel the raw power of your QL. Many people believe that the QL graphic capabilities have not yet been released. This program will help you to do exactly this.

Graphic Construction Kit lets you construct your own graphic programs to suit your own requirements.

For your own safety please make at least one backup copy by using LBUP ADV1_GCC_CDCN

To give you an overall idea how to write a graphics program there is a working example in BASIC and as a compiled version. By LOAD ADV1_BAS, then LOAD ADV1_GCC_1 LOAD the extensions by LOAD ADV1_BOOT Then LOAD ADV1_GCC_DIR for the BASIC version and ERIC_W_HWC1_GCC_1 for the compiled one.

The two sample programmes to give you ideas and to inspire you to write your own graphical program which is much better.

We have not written a handbook for the documentation purposes because that is exactly what they are. The programs have been tested and legal prosecution will be pursued in respect of any illegal or pirate copies.

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for the Sinclair QL

SCREEN MANAGEMENT

SCREEN MANAGEMENT allows you to handle up to 16 screen banks, currently containing numbered frames 0 to 15. Many commands are installed to work with complete screens and parts of them. In addition, it enables to process spectrum screens directly, allowing and aiding rapid conversion of screens made easy.

All the following commands do usually work with the whole main screen. For batch processing please refer to the appropriate section of the manual.

Commands:

SCP_1W SCP_CUT SWITCH BLANK
SCP_1R SCP_CIN INTR PICTURE
SCP_NR SCP_COUT SPCLOAD STATUS
SCP_1D

SCP_1W **SCP_CUT** **SWITCH** **BLANK**
SCP_1R **SCP_CIN** **INTR** **PICTURE**
SCP_NR **SCP_COUT** **SPCLOAD** **STATUS**
SCP_1D

SYNOPSIS: **SCP_1W** num_width,height,x,y,new_TMode
SCP_1R **SCP_NR** num
SCP_1D

DESCRIPTION:

- 1 This command transfers a specified screen display from a bank 1W to the main screen memory.
- 2 Alternatively a part of the screen bank may be transferred to the main screen.
- 3 The area requires variation of SCP_1R transfer to specified block from a screen bank to an absolute position in the main screen.

Examples:

1 SCP_1W 3 transfer bank 1 to the main screen
11 SCP_1R 0,256,128,128,64 transfer the middle quarter of bank 5 to the main screen position in the main screen.
111 SCP_1R 3,1024,0,1024,64 transfer a part from the upper left corner of bank 2 and puts it to the lower right corner of the main screen.

SCP_CUT
SCP_CIN
SCP_COUT
SCP_CIN
SCP_COUT

The same as SCP_1W

This command writes exactly in the opposite way as SCP_1W. i.e. it transfers screens or parts of it to a screen bank.

SWITCH

SYNOPSIS:

DETAIL:

SCREEN MANAGEMENT

SWITCH

SYNOPSIS:

DETAIL:

SWITCH

SYNOPSIS:

DETAIL:

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This command stretches a loaded spectrum between to the full DC value.

SYNTAX: • • •

3. From alias you can enlarge a quarter of a screen to the full size and works fully interactive
 2. Click on a square a specified half of the screen, where a box will be in the range from 0 to 3.

0 - top half
1 - bottom half
2 - left half
3 - right half

REDUCT

REPORT

SPLIT:

1) **STRUCT bmap**
2) **STRUCT num,base**

1. This command reduces the full main screen to the quarter size and stores it like a specified block (not screen based). A given screen block might be reduced alternatively to the main screen.

MEMO

SPLIT:

REPORT

MEMO reduces a coloured display to a monochrome screen.

CROSS
This command allows you to convert a screen picture from monitor to printer.

2 **STRUCTURE, WIDTH, HEIGHT, STY**
this command is used to set up a block definition, where 1 marks the interactive and 2 reserves the parameters to be given in the command line. The 3rd definition will be used as the base and default position for all subsequent accesses on the specified block.

	RANGE	RANGE width,height,0,0
BLK_OUT		
SYNTAX:	BLK_OUT block	
This command saves a part of the main screen in a specified block.		
EXAMPLE:	1 BLK_OUT block,1,7 2 BLK_OUT block,1,7	
This command gets a specified block and puts it into the main screen. If given the block is put to this position, otherwise the command works interactive.		
CLP_BLK		
SYNTAX:	CLP_BLK block	
CLP_BLK deletes a specified block from memory		
EXAMPLE:	1C CLP_BLK 6,236,170,170,64 2C RBLK 6,236,170,170,64 1C RBLK 6,236,170,170,64 1C RBLK 6,236,170,170,64 4C PBLK 6,236,170,170,64 5C BPLK 6,236,170,170,64 6C BPLK 6,236,170,170,64 7D CLP_BLK 6	
ADJUST		
SYNTAX:	ADJUST block	
If a block was defined before the last RANGE command, this command will manipulate it to fit inside the given range. First the x,y position will be corrected, then, if the block still doesn't fit, it will be truncated to the actual range size.		
EXAMPLE:	1C ADJUST block,6,236,170,170,64 2C ADJUST block,6,236,170,170,64 3C ADJUST block,6,236,170,170,64 4C ADJUST block,6,236,170,170,64 5C ADJUST block,6,236,170,170,64 6C ADJUST block,6,236,170,170,64 7D ADJUST block,6,236,170,170,64	
BSIZE		
SYNTAX:	BSIZE block	
This function returns the status of a block: 0 = erased, 1 = used		
SIZE		
SYNTAX:	SIZE block	
This function returns the size of a block as a string.		
The returned string consists of the usual parameters width,height,0,0 which are separated by commas. Any single parameter could be accessed by string slicing.		
EXAMPLE:	1C BSIZE block,6,236,170,170,64 2C SIZE block,6,236,170,170,64 3C BSIZE block,6,236,170,170,64 4C SIZE block,6,236,170,170,64 5C BSIZE block,6,236,170,170,64 6C BSIZE block,6,236,170,170,64 7D BSIZE block,6,236,170,170,64	

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COPY_BLOCK**SYNTAX:**

1. COPY_BLOCK block

2. COPY_BLOCK width,height,x,y

Use the following example (or use your own) to show your friends how to use the screen area. It's actually a real time is needed by COPY_BLOCK command to calculate the end position. COPY_BLOCK with full parameters moves a defined block into a given screen position.

EXAMPLE:

1. PSCREEN (first load a screen into bank 0)

2. SET_BLOCK 0,26,120,120,64

3. COPY_BLOCK 64,64,0,0

4. GO TO 10

CUT_BLOCK**SYNTAX:**

1. CUT_BLOCK width,height,x,y

This command is similar to COPY_BLOCK in the last example to CUT_BLOCK to see the difference.

INVERT**SYNTAX:**

1. INVERT block_width,height,x,y

INVERT inverts a block which was defined by SET_BLOCK or a specified area on the screen.

POLL

1. POLL block_width,height,x,y

The command POLL works inversely. It rolls a block which was defined by SET_BLOCK or a specified area on the screen. The difference between POLL and PAN/SCROLL is that no pixels will be lost but really be rolled around.

COPY_BLOCK

CUT_BLOCK

INVERT

POLL

ROLL_H, ROLL_V**SYNTAX:**

1. ROLL_H step,block_width,x,y

2. ROLL_V step,block_width,y,x

These commands will roll a given block or a specified area on the screen horizontally or vertically (up or down) by the defined step.

EXAMPLE:

1. SET_BLOCK 64,260,120,120,64

2. ROLL_H -10,10

3. ROLL_V 10,10

4. GO TO 20

RIPPOH**SYNTAX:**

1. RIPPOH block

2. RIPPOH width,height,x,y

This command works like reflecting. It will mirror a given block or a specified area on the screen.

MIRROR_H, MIRROR_V**SYNTAX:**

1. MIRROR_H block

2. MIRROR_H width,height,x,y

MIRROR_H (the syntax is the same for both commands) These commands will mirror a given block or a specified area on the screen horizontally or vertically (up or down).

COMPRESSOR HANDLING

These commands are used to handle the included screen compressor.

The commands are sometimes very similar to the BLOCK and SCROLL commands, but because the compressor has got its own bank, they have nothing to do with the ordinary block or screen banks. Only the size and position set by SET_BLOCK will be respected.

There are 16 different banks available for compressed screens and 16 banks for compressed blocks, numbered from 0 to 15.

Keywords:

CSPR_OUT	CSPR_IN	CSPR_CSP	CSPR_COL
CSPR_CSP	CSPR_CSP	CSPR_COL	CSPR_COL
CSPR_COL	CSPR_COL	CSPR_COL	CSPR_COL
CSPR_CSP	CSPR_CSP	CSPR_COL	CSPR_COL

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SINTAX: CSCB_OUT case
CSCB_OUT compresses the main screen and puts it in the given bank.

CSCP_IN

SINTAX: CSCP_IN case

CSCP_IN decompresses the given bank and transfers it to the main screen.

CSSAVE

SINTAX: CSSAVE 'dev-name'
CSSAVE chmb.'dev-name'
This command saves either the compressed main screen or a specific bank to a media, where the latter must be previously compressed by **CSCP_OUT**.

CSLOAD

SINTAX: CSLOAD 'dev-name'
CSLOAD chmb.'dev-name'

This command is used to load back a stored compressed screen, either to the main screen or to a given compressor bank.

CSSTAT

SINTAX: CSSTATUS[case]
This function returns the status of a compressor screen bank, where 0 means unused and 1 that the bank is in use.

CLB_CSCP

SINTAX: CLB_CSCP chmb

CLB_CSCP deletes a compressed screen from memory.

EXAMPLE: To perform first load a screen
 20 CSCP_OUT 12.'INVIL-TEST-CD'
 40 CLSLOAD 4.'INVIL-TEST-CD'
 50 CSCP_IN 4
 60 CLB_CSCP 4

CREATE, CREATPART

SYNTAX:

CREATE

CREATEPART

Alternatively to SUPER BASIC "WINDOW" you can use the commands CREATE and CREATEPART. The syntax is the same as for WINDOW, but the old area is stored in memory in compressed form. CREATE bring back the last stored area to the correct place. The old window definition is restored, too.

OTHER PROCEDURES AND FUNCTIONS

SYNTAX:

PLOT	PRINT	REPAINT	COLOUR
SET_VAR	SET_VAR	CLEAR	BY_BASE
POS	VAR	BY_BASE	
BREAK_ON	RESET		

PLOT

SET_VAR

PLOT 3,7,0,0]

POS

BREAK_ON

RESET

PRINT

VARIABLE

SET_VAR

PRINT

VARIABLE

SET_VAR

For information refer to the BLOCK HANDLING section (CPYANT, CREATPART).
The stored block is not compressed

COLOUR

SYNTAX:

COLOUR, borderwidth, bordercolor, inacolour, papercolour

COLOUR sets the colours and the border, but doesn't clear the window

SYSTEM

SYNTAX:

BREAK_ON, BREAK_OFF

SYSTEM

SYNTAX:

BREAK_ON, BREAK_OFF

SYSTEM

SYNTAX:

BREAK_ON, BREAK_OFF

These commands switch the BREAK key (CTRL-SPACE) on or off

SETCUR, IPOS and VPOS

SYNTAX:

SETCUR

IPOS

VPOS

This interactive command sets a graphic cursor and returns the absolute position in the functions XPOS and YPOS.

EXAMPLE:

10 SETCUR
20 SETCUR use cursor keys to position the graphics cursor
and press ESC key to position the graphics cursor
30 PLOT "1-Pattern" -1,100,100,100
40 GO TO 10

SET_VAR, VAR

SYNTAX:

SET_VAR

VARname

SET_VAR new_var

The command SET_VAR stores a numeric variable in user memory. Now you can SET, CLEAR or LOAD a new program and get back the previously stored variable with VARname. Only a reset or SET_VAR without parameters will clear it.

BY_BASE

SYNTAX:

BY_BASE
BY_BASE returns the current base of BASIC_VARIABLES.

CLEAR

SYNTAX:

CLEAR

This command clears the memory from its allocations and does a garbage collection.

BREAK_ON, BREAK_OFF

SYSTEM

SYSTEM

BREAK_ON, BREAK_OFF

SYSTEM

SYSTEM

BREAK_ON, BREAK_OFF

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MESSAGE

SYNOPSIS:

MESSAGE (text, "string")

MESSAGE is a function similar to INPUT. It returns the code of pressed key while the function is waiting for a keypress. the text strings will be mailed on screen at the defined rate.

EXAMPLE:

```
10 MESSAGE(11, "DIRECTOR? Enter drive number")
20 SELECT ON 11
30   40:01B next
40   40:C1B next
50   40:D1C next
60   40:E1D next
70   40:F1E next
80   40:G1F next
90   40:H1G next
100 40:I1H next
110 40:J1I next
120 40:K1J next
130 40:L1K next
140 40:M1L next
150 40:N1M next
160 40:O1N next
170 40:P1O next
180 40:Q1P next
190 40:R1Q next
200 40:S1R next
210 40:T1S next
220 40:U1T next
230 40:V1U next
240 40:W1V next
250 40:X1W next
260 40:Y1X next
270 40:Z1Y next
280 40:01A next
290 40:11B next
300 40:21C next
310 40:31D next
320 40:41E next
330 40:51F next
340 40:61G next
350 40:71H next
360 40:81I next
370 40:91J next
380 40:01K next
390 40:11L next
400 40:21M next
410 40:31N next
420 40:41O next
430 40:51P next
440 40:61Q next
450 40:71R next
460 40:81S next
470 40:91T next
480 40:01U next
490 40:11V next
500 40:21W next
510 40:31X next
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530 40:51Z next
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560 40:21C next
570 40:31D next
580 40:41E next
590 40:51F next
600 40:61G next
610 40:71H next
620 40:81I next
630 40:91J next
640 40:01K next
650 40:11L next
660 40:21M next
670 40:31N next
680 40:41O next
690 40:51P next
700 40:61Q next
710 40:71R next
720 40:81S next
730 40:91T next
740 40:01U next
750 40:11V next
760 40:21W next
770 40:31X next
780 40:41Y next
790 40:51Z next
800 40:01A next
810 40:11B next
820 40:21C next
830 40:31D next
840 40:41E next
850 40:51F next
860 40:61G next
870 40:71H next
880 40:81I next
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1070 40:11B next
1080 40:21C next
1090 40:31D next
1100 40:41E next
1110 40:51F next
1120 40:61G next
1130 40:71H next
1140 40:81I next
1150 40:91J next
1160 40:01K next
1170 40:11L next
1180 40:21M next
1190 40:31N next
1200 40:41O next
1210 40:51P next
1220 40:61Q next
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1890 40:51F next
1900 40:61G next
1910 40:71H next
1920 40:81I next
1930 40:91J next
1940 40:01K next
1950 40:11L next
1960 40:21M next
1970 40:31N next
1980 40:41O next
1990 40:51P next
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4010 40:91J next
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4130 40:11V next
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4150 40:31X next
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4170 40:51Z next
4180 40:01A next
4190 40:11B next
4200 40:21C next
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4220 40:41E next
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4240 40:61G next
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4400 40:21W next
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4420 40:41Y next
4430 40:51Z next
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4450 40:11B next
4460 40:21C next
4470 40:31D next
4480 40:41E next
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4730 40:31D next
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4750 40:51F next
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