

*Ultrasoft*  
Toolbox II

for the Sinclair QL

--- QLone • Version 2.30 (c) 1988 by ULTRASOFT ---

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

The following new keywords are available:

CAT	- prints a detailed catalogue of a medium
DEV_DSS	- sets up the devices for copying
USE_H	- sets devices to Microdrive 1 and 2
USE_F	- sets devices to Floppy 1 and 2
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 HD-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
ACL_OFF	- switch auto-clean off

## I. Syntax of the commands

### 1.1 CAT (chn, dnr

(chn = channel) for printing. dnr = device number. Default: chn = 11

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 asterisk (not on HD/Drive).

Example: CAT02.1 displays a detailed catalogue of the device 1 in screenwindow 3. If you haven't defined the devices by DEV\_USE this would be MDV1.

```
1 2 DEV_USE 'dev1','dev2'
  (dev1 = device 1, dev2 = device 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, single-drive
copy is assumed. You will then be prompted, 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\_R

Shortform for DEV\_USE'mdv1','mdv2'. This is the initial setting

### 1 4 USE\_P

Shortform for DEV\_USE'flp1','flp2'

### 1 5 CLONE TO dvn;fnr1,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 filenames are those, which are displayed by FAT, 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 1,1,1,0 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=1,3,4,0 CLONE TO 2;n
and
CLONE TO 2;1,3,4,0
```

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 'adv' and 'Adv' are equal while searching the file for it, but the old string will exactly be replaced by the new string you have defined.

Example:

CHANGE 2,4,'adv','flip' would change all 'adv' to 'flip' in file 4 on device 2  
POW n=1 to 9:CHANGE 1,n,'adv1','adv2' swaps 'adv1' to 'adv2' in all files on device 1, assumed that there are 9 files on it

### 1.8 CFORM TO MDV

(mdv = 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 mdv 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 1 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 CLEAR

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

### 1.10 INFO (Echo)

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 DL 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 KBytes.

### 1.12 SETS\_ON, SETS\_OFF (Default: OFF)

These commands switch the QLone+ function-keys ON or OFF. They are installed to 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	DFV_USE
F3	CLOSE TO
F4	CLOSE ALL TO
F5	CHANGE
SHIFT-ENTER	repeat last command line

### 1.13 ACL\_ON, ACL\_OFF (Default: OFF)

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

## 2. Error messages and warnings

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

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

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

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

2.3 Warning: File too 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.

## 2. Transferring QLone+ to disk

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

```
10 DEV_USE'flop1','mdv1'  
20 CLONE ALL TO 1  
30 CHANGE 1.1,'mdv1','flop'
```

QLone+ can now be booted from the disk.

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

## 3. Compatibility

QLone+ runs on the following OL Versions: AH, JR, JS, RG and JSU.

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\*Because it was such work in many sleepless nights to write QLone+. It would be very marvelous from you if you would not give away this program to friends or other people.

Thanks a lot.

Signed: Martin Berndt

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RAM-Disk Utilities --- (c) 1986 by Ultronsoft  
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## 1. The Standard RAM-Disk

### 1.1 Loading

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

LDOW mdv1\_ramdisk (ENTER)

The driver is installed when the Ultronsoft logo appears.

### 1.2 Formatting

The RAM-Disk is created by formatting it. The size in sectors must be given plus 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 HDV or FLP

Examples: DIR ram1\_ prints a directory of RAM  
SAVE ram1\_test saves file 'test' to RAM  
COPY ram1\_a.mdv1\_a copies a file named 'a' to HDV

### 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 QLaser+ commands will work correctly with the RAM-Disk, too

Example: DEV\_USE('ram1','mdv1')..CLOSE\_ALL TO 3 would copy all files from HDV1 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 (MSD):

```
LDUS msd1_ultradist
```

The driver is initialized when the logo appears

### 2.2 Formatting

In normal use the MSD needn't be formatted at all, because it is fully dynamic. But for some programs (e.g. QJILL) it is necessary to format, because otherwise the program might grab all the RAM available.

Different to all other RAM-Disks, files in the MSD 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 msd1_
```

### 2.3 Accessing the MSD

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

### 2.4 Emulation

Please refer to 1.4, but use UDR\_UDE instead of RAM\_USE.

### 2.5 Compatibility

The MSD may co-exist and interact with the Standard RamDisk concurrently in memory.

Because of the dynamic layout the MSD might be incompatible to some programs, including QLone!

**Caution:**

**CLEAR** will destroy all files in the MSD !

## **ULTRASOFT DISK MONITOR**

**EDEC\_9 DISKMON**  
**EDEC\_0 DISKMON (Ct1/c job centre)**

The disk monitor is a menu driven monitor.

### **MAIN MENU:**

- F1** directory - enter drive number. Esc to return.
- F2** file editing - enter drive number and exact file name, i.e. 1 (enter) filename\_dat. Handling mode appears.
- F3** sector track editing - enter drive number, track number,sector number. Handling mode appears
- F4** refresh.
- F5** exit to SuperBasic

### **Handling Modes:**

- 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** quit editing procedure.

Diskmonitor also edits the sector headers for all known disk systems except MFM.

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

## **ULTRASOFT CLOCKS**

**L8085 CLOCK4**  
**L8085 CLOCK8**

After loading a clock test depress Shift/Alt for a real multitasking clock that does not run as a job. This allows the further use of rexit. Ideal when working with the Pison 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 cl alarm when booting for the first time with SPATE.

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