#### ASCOPY MANAGEMENT

#### The Screen Copier

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TASCOPY QE has seen rested with the following printers:

Admate DP-80
BMC BNS0
Brother FRS, MJ(xx)
Canon FW-1080A
Casmos CP-80
Epson FN-80, RX-80, MX-90
Mannesman Tally MT-80
NEC PC-8023B
Seikosha GP-550A
Seikosha GP-80, JP-80A
Sear DP 510, 515
Sear Germin 10X
Tarung TP-80.
Tarung TP-80.

TASCOPY QL will conve easy 8 pers dos matrix printer capable of bit image printing.

4.4

THE RESERVE AND ADDRESS OF THE PARTY OF THE

## The Screen Copies

A
Tasman Software Program
for the
Sinclair QL

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#### INTRODUCTION

The TASCOPY (4. package contains programs to produce grey scale, manuchron and poster size screen copies.

The gray scale screen copies produce the effect of colour by profing each screen pullidot) as a pattern of dots on the printer. Different colours on the screen have different densities when printed with the darker colours having greater and densities. There are two programs to produce gray scale screen copies, one for the TV screen only have a the Monitor although it must be noted that either may be even with either if TV in monitor.

The QL screen is composed of they dots called pixels. There are the astronomic in called mode? In mode 8, there are 256 pixels across and 256 of two series are 312 pixels across and 256 pixels down. The last one produce screen copies of any area of the screen (called a words with

The TV version will only print up to \$XI) stream pixels actions in \$\frac{1}{2} = \frac{1}{2} \times \frac{1}{2} = \frac{1}{2} \time

The monitor mode version will print out any size in this point on the major is a 512×256 in mode it or 256×256 in mode it.

The monochrome program produces a fast morroofs are street, up, which colours will be represented by a during the popular and which represented by no dot.

The poster size screen copies are very large versions of the great state screen copies are very large versions of the great state screen copies are very large versions of the window size and poster will be printed on 1, 2 or 4 sheets.

## 2. USING TASCOPY FOR THE FIRST TIME

Press the reset button on the side of the computer and place the microclinic curridge in microdive I when the Sinclair copyright message appears on the screen. Pless 17 or 72 as normal, this will load the BASIC program "BOOT" and start in purporty.

The screen copy programs are in machine code and are leaded by the program 'BOOT' into memory so that they can be configured to your ponter and your requirements

The "BOOT" program then merges in the large BASIC configuring crogram which customises the TASCOPY code.

Some introductory text is followed by a list of printers next to the letters A in O. If your printer is on the list then press the appropriate letter. It your printer is not an the list then you will need to use the "OTHER" option. It is necessary to refer to and understand the appropriate sections of the printer manual to use this option. If you need to use this option then refer to section 6.

If your printer is capable of printing in two graphics modes then you will be asked which mode you wish to print in. In double density mode the grey scale resolution is twice that of the double density mode but takes twice the amount of time to print.

You will then be asked if your printer is set up to:

- (A) do an automatic line feed on receipt of a carriage return from the computer, or
- (B) require a line feed code from the computer in addition to a camage return.

Select A or B as appropriate, or, if in doubt take the course of action suggested by the program.

The next section enables you to redefine the way in which TASCOPY represents colour in the grey scale and monochrome programs. The first time user is advised to press N for nom response to the two questions concerning colour redefinition. For instructions on how to redefine the colours see section 5.

# 3. SAVING CUSTOMISED TASCOPY SOFTWARE

Load and run the software as described above and press the appropriate key when given the option to save to microdrive. The program will prompt you to take the necessary steps.

The saved TASCOPY code can have two forms. In the first instance it can be saved in such a way that you can load it using the BASIC CALL command. This will set up TASCOPY as a new BASIC keyboard which will remain effective until you reset the computer.

In the second instance it can be saved so that you can load and run TASCOPY by using the EXEC command. This method uses the mutatizating capability of the QL and allows you to do some other task on the computer once the screen copy has been tritiated. The disadvantages of this method are that you cannot pass the window channel number to the program and the break key cannot be used to stop the printing.

## \* LOADING AND USING THE CUSTOMISED TASCOPY SOFTWARE

Before junning the Tascopy machine code has the first time after loading you must set up the boad rate for your printer by executing:

BAUD XXX

where room is the boud rate that your printer is set up for.

### 4.1 Ustag Tancopy as a New Keyword

To load your customised Tascopy software, put the microdrive cartridge containing the customised software into microdrive. I and type in the following instructions on the computer:

a = RESPR(X)
LBYTES MDV1\_(llename

where X is one of the following numbers

1		1 LO	10.00
for the poster program	"In the monitor version grey scale program	or the TV version grey scale program	for the monochrome program

filename is the name of the customised program

To run the Taxtopy machine code, type one of the following

TO DE COLER	TANDOCTE NOW		「私力のなく」は、	であるのとの
to run poster program	to run monitor version grev scale program	to run TV persion grev scale program	marga karome program	

The 4 words above are extensions to hasic and can be used as basic keywords

The TASCOPY schware will print out any of the screen windows or the whole screen is 12 ×256 mode 0. 256 ×256 mode 8). If you are using a TV screen and you want to print out the whole screen then use the monitor version, you do not have to use the TV version with a TV screen or the monitor version with a monitor. The only difference between the programs is the size of the window that the TV program will print on a certain which is only capable of printing 450 dots across. To print out the contents of a certain window then type the command (TASMONO, TASCOPY\_TV, TASCOPY\_MON or TASPOSTER) followed by the symbol \*\* and the channel number e.g.

TASPOSTER #1
TASCOPY\_TV #0
TASMONO #7

The channel specified must be a screen channel which is currently open otherwise TASCOPY will give an error. If you are using TASCOPY\_TV then the window must not exceed the size limits (unless using a Mannesman Tally MT-80, an Admate DP-80, a Shimwa CP-80 or a Tattung TP-80 printer) otherwise the error. Window too big! will be returned. The error 'Invalid channel' will be given if the channel open is not a screen channel or a console channel.

tine #1 default printing screen but all of the others will use the whole screen (512×256 If a channels not specified then a default window will be used. TASCOPY\_TV will use mode 0, 256×256 mode 8).

operating system until you reset the computer The Tascopy coule resides in the resident procedure area and will not be removed by the

software, as described at the beginning of this section, must be performed BEFORE. BASIC program containing TASCOPY keywords is loaded. It is important to note that the loading and initialisation of the customised TASCOPY

## 4.2 Using Lascopy with an Exec Command

type the rollowing To load and run TASCOPY as a multitasking job, place the microdrive into drive, I and

EXEC MONT therwork

where filename is the name of the customised program which has been saved for use in this way

basic keyword and typing in the following You can change the window which the exec program will use by saving it for use as a

reset the computer and type

a=RESPR(X) BYTES MOYT Blename, &

down the CTRL key and press the space ber until the message 'Not complete' appears. Run the machine code by typing the appropriate new BASIC keyword and then hold

SEXEC MOVI\_new\_Bersense, a+12.X-12,0

4.1 for the value X and the BASKC Keyword

will have been saved and you can use the EXEC command

### REDEFINING THE COLOURS

program prints one dot for every screen pixel and so only 2 colours are represented on the colours that are printed as a dor in the monochrome program. The monochrome the paper. By default, the program will only point a pot for a pixer tild a white however The first question regarding redefining the colours assis whether or not command to after this can be changed by pressing Y here and following the instructions

can be redefined. The program enables you to do that with ease. If you want to redefine redefine. The QL uses 8 colours numbered into T and you may consist any of mose any of the grev scale programs. You will then be asked which chiout you was in any colours, type  $\mathbb Y$  in response to the question (Do you want to redoment the conocts for The dot patterns which are printed out to represent colours in the growscale pringrains screen are instructions, which tell that how to edit the pattern chosen your colour you will see a grass which show the sorpainant. At the resections colours by typing in a number between it and Tand pressing SNTER. When the new wee

the old pattern will not be replaced with the new one When you have frished editing a pattern be sure to press Riberor lizating 教学院

choice of saving a copy of the configured code running the base program again printer baud rate and will return to the inertuikhen the screen 1000 has feet formers entering basic or printing a test isseen copy. The program wild ask upulity offer your TASCOPY machine code programs have teen configured and the will be given the When you have imished echang the dor patients you will be informed

# INSTALLING YOUR PRINTER USING THE 'OTHER'

and press ENTER. There now tollows a series of questions exicing for printer control After selecting the "Other" option you will see some information on the screen, was this

in your manual as. which stands for Escape, has a code of 27. Thus if a control code sequence was written Many sequences of codes are written down using letters and the special sumbol ESC better printer manuals have whole sections explaining each code in detail in the functions. They can be found in your princer manual, usually, in a list on the book. The TASCOPY configuring program, these codes are typed in as a sequence or numbers The control codes are ASCII codes used by your printer to switch on its afficient

27.65.8 where 27 is the code for ESC. 65 is the code for capital A and S is a then the codes for Tascopy would be decimal number

## A SECURITY BACKUP COPY OF TASCOPY

The state of the s

rogram on the TASCOPY cannodge which is run by entering the

#### LRUN MOVI\_CLONE

to put the master cartridge into interoctive 1 and the unformatted odnive 2. The program will format the cartridge in microcinive 2 and 5COPY programs onto the new cartridge. The program takes about and will not prompt the user further until the backup is complete.

Intals warn that the continuous printing of bit image data can comage this to comage was detected in comprehensive testing of the are. Tasman Software Ltd. can assume no responsibility, for any in

#### VOTICE

ware in both the machine code and the basic programs with exposign tare. Ltd both in the formathantit is supplied and in any customised with the formathantit is supplied and in any customised with the formathantit is supplied and in any customised with the formathantit is supplied and in any customised with the formathantit is supplied and in any customised with the formathantit is supplied and in any customised with the formathantit is supplied and in any customised with the formathantit is supplied and in any customised with the formathantit is supplied and in any customised with the formathantit is supplied and in any customised with the formathantit is supplied and in any customised with the formathantit is supplied and in any customised with the formathantit is supplied and in any customised with the formathantit is supplied and in any customised with the formathantit is supplied and in the supplied and in the formathantit is supplied and in the formathantit is supplied and in the formathantit is supplied and in the supplied and