
VRCP WINDOWS 1.0 is the graphical user interface (addition, pseudo-OS)
for TR-DOS version on any PC ZX Spectrum 48k, 128k, and others. memory capacity!

Main tasks - convenient display for the user in the form of files
graphic icons, not just the text, as well as fast execution
built-in TR-DOS and its own internal and external teams,
and some other small features.
There are two ways to start - loading from the disk or the ROM / ROM.

There are two assembly options:
Lite - lightweight version for 48k, with a simplified control shell;
Full - Full for 128k, with additional controls and features.

With the drive running through the address:
3D13 (15635), # 3D03 (15619), # 3D00 (15616)
Just use some procedures SOS BASIC-48k.

Key files:

VRCPWINS - loader with VRCP Windows code (Lite-version);
vrcpwins <C> - code VRCP Windows (Lite-version without installation);
VRCPWS - Loader (for Lite), glued to the file vrcpwins <C>
 (Vrcpwins <C> can be packed with anything but
 This must have autorun at 32768!
 (File VRCPWS at offset 078 must be
 value of the number of sectors that occupies
 file is pasted to it!);

WinSetUp - loader VRCP Windows (Full-version);
WinSetUp <0> - code VRCP Windows (for Full-version);
WinSetUp <0> - 0 dump memory bank (for Full-version);
WinSetUp <1> - dump memory bank 1 (for Full-version);
WinSetUp <2> - dump memory bank 2 (for Full-version);
WinSetUp <3> - dump memory bank 3 (for Full-version);
WinSetUp <4> - dump of the memory bank 4 (for Full-version);
WinSetUp <5> - dump memory bank 5 (for Full-version);
WinSetUp <6> - dump memory 6 of the bank (for Full-version);
WinSetUp <7> - 7 dump memory bank (for Full-version);

???????? <0> - External batch files;
???????? <> - Icons for -files;
vrcpwins <W> - Brief description VRCP Windows;
file_id <> - information file;

CACHER2 - The installer VRCP Windows in ProfROM;

vrcpwins <r> - Firmware VRCP Windows instead EOS BASIC-128k;
vrcpwr30 <C> - Firmwares VRCP Windows instead:
vrcpwr31 <C> - MENU (additional bank ROM PROFI.) and EOS BASIC-128k.

VRCPWIN1 <H> - The source VRCP Windows (ALASM, part 1)
VRCPWIN2 <H> - The source VRCP Windows (ALASM, part 2)

Description of the main shell keys:

- Right Arrow: P, 8, CS + 8
- Left Arrow: O, 5, CS + 5
- Up Arrow: Q, 7, CS + 7
- Down arrow: A, 6, CS + 6
- Cursor right: CS + L
- Cursor left: CS + K
- Cursor up: CS + W
- Cursor down: CS + S
- Cursor speed: ENTER, CS + ENTER
- Select File / Team: B, N, M, 0,1, SS, SPACE, EDIT, DELETE, EXTEND, BREAK
- A line-up of files: W
- File line down: S
- Page files forward: L
- Page file back: K
- Type of icon / text files: Y
- Drive choice: D
- Re-read the directory: C
- Run the file: R
- Start a file as MAGIC: X
- File preview: V
- Information about a file / disk: I
- Create a file: F
- Deleting a file: G
- Execute the command: J
- Extended commands: E
- On / Off background. Image: T
- View the background. Pictures: 9
- Change the background image: 1
- The launch of the screensaver: CS + 2, CAPS LOCK
- Out of the graph. shell: CS + U
- Work with interrupts: CS + Z, 3,4

Control Panel:

- At the top of the panel 4, arrows indicate control by page and line by line a list of files;

- Below is the level of the speed of the cursor;
 - This is followed by an arrow indicating the exit from VRCP Windows back from where you start it;
 - The following 2nd arrow - is the choice of an internal team that Located below;
 - After the teams should be a window that displays system messages;
 - Finally, at the bottom are buttons to access the different media OS: BASIC-48k, TR-DOS, BASIC-128k, HALT.
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Description of the main built-in functions (control panel)

- A- - Selecting the drive "A";
 - B- - Selecting the drive "B";
 - C- - Selecting the "C" drive;
 - D- - Selecting the "D" drive;
 - CAT - Display disk directory with a choice of 2 modes (Icon / Text);
 - RUN - Running programs with the extension "B" and "C";
 - MAGIC - Running programs with the extension "C" as the <MAGIC> -file;
 - COMM - Executing an external command, the file extension "(C)";
 - NEW - Create a new file with the "#" in length 4K;
 - DELET - Deleting a file (only the label in the boot-sector);
 - DINFO - Information about the current disc;
 - FDATA - Information about the selected file;
 - TVIEW - View the file as a text (up to 65,280);
 - SWIEV - View the file as a Sprite (up to 6144);
 - PVIEW - View the file as a Screen (up to 6912);
 - ... - Advanced (external) function.
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List of the main visual messages (in the Control Panel)

- 0 - Ok (Action Completed)
 - 1 - Error (Error)
 - 2 - Attention (Caution)
 - 3 - Warning (Prohibition)
 - 4 - Panel (Panel VRCP Windows)
 - 5 - Files (File Panel)
 - 6 - Stop (Stop)
 - 7 - Start (Launch)
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System specifications: (a page of memory address, length)

- 0 - (49,152) - Commands <16384/09472 - to 128 / 48k!>
- 1 - (49,152) - (?) None <16384>
- 2 - (32,768) - VRCP Windows <16384>
- 3 - (49,152) - (?) None <16384>
- 4 - (49152) - System Resources <09472>

(58624) - Screen Save! <06912>
5 - (16,384) - Screen + SP <+ 06 912 9472>
6 - (49,152) - (?) None <16384>
7 - (49,152) - (?) None <16384>

ATTENTION!!! It is unacceptable in 48k executing commands over a length
9472 bytes, as in this case, performed at 58624
save the current screen VRCP Windows!

Addresses management (for external commands and other programs):

48896 - Internal STACK (256 bytes);
32768 (33025) - Running VRCP Windows;
 (At the address 32768 256 bytes for the installation);
33071 - Number of the selected file;
33070 - The speed of the cursor;
33068 - Info / Catalog (# FF / # 00);
33067 - Number of the selected drive;
33066 - No disc / In Text's / In Icon's;
 (# 00 / # AA / # FF)
33044 - A pointer to a routine control keys;
 (2 bytes) <S, U, D, R, L>
33035 - Provision for internal variables (8 bytes);
33030 - 3 bytes for the expansion of internal teams;
 (A CALL ...)
28670 - Storage disk directory (4096 + 2 bytes);
24320 - Clearance (4300 bytes);
23734 - System variables TR-DOS;
23296 - System variables BASIC-48k;
16384 - Screen (CGA);
00000 - ROM (ROM).

Routines VRCP Windows: (do not change the contents of the registers!)

40560 - Print Icon (B = number, C = coord)
40440 - Print Symbol 4x8 (B = y, C = x, A = symbol)
40395 - Print Text 4x8 (DE = addr_mem, B = y, C = x)
40280 - Print Panel
40170 - CLS (A = attr)
40045 - CLS without Panel (A = attr)
39945 - Clear 1 Icon + Text (A = attr, C = coord)
39865 - Print Message (A = number)
39815 - Clear Message
39500 - Load Catalog Disk (HL = addr_mem)
39460 - Screen Save to Mem.
39420 - Screen Load from Mem.
39345 - Print Attrs for File (A = number, HL = addr_mem)

39305 - Print Text 8x8 (DE = addr_mem)

Addresses internal data (resources) VRCP Windows:

48776 - Attrs for Panel (5x24)
47816 - Sprite of Panel (5x192)
47424 - Attrs of Icons (98x2x2)
44,288 - Sprites of Icons (98x2x16)
42240 - Font ZX-WORD (256x4x8)
41472 - Font CHARS (96x8x8)
41152 - Cursor Sprites (2x8x16x10)
40768 - Tabl Y-coords Screen (192x2)
39525 - Sprites of Messages (8x2x16)
39220 - ScreenSaver Sprites (10x1x8)
33025 - Code VRCP Windows (15872)

Note:

- In order for the file type displayed its own icon, you must create color 16x16 pixels icon file with the <>, the same name and put a number on the disc;
 - To create an external command, you can use the file:
WIN_OSC <H> (source caps on ALASM)
 - To create an internal team can use the file:
WIN_EISC <H> (source caps on ALASM)
 - To create an overlay (like a screensaver) you can use the files:
WINOVL <H> and PRGOVL <H> (source code examples on ALASM)
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