

Copyright of the code of *QWriter II* and this manual by Jurhen Herz, 1987.

Thank you for buying *QWriter II*. This is not only an update of *QWriter*, the whole code has been re-written to include many features, although it is compatible with old versions of *QWriter*.

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

In the following manual square brackets [] show optional parameters, text printed italic are examples. In examples only *mdv* will be used; if you bought *QWriter II* on floppy disc, use *flp* instead of *mdv*.

Load *QWriter II* by booting your QL as usual after a reset or power-on or type
LRLN mdv_BOOT
QWriter II will load itself and then try to find a setup-data-file on *mdv_* called *mdv_QWRITER_1st*

When buying *QWriter II* you get many fonts. *QWriter II* may contain up to 64 fonts, numbered from 0 to 63. Font #0 is always pre-defined; it is Antiqua 12. To create your own version with the fonts you need (if you do not have a memory expansion it would be a waste of memory to load in all fonts) you may create a setup-data-file (if there is already a setup-data-file on *mdv_* you must delete it first):

```
OPEN_NEW #3,mdv_QWRITER_1st
Now you can print the filenames of all fonts you wish to load, e.g.
PRINT #3;'mdv_OLDRNGLISH_fnt'
PRINT #3;'mdv_NKRN_fnt'
PRINT #3;'mdv_GROTESQUE_fnt'
CLOSE #3
```

This setup-data-file would instruct *QWriter II* when booting to load OLDENGLISH as font #1, NHON to be #2 and GROTESQUE to be #3.

You can find out which fonts you may use by doing a *DIR mdvl_*. All filenames ending with *_fnt* are possible.

You may load fonts which were not loaded during the boot by using the new command

NLQ_LOAD device_filename,fontno

This command will try to load the file specified by *device_filename* (e.g. *mdvl_OLDENGLISH_fnt*) and assigns it to be font *#fontno*. If there is no file called *filename* on *device* then *_fnt* will be appended to the filename and another try to load it will be made. If it fails again and there is a *DATA_USE* default directory, then this will be placed before the filename and a final try will be made. All fonts loaded this way will get lost if you remove the *NLQ-Server* job.

NLQ_LOAD mdvl_OLDENGLISH_fnt,4 loads OLDENGLISH from *mdvl_* to be font #4

NLQ_LOAD mdvl_OLDENGLISH,4 does the same and

NLQ_LOAD OLDENGLISH,4 does the same also if *DATA_USE* is *mdvl_*.

You can get a list of the currently installed fonts by typing

NLQ_FONTS [#channel]

This lists the font number, the font name and the font height in pixels to the specified channel. If there is no channel number output goes to window #1. The font currently selected (if there is any) will be marked with a > character.

QWriter II is ready to use now. First you have to tell *QWriter II* where to send its graphic data to the printer. This could be done with the command

NLQ_USE [device]

where *device* is the device to which the printer is connected (e.g. *ser* or *par*).

If you do not specify a device then the current device (if there is any) will be closed from *NLQ_USE* and may be used otherwise. The same occurs if there is a device specified and there was a *NLQ_USE* with parameter before. This command also ensures that there is a *NLQ-Server* job running. If not, it will be created. Without this job no output will occur. Do not remove this job while there is a channel open to *NLQ* or the job is currently printing.

If you have to kill the job you can re-create it at a later date by typing

NLQ_SERVE

You are now able to open the *NLQ-device* the same way you do to any other device, its device name is

NLQ_bitsfont

where *bits* means the number of bits per printer line. Default is 960. At the moment there are four densities allowed: 480, 640, 720 and 960 pixels/line. EPSON FX and FX-compatible printers allow all densities; MX compatible just 480 and 960. *font* selects the font number; default is font #0 - Antiqua 12.

You can open a channel to NLQ, for example

```
OPEN #3,NLQ#4
```

opens channel #3 to be NLQ, uses default density 960 and selects font 4 (if font #4 has been loaded!).

Now you can send anything to the open channel you wish, e.g.

```
PRINT #3;"Hello!" prints Hello!
```

```
BPUT #3,65,66,67,10 prints ABC
```

```
LIST #3 prints the SuperBASIC listing currently held in memory
```

Control-codes

- | | |
|---------|---|
| 1 | disables <i>QWRITER II</i> fonts and sends anything printed to NLQ directly to the printer without modifying it. You can leave this mode by sending CHR\$(255). |
| 2 n | Select font. Must be followed by the font number n. |
| 3 | Enables double-strike. Each line is printed twice with a linefeed of 1/218" before the second printing. |
| 4 | Disables double-strike |
| 9 n1 n2 | Tabulate to right. The new position will be $n1*256+n2$; if the current print position is higher the Tabulate will be ignored. |
| 10 | Line feed. Prints the current line (if there are characters in the line buffer) and moves the paper to the next line. |
| 12 | Form Feed. Moves the paper to the beginning of the next page. |
| 13 n | Select multiple width by factor n. |
| 14 | Select double width. |
| 15 | Select normal width. |
| 16 n | Select space out by n bits. |
| 17 | Select normal space out. |
| 18 | Deselect space out. |
| 19 | Select unproportional printing. |
| 20 | Deselect unproportional printing. |
| 24 | Cancel current line. |

The remaining printable characters will be printed if they are defined in the current font. If not a short beep is made for every character which is not defined.

Examples to the control-codes:

- 1 To print normal text to the printer when using a NLQ device you first have to disable the server to modify the data by sending this control code:

```
PRINT#3;CHR$(1); or
```

```
BPUT#3,1 (if you own SuperToolkit II for example).
```

Now you can print anything you wish to the printer the same way you do without *QWRITER II*. You can leave this mode by sending control code 255.

- 2 To select another font, use control-code 2, followed by the font-number, for example, OLD ENGLISH is font #4), you may use
`PRINT#3;CHR$(2);CHR$(4);` to select it or
`PRINT#3,2,4`
- 3 To make the printout darker you can select this control code. Every line is printed twice, there is a linefeed of 1/218" after the first print.
- 9 To tabulate to a specific position, say 400, use
`PRINT#3,9,1,144` (you should know now how to PRINT)
- 19 As all pre-defined fonts are proportional defined it is very difficult to create tabulated tables. If you select unproportional printing every character is spaced the width of the widest character in the font. If you select another font the unproportional printing is cancelled.

If you wish to list a BASIC-Program using the OLDENGLISH to a printer connected to ser1; you must load *QWalter II* first, then load the OLDENGLISH font:

`NLQ_LOAD #dvi_OLDENGLISH,4` to load

`NLQ_USR ser` to direct output to ser1.

Then, if the program is stored on a device; type in

`COPY #dvi_somoprogram TO nlqf4`

If the program is currently in the memory, use the following:

`OPEN#3,nlqf4:LIST#3:CLOSE#3`

QWalter II and Quill

To use *QWalter II* with *Quill* you have to install a new printer driver: LRUN install_bas of *Quill* and select parallel port (even if you print to ser). Set `NLQ` to be the port name and install the *QWalter II* control codes for bold etc. and translations as you wish. To make it possible to select any font from *Quill*, translate a character you do not use to code 2. You can place this character into a *Quill* text followed by a letter to select a font (A means font 1, B font 2 etc.). Before starting *Quill* you must load *QWalter II* and type in
`NLQ_USR ser` (or par or whatever you need).

If the *QWalter II* cartridge contains a file called `updates_doc`, please have a look at it first.

After loading *QWalter II* you may run the demo program called `#dvi_DRMO`.