*Ultrasoft*Toolbox II

for the Sinclair QL

QLone+ is an extension to the QL-Superbasic, which enables you to make backup-copies of allmost every program by the use of simple Basic commands.

The following new keywords are available:

CAT - prints a detailed catalogue of a medium DEV USE - sets up two devices for copying - sets devices to Microdrive 1 and 2 USE M - sets devices to Floppy 1 and 2 USE F CLONE - copies a list of files CLONE ALL - copies all files on a medium CHANGE - patches a string in a file CFORM - copies the format of a MD-cartridge CLEAN - does a limited garbage collection INFO - displays system values SET BUFFER - sets a minimum save/load buffer for QDOS KEYS ON switches function-keys on KEYS OFF - switches function-keys off ACL ON - switch auto-clean on

1. Syntax of the commands

ACL_OFF

1.1 CAT (#chn.)dnr

(chn = channel for printing, dnr = device number, Default: chn = 1)

This command works similar to the DIR command, but gives the user more information about the files. $\,$

CAT uses the devices which were defined by the DEV_USE command. The number, which is displayed in front of every filename is the filenumber used for CLONE and CHANGE.

EXECutable files are marked by an asterix (not on M/Drive).

- switch auto-clean off

Example: CAT#2.1 displays a detailed catalogue of the device 1 in screenwindow 2. If you haven't defined the devices by DEV_USE this would be MDV1_.

1.2 DEV_USE 'dev1'(,'dev2')
(dev1 = dev1ce 1, dev2 = dev1ce 2, max. 4 characters each,
 Default settings: dev1 = 'MDV1', dev2 = 'MDV2')

This command defines the devices for copying (CLONE, CLONE_ALL) and the CAT and CHANGE commands. Each name must have 3 characters and a number, e.g. 'FLP1'. If you define only 1 name or if both names are equal, singe-drive copy is assumed. You will then be promted, if a change of the medium is required.

Example: DEV_USE'flp1','mdv1' will setup FLP1 as device 1 and MDV1 as device 2, so that 'CAT 1' would result in a directory of FLP1.

1.3 USE M

Shortform for DEV_USE'mdv1','mdv2'. This is the initial setting.

1.4 USE F

Shortform for DEV USE'flp1', 'flp2'.

1.5 CLONE TO dvn; fnr(,fnr,...)
 (dvn = device number, fnr = file number, max. 10 files)

CLONE is to be used for copying a single file or a list of files. The filenumbers are those, which are displayed by CAT, so that there is no need to type in the filenames. The devicenumber is the number of the destination device.

Example: You want to copy some files from MDV2 to FLP1. Let us assume, that these are the files 1,3,4,8 and you have already set MDV2 as device 1 and FLP1 as device 2. Now there are two possible ways to do this:

FOR n=1,3,4,8:CLONE TO 2:n

and

CLONE TO 2:1.3.4.8

Both of these will work perfectly, but the second would be much faster, because your QL will store as much files as possible in memory before saving, if you use the file-list facility.

1.6 CLONE_ALL TO dvn (dvn = device number)

This command works in the same manner as CLONE with a file-list, but copies all files of a device to another. CLONE_ALL is very fast, because it stores as much files as possible in memory before saving.

Example: To copy all files from MDV1 to FLP1 you only have to type CLONE_ALL TO 1, assumed that FLP1 is device 1 and MDV1 is device 2.

1.7 CHANGE dvn,fnr,old\$,new\$ (dvn = device number, fnr = file number, strings to change must have same length, max. 10 characters each) This command allows you to patch a string in a file, e.g. the devicename in a BOOT-file after copying it to disk. The strings are searched case independent, that means 'mdv' and 'MdV' are equal while searching the file for it, but the old string will exactly be replaced by the new string you have defined.

Examples:

CHANGE 2,4,'mdv','flp' would change all 'mdv' to 'flp' in file 4 on device 2.

FOR n=1 to 9:CHANGE 1,n,'mdv1','mdv2' swaps 'mdv1' to 'mdv2' in all files on device 1, assumed that there are 9 files on it.

1.8 CFORM TO mnr

(mnr = Microdrive number, 1 and 2 only)

With this command you are able to copy the format of secured MD-Cartridges. These are the programs which need the original cartridge as a key to start the program. After copying the format the backup will be accepted as the original, too.

The mnr ist the number of the destination drive, but be careful:

The cartridge will be formatted !

But don't get nervous when the source drive is running first, because QLone+ has to read the original format first.

Example: CFORM TO 2:CLONE_ALL TO 2 will copy a whole cartridge from MDV1 to MDV2 including the format, assumed that MDV1 is device 1 and MDV2 is device 2 (default settings).

It's not gentlemen-like to use this facility for piracy !

1 9 CLEAN

This command does a limited garbage collection and deletes all unused items in the common heap. When making several CFORMs after another, CLEAN should be used between them, otherwise QDOS might get a little bit confused. CLONE and CLONE ALL perform a CLEAN automatically.

1.10 INFO (#chn)

All QLone parameters and the amount of free memory are displayed when using this command.

1.11 SET_BUFFER KBytes (Default: 16 KB)

This command defines a minimum amount of buffer for the Qdos Filing-System. Normally there's no need to change the default setting, but when copying very large files on a unexpanded QL it might happen, that there is not enough memory to store the file. In this case you have to use the COPY command or decrease this buffer size. But be warned: If it's too small, saving becomes very slow.

Example: SET_BUFFER 4 sets the buffer size to 4 KBvtes.

1.12 KEYS ON, KEYS OFF (Default: ON)

These commands switch the QLone+ function-keys ON or OFF. They are installed \uparrow 3 make QLone+ easier to use, but should be switched off when using other programs, e.g. QUILL. The following keys are used:

Key	Function
F1	CAT
F2	DEV USE
F3	CLONE TO
F4	CLONE ALL TO
F5	CHANGE
SHIFT-ENTER	repeats last command line

1.13 ACL_ON, ACL_OFF (Default: ON)

These commands are used to switch the automatic CLEAN after CLONE and CLONE_ALL on or off.
It should be switched off when used in conjunction with UltraDisk.

2. Error messages and warnings

2.1 fnr: Not enough memory - please use COPY
 (fnr = file number)

The file to be copied does not fit into memory. Copying continues with the next file, if there is one.

2.2 fnr: File does not exist
 (fnr = file number)

Occures if there's a file in the file-list for CLONE that doesn't exist. Copying continues.

2.3 Warning: File to big for medium

The last file copied might be corrupted, because it doesn't fit on the destination medium. (You'll better delete it.)

2.4 Warning: File already exists

The file to be copied already exists on the destination medium. Copying continues with the next file.

2.5 Strings not of same length

The two strings for CHANGE must be of the same length.

2.6 Strings too long

Maximum stringlength for CHANGE is 10 characters.

2.7 Too many files

A maximum of 10 files can be copied with CLONE.

2.8 SYNTAX: ...

If you use a QLone+ command in a wrong manner, then this message will display the correct syntax for the command.

3. Transferring QLone+ to disk

The following short program will transfer OLone+ onto a disk:

10 DEV_USE'flp1','mdv1' 20 CLONE_ALL TO 1

30 CHANGE 1,1,'mdv','flp'

QLone+ can now be booted from the disk.

WARNING: Never CHANGE the main program of QLone+ !!!

4. Compatibility

QLone+ runs on the following QL-Versions: AH, JM, JS, MG and JSU.

-Because it was much work in many sleepless nights to write QLone+, it would be very marvellous from you, if you would not give away this program to friends or other people.

Thanks a lot.

signed: Martin Berndt

1. The Standard RAM-Disk

1.1 Loading

To load the RAM-Disk driver the following command line has to be typed in:

LRUN mdv1 ramdisk (ENTER)

The driver is installed when the Ultrasoft logo appears.

1.2 Formatting

The RAM-Disk is created by formatting it. The size in sectors must be given place of the usual medium name. If no size is given the RAM-Disk will be deleted.

Example:

FORMAT ram1 200 or FORMAT ram2 50 etc.

1.3 Accessing the RAM-Disk

All filing system commands will work with the RAM-Disk, provided the filename starts with RAM instead of MDV or FLP.

Examples:

DIR ram1 SAVE ram1 test

prints a directory of RAM1 saves file 'test' to RAM1 COPY ram1 e, mov1 e copies a file named 'e' to MDV1

1.4 Emulation

The Standard RAM-Disk also includes a command to change the name of the RAM device.

RAM USE 'mdv'

sets the name of the RAM device to 'MDV', so that all subsequent calls for microdrives will access the RAM-Disk instead.

1.5 Compatibility

The Standard RAM-Disk is compatible with all QDOS commands and extensions.

All the QLone+ commands will work correctly with the RAM-Disk, too.

DEV USE'ram1', 'mdv1': CLONE ALL TO 1 would copy all Example:

files from MDV1 to RAM1, provided that a RAM-Disk has been created by FORMAT.

2. The High-Speed RAM-Disk

2.1 Loading

Type the following command line to load the High-Speed RAM-Disk (HSR):

LRUN mdv1 ultradisk

The driver is initialized when the logo appears.

2.2 Formatting

In normal use the HSR needn't be formatted at all, because it is fully dynamic. But for some programs (e.g. QUILL) it is neccesary to format, because otherwise the program might grab all the RAM available. Different to all other RAM-Disks, files in the HSR will not be erased when formatting. Just the size of the RAM-Disk is changed. To erase a RAM-Disk completely you have to format it without giving the number of sectors, e.g.:

FORMAT udk1

2.3 Accessing the HSR

Please refer to 1.3, but use 'udk' instead of 'ram'.

2.4 Emulation

Please refer to 1.4, but use UDK_USE instead of RAM_USE.

2.5 Compatibility

The HSR may co-reside and interact with the Standard Ramdisk concurrently in memory.

Because of the dynamic layout the HSR might be incompatible to some programs, including QLone+.

Caution:

CLEAN will destroy all files in the HSR !

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ULTRASOFT DISK MONITOR

EXEC_W DISKMON (Ctl/c job control)

The disk monitor is a menu driven monitor.

Main Menu:

F1 a directory - enter drive number. Esc to return.

F2 file editing - enter drive number and exact file name, i.e 1 (enter) filename_doc. Handling menu

appears.

F3 sector track editing - enter drive number, track number, sector number. Handling menu appears.

F4 refresh.

F5 exit to Superbasic.

Handling Menu:

F1 next half sector.

F2 write the edited sector.

F3 the next sector.

F4 the previous sector.

TAB toggle between HEX and ASCII representation.

F5 guit editing proceedure.

Diskmonitor $% \left(1\right) =\left(1\right) +\left(1\right)$

SIMPLE AND SAFE TO USE - JUST ENTER THE HEX OR ASCII CODE ON SCREEN BEFORE WRITING THE SECTOR.

ULTRASOFT CLOCKS

LRUN CLOCK4 LRUN CLOCK8

After loading a clock just depress Shift/Alt for a real multitasking clock that does not run as a job. This allows the further use of respr. Ideal when working with the Psion package. It does not disturb the background and you when you are working.

Use clock4 for mode 4 and clock8 for both modes(4 & 8). Do not forget to set the ql clock when booting for the first time with SDATE.

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