

DECUS NO.	12-81
TITLE	VR12 SCOPE HANDLER FOR OS/8
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VR12 SCOPE HANDLER FOR OS/8

DECUS Program Library Write-up

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VE12 SCOPE HANDLER FOR US/8 (RUNNING ON POP=12) MANIO DENOBILI ET. AL. I WISH TU THAWK THE FOLLOWING OPGANIZATIONS FOR THEIR UNUDESTIMMARLE HELP: +:5 1:5 NUTHER FUE IT FARTILULAR, I WEULD LIKE TO THANK THE FOLLOWING BURS: STALLEY KAPINGWITZ RELEMBEL LANY PLIN MAURIN ILLANY ELEKMAN JALK OURNESS RUL LUN-AN PERE JACINS BUT DCAN PAUSE BETHRANGER ALLYSIUS DLKP FLUIM

TV11 15 THE ELEVENTH VEHSION OF THE PRUGRAP, 'TV', WHILE 15 A VH12 SCEPE HANDLER FUR US/8 RUNNING ON THE PEP-12. 13 - ILL ALSE AUAR AJTE PS/8.

RESTRICTIONS

IN TO LALLLE LIKE ANY ESTR DEVICE HANDLER WITH THE FILLENTING CONFLITIONS AND RESTRICTIONS:

- 1. 11 15 A 1 L FACE MANULER.
- 2. INE BUTFTE SPECIFIED IN THE CALL TO THIS HANDLER POST STAFT AT AN EVEN ALURESS.
- S. ITE MANULER COES NOT PRESERVE THE STATUS OF THE RETENANT FLAG. THE MANULER ALWAYS RETURNS THIT THE RETURNS FLAG CLEARED.
- W. INE MANNEER OFES NOT PRESERVE THE STATUS OF THE ILIGE MODEL SPECIAL FUNCTIONS REGISTER. THE HANDLER PLAATS RETIENS WITH THE DISPLAY CHARACTER FLAG SUT TO SMALL SIZE CHARACTERS.
- D. THE MANNERS DUES NET CHECK FUR CTRL/C.
- D. INTE BAGGLER IS A WRITE-UNLY DEVICED BUT NO ERRUF is given if you thy to read from it. In SLCH crots, or protitable results may happen, although our procease will not bord.
- 7. IF THE MITTER ASSULIATED WITH THE HANDLER CALL MARKENS IN EVENLAR BETA REDISTER 1 OF THE LINE SELVENT MUTFER LOAD MAY DISPLAY HADLY. NOTE MONEVER, THAT THE CUTTENTS OF YOUR BUFFER ARE ALWAYS PRESERVED. (THIS CONTITION MAPPENS IN MALS.) N.M. THE HANDLER TEMPLHARTLY DESTROYS BETA REGISTER 1, M.T. THE HANDLER TO RESTROY DESTROYS BETA REGISTER 1, M.T. THE HANDLER TO RESTROY DESTROYS BETA REGISTER 1, M.T. THE HANDLER TO RESTROY DESTROYS BETA REGISTER 1, M.T. THE HANDLER TO RESTROY DESTROYS BETA REGISTER 1, M.T. THE HANDLER TO RESTROY DESTROYS BETA REGISTER 1, M.T. THE HANDLER TO RESTROY DESTROYS BETA REGISTER 1, M.T. THE HANDLER TO RESTROY DESTROYS BETA REGISTER 1, M.T. THE HANDLER TO RESTROY DESTROYS BETA REGISTER 1, M.T. THE HANDLER TO RESTROY DESTROYS BETA REGISTER 1, M.T. THE HANDLER TO RESTROYS DESTROYS DES
- D. ATTLE INE MANULER IS IN FACT PAGE RELOCATABLE, ONCE IT IS USAVED INTE CORE, IT MAY NOT BE MOVED TO ANUTHER PAGE.
- AT THE MANNERS MAY DISPLAY SUME GARBAGE CHARACTERS ATTER THE END OF FILE OF THE ENCOUNTERS A CTHEZZ.
- 14. THE LAST CHARACTER DISPLAYED ON A SCUPE FAGE MILMI BE AISPLAYED AGAIN AT THE TOP OF THE NEXT PAGE.
- 11. THE MANULER LUES NOT HANDLE TABS AND FORM FEEDS CORRECTLY.
- TER MANILER PLES NOT HANGLE VERTICAL TABS CLARECTLY.

10. RUDUOTS ARE NOT IGNORED BY THE HANDLER.

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HANDLER USAGE

ife RECONDENDED FEVICE NAME FOR THE MANDLER IS TV:. if PAY UNLY BE USED AS AN OUTPUT DEVICE. if (AY DE USED WITH ANY PROGRAM WHICH SUPPORTS 2 PAGE MANDLERS. TYPICAL DOADE: if with uintectory disting on the scope: ... FIP *IV:<SYS:/L if fil a mad pass 3 disting on the scope: ... FALD *.IV:<PREGRE.PA if (LUE AT A SCORCE FILE VIA THE SCOPE: ... FIP *IV:<FILENT.AS/T</pre>

INCLE THAT THE ZT CETTON IS USED IN PIP SINCE THE HANDLER CAULD MANLE TARS CONKECTLY.

UPPRATION

WHEN UMARAULERS ARE SENT TO THE SCOPE USING THIS HANDLER, THEY ARE HISPLAYED ON THE VR12 SCOPE, WHENEVER THE SCOPE GETS FULL, THE MANLIER STOPS REALING MORE CHARACTERS FROM THE DUFFER AND JUNI STIS THERE DISPLAYING CHARACTERS ON THE SCOPE, IT ISPLAYS WHAT IS KNOWN AS A SCUPE PAGE. FRE USER CAN ADVANCE TO THE WEAT SLOPE PAGE BY MITTING ANY UPARAULER UN THE TELETYPE. THE SCREEN IS FULL AMENEVER THE END OF THE BUFFER IS REACHED, UP AFENEVER THE NUMMER OF LINES GISPLAYED BECOMES EQUAL TO THE MAXIMUM NUMBER SPECIFIED BY THE USER, CONTROL OFEN STRUCK AT A FOINT WHEN THE HANDLER IS UTSPLAYING THE LAST SCOPE PAGE IN A PARTICULAR BUFFER LOAD.

THE USER SETS THE NUMBER OF LINES HE WISHES TO SEE IN A SINGLE SUITE HAVE VIA THE RIGHT SWITCHES (SWITCH REGISTER). THE FIGHT SETTUARS ARE SET TO THE NEGATIVE OF THE NUMBER OF LINES TO BE MISHIAYED IN A SUCPE PAGE. DEPENDING OF THE LENGTH OF THE LINES BEING DISPLAYED, FEWER LINES SHOULD BE ALLOWED OF AS TO PREVENT FLICKER.

THE DISPLAY FLICKERS MORE THAN TYPICAL DEDICATED DISPLAY REDEINES BELADSE THE HANCLER DISPLAYS DIRECTLY FROM THE ADDIT IN THE ESERTS RUFFER. NO INTERMEDIATE BUFFER IS USED BELADSE THE HANDLER MUST FIT ENTIRELY IN 2 PAGES.

IF THE LIFE BEING DISFLAYED HITS THE RIGHT MARGIN OF THE SULPE, AUGUIJONAL CHARACTERS ARE THEN DISPLAYED ON THE NEXT Line.

CREATING THE HANCLER

THE BINARY OF THE HANDLER IS IN A FILE CALLED TV11,BN . INTO IS 10 A FURM SUITABLE TO BE LOADED BY OS/8 BUILD. THE FERMAMENT UPVICE NAME IS VR12. THE SPECIFIC HANDLER NAME IS TV. YOU CAN LOAD THE HANDLER INTO BUILD FROM BUILD BY THE LUMMAND

SULAU SYS: 1V11

11 15 THEM INSERTED VIA THE COMMAND

BINSERT VH12, TV

FUR LETAILS OF USING DS/8 BUILD, PLEASE CONSULT THE DS/8 USER'S REFERENCE MANUAL.

IV CAN ALSO BE INSERTED INTO AN OS/B SYSTEM USING CONFIG. THIS IS A STRAIGHTFORWARL THOUGH TEDIOUS JOB, USERS WHO WISH TO UN IT THIS WAY SHOULD CONSULT THE PS/B (OR OS/B) USER'S GUIDE AND SUPTWARE SUPPORT MANUAL, AND THEY SHOULD HAVE A LISTING OF UNVERSE AND THEY SHOULD REALLY KNOW WHAT THEY'RE COING. THE SULKCE OF THE MANCLER IS IN THE FILE CALLED TV11.FA IF USING DUNFIG, HE SURE TO CHANGE THE HANDLER ORIGIN SETTING AND MENUVE THE CODE AT ## WHICH IS USED ONLY BY FUILD.

1114

AN EXPENIMENTAL IMPROVED VERSION OF THE SCOPE HANDLER IS GIVEN IN THE SUDNCE FILE CALLED TV14.FA. ITS FEATURES ARE

- 1. THE NUMBER OF LINES DISFLAYED IN A SCOPE FAGE ARE UNTERMINED BY A POIENTIOMETER (PUT) IN THE PDF-12 INSTEAD OF THE RIGHT SAITCHES.
- 4. A FURM FEED ENCOUNTERED IN THE BUFFER INDICATES END OF CURRENT SCOPE PAGE.

AND VERSION HAS BEEN TESTED AND WORKS, FUT HAS NOT BEEN TESTED AN INDROLABLY AS VERSION 11.

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LUMMENTS ARE WELLOME CONCERNING THIS PROGRAM LEITTER VERSION 11 OF VERSION 14], THE USER SHOULD FEEL FREE IL FLUIFY THE PROGRAM MINSELF. THE CODE WAS WRITTEN VERY HASTILY A' O SU SEVERAL USEFUL FEATURES ARE MISSING, A LITTLE CARFFUL THOUGHT SHOULD BE ABLE TO REMEDY THIS DEPLORABLE SITUATION.

ALL LUMMENTS, CRITICISMS, AND ESPECIALLY QUESTIONS Smully be directed to:

> MARIU DENDEILI IVU BUX L FULY JUFSTIEN SQUIETY FULYTELANTE INSTITUTE OF BROOKLYN SSS JAY STREET DEUDNLYN, N.Y. 11261

P?S - 12 - 08 - UA

This LINCtape contains the source and binary for two programs: I. The VRI2 Scope handler for PS/8 Source is TV11.PA Binary is TV11.BN Experimental source is TV14.PA 2. The LAP6-DIAL to PS/8 Converter. Source is DIAL15.PA Save image is DIAL15.SV

This LINCtape is already a PS/8 system tape containing the following handlers:

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(same as SYS:)
(high speed)
(high speed)
(VR12 scope handler)
(LP08 line printer)
(Annalex line printer)