The Interface to the RTF Decoder

The interfacing of the RTF Decoder both to the remainder of the TELESOFT filing system and to the ontile world is described in these notes.

It has previously been described in:

"A Redefinable Telesoftware Format" Document Version 1.2 (C.J. (C.J.Osmall) echanges in

and in:

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"The BBC Microcomputer Teletext & Videotex User Interface" 4th Draft (A.R.Gordon)

These notes combine the information from both of the documents (with minor modifications) and supercede themon this subject.

After an unitialisation of the decoder (CAU initall), interface is by means of tube-compatable operating system calls:

840 OSFIND = CALL open ordered = CALL getaddresses 802 OSFILE OSFILE XX7 = CALL opendisordered 8FB = CALL gettelebyte OSBGET &FB OSBGET calls to the remainder of the TELESOFT filing system OSWORD & 7A osword osword & 713 = CALL get info *OPT messagelevel *OPT 801 = CALL *OPT & Ø4 = CALL resetchoice

Thus there are eight entry points to the decoder & the decoder makes two different types of calls itself (both with regard to the page buffer supervised by the remainder of the TELESOFT filing system).

The Interface to the RTF Decoder/unt.

FILES

When the TELESOFT filing system is selected, all file commands are routed to it. Five of these (one OSFINE two OSFILE and two OSBGET calls) concern the RTF decoder directly.

· OSFIND & 4\$ (calls open ordered) OPEN FILE (ORDERED)

On entry: A = &40 XY points to the name of the file to

be opened (terminated in & ØD)

On exit: Y = &FB (handle)

OSFILE & Ø5 (calls getaddresses) TELESOFTWARE LOAD ADDRESSE!

A = & Ø5 On entry:

On exit: XY points to a control block:

points to the title of the $XY + \emptyset$ file (a string ending in hex & &D) XY+1

xy+2

load address for next section xy+3

of telesoftware XY+4 XX+2

XY + 6

execution address of telesoftwo XY+7

file XX+8

xy+9

XY+&A = Ø if execution address is know

<70 otherwise

· OSFILE & \$77 (calls opendinordered) OPEN FILE (DISORDERED)

On entry: A = & Ø7 XY points to a control block:

XY+00 } points to the title of the XY+1 } file (a string ending in hex &q

(PTO)

The Interface to the RTF Decoder /cont.

OSFILE & Ø7 /wnt.

On exit: A = &FB (handle)

· OSBGET&FB (calls gettelebyte)

DECODED TELESOFTWA

On entry: Y = & FB (handle)

On exit: $C = \emptyset$ indicates successful acquisition
of a decoded byte (passed in A) C = 1 indicates some form of EOF condition

A contains the reason code: A = & ØØ: the whole file has been loaded

A=&Ø1: end of a section of a disordered file; new comment is available

A = & \$2 : end of a section of a disordered file; no comment available.

· OSBGET &FD (calls ARG's code)

PAGE BUFFER

On entry: Y = &FD (handle)

On exit: C= Ø indicates successful acquisition of a byte from the page buffer (passed in A)
C=1 indicates some from of EOF condition

A contains the reason code:

A = & Ø2: no more data available from source

A = & Ø1: end of file marker has been passed

A = & Ø2: end of block marker has been passed

A = & Ø3: end of buffer has been passed

(a call of OSWOR) is needed to replenish it

The Interface to the RTF Decoder (wut.

osword

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The two OSWORD calls would logically be more suited to OSBYTE calls; however all OSBYTE calls have been allocated for MOS functions.

· OSWORD & 7A (calls ARG's code) PAGE BUFFER On entry: A = &7A XY points to control block: Malor XY+ Ø = 8,000 Load next page into page buff SET xy+Ø=&Øl Reload same page

TOP XY+Ø=&02 Mark start of block xy+Ø=&Ø3 Return to start of block XY+ Ø=& Ø4 Move back one position BIT xy+\$= &\$5 Get absolute page specified from XY+1 onwards 1.88800

(terminated by 80D) XY+Q=&\$6 Get linked page specified at XY+1 branch.

XY+Ø=&Ø7 Get previous page XY+Ø=&Ø8 Mark, endof block xy+0=809 Mark start of name.

= BOH Get nesct start of chali tog

OSWORD & 7B (calls get info) & W unlock togs: not ready 625 INFORMATION Fool NOTE C ZA

sterched. On entry: A = & TB

TOTAL STATE OF STA XY points to control block:

* XX+ Ø = & ØØ Request file title & version n XY+Ø = & Øi Request new comment XY+00 = & \$2 . Request code to be sen

XY in 8 FO XY +x = 8, x3 Request code to be sent to get same block aga to get same block aga

(xy+6) in An exit: XY points to requested data

XY+0 is length of data

XY+1 onwards is the data $X = Y = \emptyset$ if data requested is not available.

The Interface to the RTF Decoder (cont.

*OPT

enagelevel) - MESSAGES

(calls messagelevel)

* OPT 1, XX

The level of comments decoded and made available for display (via OSASCI) is set to 255 by default The *OPT command resets the level to the value passed by it (xx).

· * OPT & \$4

(alls reset chorice) -RESET

* OPT 4, 49

By default the decoder will reset itself at the end of a telesoftware file.

The * CPT command with yy \$ \$ will stop the decoder from resetting itself. with yy = \$ will make it reset itselfat the end of a telesoftware file).

Initialisation

· CAU initall

INITIALISATION

A call of initall performs a power-up initialisation of the RTF decoder.

> C.J. O. 23-1 June 182. subject to revision