

POINTER'S TOOLKIT

WRITER'S TOOLKIT

W_DK colour

The link for the WITH command. There is no background or paper colour; this is set by W_DK 4 sets the link to green.

W_ITM x,y,text

prints the string text in the current link by using the current font at the absolute position x,y. Null; W_ITM writes only if the current display mode is mode 4. If text is too long to fit into the screen then there will be no error message. There

W_PDN 2,W_DK 7,WITM 0,0,'Hello' prints white Hello by using font #2 at the top left corner of the screen.

W_ITM(x,y)

is a "function" which returns the width of the first character of chart. As all fonts are defined proportionally it could be very useful for some application programs to know how wide a character is.

You may load other fonts of course (fortunately writer's Toolkit fonts are compatible with Writer's). The command W_LOAD now overloads fontname, filename looks the font name filename stored on device device (e.g. fpi_Gothic) and over-rides font of current. If the given file does not exist, a .fnt will be appended instead. try will be made. If there is still no file and a DATA_USB default-directory exists, then this default will be placed before the filename and a W_LOAD fpi_Gothic,fnt,11 instead of W_LOAD fpi_Gothic,fnt,11 if DATA_USB is fpt, or W_LOAD fpi_Gothic,fnt,11 if there is no DATA_USB.

W_OFT [repeat,beep] lets you specify a pause (in 1/50 seconds) between each character printing and a beep frequency which gives a 'click' when the character is being printed. W_OFT and no parameter is the default setting: no pause and no beep. W_OFT 10,100,beep 40,40,An offset, just try it!

POINTER'S TOOLKIT WRITER'S TOOLKIT

A SOFTWARE PRODUCT FROM

JOCHEN MERZ

POINTER'S TOOLKIT

WRITER'S TOOLKIT

POINTER'S TOOLKIT & WRITER'S TOOLKIT

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You may use both toolkits together as well as separately. If you wish to load one or the other only, please have a look at the instructions of that one.

In the following several square brackets [] mean options (you must not type in this parameter), you may). Text printed italic shows examples.

Load both programs as usual after the startup or re-start-boot or by typing

LAM_MVY_KIT or **LAM_TPL_KIT**

Please have a look into both sections of this manual. There is also an example program supplied on your disk/extracircle. After having loaded both toolkits, run it by typing

LAM_MVY_DBD or **LAM_TPL_DBD**

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This program contains a coded number. It is possible to find out the initiator of illegal copies.

WRITER'S TOOLKIT

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To load Writer's Toolkit type in **LAM_MVY_KIT_WK** or **LAM_TPL_KIT_WK**

You can use Writer's Toolkit without using the Pointer Interface or SuperToolkit II of course.

Writer's Toolkit writes only to the screen if displaying mode 4 is selected. This is because in mode 8 the resolution is too low; therefore the characters are too big.

After loading Writer's Toolkit the following fonts are available:

Font #0: Antiqua12
Font #1: PCL Times 20
Font #2: Old English 20
Font #4: Old English 24
Font #6: University Roman Italic 24
Font #8: Helvetica Light 16
Font #9: Helvetica Bold 16

You can print out this list (and an extended one if you loaded other fonts) by using the new command **W_RPTN [channel]**. Writer's Toolkit writes this list to the specified channel (default is #1, as always). All defined fonts will be listed with their number, their name and the current font will be marked with a '>'. The number behind the font's name is the bit-height of the font.

W_RPTN #2 lists to channel #2.

The command **W_RPTN fontnumber** selects a font. **fontnumber** should be in the range 0 to 9 if there are no other fonts loaded.

W_RPTN 4 selects Old English. You may check it with **W_RPTN**.

Memory Management

RENAME(*name*)
 is the same function as the normal RENAME, but you never get the message 'not complete'.
 If there are any jobs running, in this case the requested number of bytes will be taken from the common heap instead of the resident procedure area. You can use this memory for the same purpose as normally as this memory will never be released (until you reset the computer, of course!).

POKE(*addr,nt\$*)
 puts the string *st\$* continuously from address *addr* upwards byte-size into the memory.
 The length of the string must not be 0.

PEEK(*addr,length*)
 is the reverse function to the command POKE, *addr* is the starting address and *length* is the number of bytes to be read from this address upwards and it is also the length of the string which will be returned from this function. Length must not be 0.
st\$=PEEK(131072,32768) reads the contents of the whole screen into a variable *st\$*.
 You can put this content back with
POKE 131072,*st\$*

There are two variables which return the position of the pointer:

IX
 returns the x-position relative to the window specified by the last READ command.
IY
 returns the y-position relative to the window specified by the last READ command.

Window-Commands

To realise pulldown-windows or the like you have to save the area behind the area occupied by the pull-down-window. After closing the pull-down-window you can restore the original background. We recommend (as there is nothing to do wrong) to open a window, say #9, which covers the whole screen:
OPEN#9,CON_512x256x0x0

You can save this before pulling down another window by using

SAVE#9

and after closing the pulldown-window

MCAD#9

The only disadvantage is: the whole window needs 32kbytes of memory, given 16 you modify just a little part of the window. You must not re-define the saved window!

WSAVE [*window*]
 saves the contents of the specified window so that you can restore it at later date. If you do not specify the window, window #1 will be used. This command works only with the pointer interface being installed.
WSAVE #2 saves window #2.

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Jobs

WLOAD [window] [window] (1) restores the specified window (default is #11) to the state you saved it last time. The memory occupied by the save area will be released if there is no #1 parameter following the window number. If there is a parameter you can re-WLOAD the window at a later date again. This executes window only with the pointer interface too.

LOCK [window] [window], i.e. other job can't lock it by laying their windows above unlock a window, i.e. other job can't lock it by laying their windows above SuperBASIC'. The window number must be the number of the first opened window, #0 normally. This feature is implemented to make it possible to write a clock which should be compiled and run as an own job. If there is another job running which covers all the clock's window totally or partially then the clock stops running. If you unlocked all windows of the clock, it will continue to run the same way as without pointer interface. Naturally this command works only with the pointer interface.

WSET type[, mode] lets the windows #0, #1 and #2 to pre-defined size. There are seven pre-defined definitions you can specify for type, numbered from 0 to 6. You may specify a display mode optionally which will be selected if entered. Otherwise you stay in the current mode. All definitions redimension the windows that there is about half of the screen free for windows of other jobs. If you use the normal monitor mode there is no way to select other job by pointing to their windows totally. If you use one of the new definitions normally as SuperBASIC covers them totally. If you use #0,4 selects display mode 4 and gives you little monitor windows.

IPCODE is a function which returns the current display mode. **HINT DISPLAY** returns 4 for mode 4 and 8 for mode 8.

CLOCK [x,y] creates a running digital clock. SuperToolkit's CLOCK does not work well with the pointer interface, you must select it with CMC C or the mouse, but SuperBASIC stops. The new clock displays a little window at the top right corner or whenever you wish. If you specify the coordinates, this clock will run even if other windows cover it. If you specify coordinates which are out of range the clock kills itself without reporting an error. Sometimes you have to press CTRL C to return to SuperBASIC but the clock will run continuously.

CLOCK 0,0 puts the clock at the top left corner.

FILER [x,y] displays the current free memory in kilobytes (1024 Bytes). A job named Free is created which opens a window at the top of the screen, left beside the clock (if there is a default one). Of course you can give the coordinates of the point. This job behaves the same way as the clock does.

FLASH creates a window at the top right of the screen.

BLANK [time] creates a job named Blank which controls the keypresses of the example. If there was no keypress within a specified time (in seconds) then the screen will be blanked until another keypress occurs. This should save your monitor if you wish. If you do not specify a time, 5 minutes are assumed.

BLANK 1560 creates a job which blanks the screen after 15 minutes without keypress.

RNDJ kills all currently running jobs except SuperBASIC. This is necessary if you wish to load resident extension for example.

SUSJO [jobs, tag, time] suspends the job specified by jobs and tag the specified time (in 1/60 seconds). This is useful if you wish to disable the BLANK-job a given time or to deactivate the net-client-server for some reason.

RESJOB 0,50 is the same as PAUSE 50 but you cannot abort the pause.

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Other

PSET [window],x,y,[wflag]
PSET [window],x,y,[wflag] sets the pointer to the position x,y. If there is no window number and no wflag then the pointer is set absolute to the screen coordinates (0,0 is the topmost left pixel of the screen). If there is a window number (default is #1) and wflag then the pointer will be set relatively to the top left corner of the specified window. PSET does not display the pointer! Works only with pointer interface!
PSET #2,30,30,1 sets the pointer to the absolute position 30,30, relativ to window #2.
PSET #2,30,30,1 sets the pointer to position 30,30, relativ to window #2.

READ [window],#ID#
READ [window],#ID# displays the pointer and waits until the event specified by READ occurs. You can move the pointer, press keys and/or mouse-buttons, even select other jobs by hitting their windows. The key-and-button-events are only effective if the pointer is in the specified window. Default window is #1. Works only with pointer interface! You can give the following events for READ:
S Return if SPACE or ENTER or a mouse-button is pressed. (Read the result with READ!).
P Return if any key is pressed. (Read with READ!).
U Return if no key is pressed (e.g. move with held button into a window and release it).
M Return if pointer moves out of window (immediate return if pointer already out of window).
O Return if pointer moves into window (immediate return if pointer already in window).
I Return if pointer moves into window #2.
READ 'I' finish when pointer is in window #2.
READ #2,'P' finish when a key is pressed while the pointer is in window #2.

During the work with Pointer's Interface it was noticed that READ while reading other windows than #1 did not work properly. If you re-open channel 1 at the start of your program everything works fine. Perhaps this is due to the the version of the pointer interface. If you have any problems with READ try us your first program line:
I OFN #1,0#

NETNO [channel]
NETNO [channel] lists all extra-commands and functions the same way SuperToolkit™ EXTRA does, but uses the whole screen. You may pause the output by pressing CTRL F6 and interrupt the listing by pressing BREAK. Default channel is #1.

NETNO function which returns the net-number of the com station. This may be useful if you use the net-file-server.

EXT([window],Text)
EXT([window],Text) is a function. The string "Text" will be displayed in the specified window (default #1) and could be edited the usual way. ENTER, Cursor up or Cursor down, flush the input. The edited string will be returned.
#\$=ED#(#2,"Right") writes Right into window #2. Now you may edit Right. Delete twice Left and enter on, then press ENTER. #\$ contains now None.

MATH Mathematical functions which are neither defined in SuperBASIC nor in SuperToolkit II:

SIGN(x)
SIGN(x) returns the sign of x: -1 if x is negative, 0 if x is 0, 1 if x is positive.

FRACT(x)
FRACT(x) returns the unsigned value behind the decimal point of x.

PKT EXT re-defines all commands of Pointer's Toolkit. Commands like RESIZE which exist in SuperToolkit II also, could be re-defined to Pointer's Toolkit version if you defined those to SuperToolkit's version by using TIC_DEF.

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KRMD device filenames,old\$,new
creates a job named **backbone** which replaces in the file **device_filenames** each old to new, old\$ and new\$ must have the same length (but not 0). Upper and lower case letter will not be distinguished. This command also uses the default-directory of DATA_ISZ, if it exists. You must never remove the job, it should kill itself.

KRDW devl ROOT,TIP,'mvl' swaps each tip to mvl in the file **ROOT** on device **mvl** (TIP or TIP etc. will also be swapped). If you run SuperToolkit II or a floppy disk controller which has **DATA_USER**, and **DATA_USER** is currently **mvl**, you could enter instead:

KRDW ROOT,TIP,'mvl'

To load Pointer's Toolkit type in **LADN TIPL_BOT_FTR**

When loaded you get a message about the state of the pointer interface. When there is no pointer interface (or not initialised till now) you can read:

If you used the command **POINTER** (if you own a Surey Superboard with mouse) or loaded PTR.MDI or PTR.DMI, you get
Pointer interface Vi.06 (perhaps with a different version number).

If there is also a window manager (necessary to use QM) then it is also displayed:
Window Manager Vi.05

Pointer's Toolkit is ready now.

Pointer-Commands

PINFO [window]
shows information about the current pointer interface and window manager (if there is any) to the selected window. If there is no window number specified, Channel #1 will be used. The messages are the same as the load-messages, subject to the current state.