DECUS
PROGRAM LIBRARY

DECUS NO. | 8-149

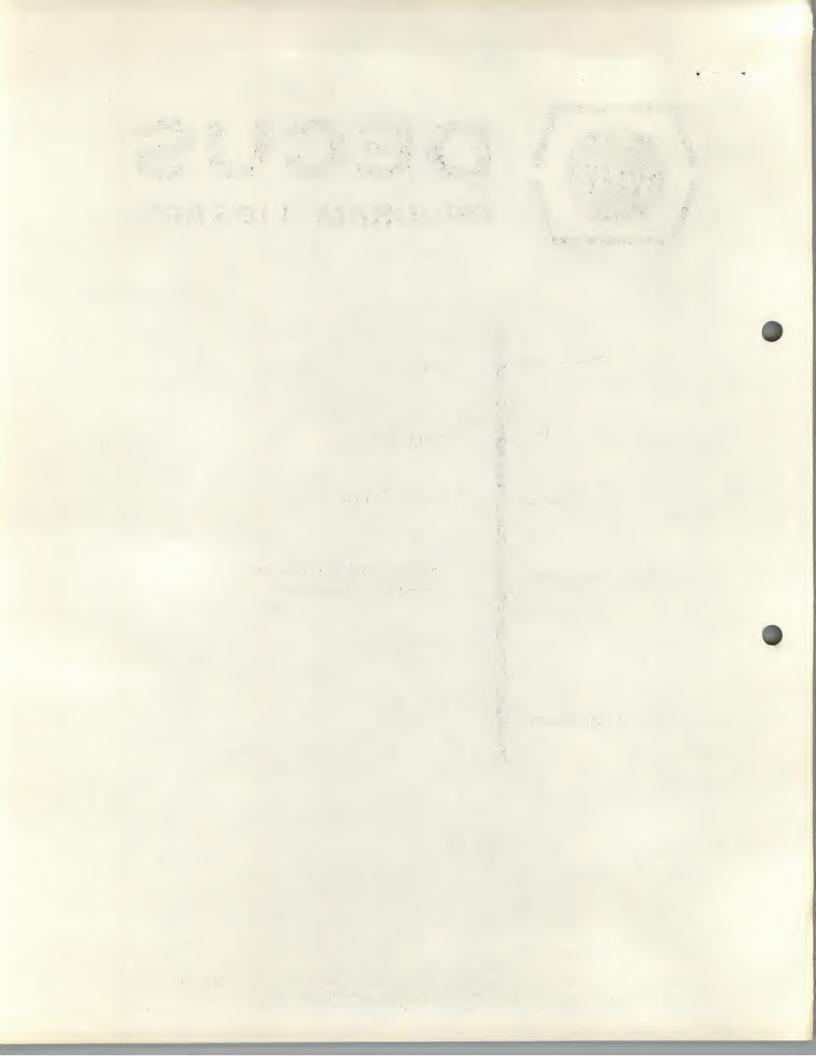TITLE | CORE WINDOW

AUTHOR | Donald C. Uber

COMPANY | Lawrence Radiation Laboratory
University of California

DATE | August 7, 1968

SOURCE LANGUAGE |

CORE WINDOW

OPERATING INSTRUCTIONS

    1.   Load CORE WINDOW into any Field using the Binary Loader.

* 2.   Set the DATA FIELD switches to the Field to be viewed.

* 3.   Set the INST FIELD switches to the Field CORE WINDOW
       was loaded into.

    4.   Set the SWITCH REGISTER to 7400.

    5.   Press LOAD ADD.

    6.   Press START.

    7.   Set the SWITCH REGISTER to the address of the First word to
       be viewed. This setting may be changed at any time.

* Ignore if 4K memory is used.

1

```
/CORE WINDOW12/3/68
/SA= 7400
/DISPLAYS 64 CORE WORDS FROM FIELD IN DF SWITCHES
/STARTING AT OCTAL LOCATION IN SWITCH REGISTER.
/AUTO-INDEX REGISTER 17 USED

D=10/SPACE BETWEEN POINTS
T=4000/COLUMN TERMINATOR
TT=6000/CHAR TERMINATOR
INDEX=17/AUTO-INDEX POINTER TO POINT LIST

                  *7400
7400    7577    START,RDF
7401    1377    TAD (CDF
7402    3223    DCA DF/STORE DF CHANGE
7403    7577    RIF
7404    1377    TAD (CDF
7405    3206    DCA .+1
7406    7000    NOP/CHANGE DF TO IF SW SETTING
7407    1206    TAD .-1
7410    3225    DCA IF/CHANGE DF BACK AFTER GETTING DISPLAY WORD
7411    7604    FRAME,LAS
7412    3302    DCA ADDR
7413    1311    TAD Y0
7414    3307    LINE,DCA Y
7415    1310    TAD X0
7416    3306    DCA X
7417    1302    TAD ADDR
7420    4241    JMS WORD/DISPLAY ADDR
7421    1315    TAD XTRA
7422    3306    DCA X
7423    7000    DF,NOP/CHANGE DF TO GET DISPLAY WORD
7424    1702    TAD I ADDR
7425    7000    IF,NOP/CHANGE DF BACK TO IF
7426    2302    ISZ ADDR
7427    7000    NOP
7430    4241    JMS WORD/DISPLAY WORD
7431    7510    SPA
7432    5222    JMP DF-1/DISPLAY NEXT WORD
7433    7200    CLA/END OF LINE
7434    1307    TAD Y
7435    1316    TAD LINSPC
7436    7500    SMA
7437    5214    JMP LINE/DISPLAY NEXT LINE
7440    5211    JMP FRAME/START NEW FRAME
7441    0000    WORD,0/DISPLAYS A WORD
7442    3305    DCA DISWRD
```

2

```
IR   7774   AT   7443
7443   1374   TAD (-4
7444   3303   DCA CHRCNT
7445   1305   CHAR,TAD DISWRD
7446   7004   RAL
7447   7006   RTL
7450   3305   DCA DISWRD
7451   1305   TAD DISWRD
7452   7004   RAL
7453   0007   AND (7/AC CONTAINS CHAR.
7454   1317   TAD (TABLE
7455   3304   DCA POINTR
7456   1704   TAD I POINTR
7457   3017   DCA INDEX/POINTS TO CHAR POINT LIST
7460   1313   TAD CHRSPC
7461   1312   COLUMN,TAD PTSPC
7462   1306   TAD X
7463   7577   DXL
7464   3306   DCA X
7465   1307   TAD Y/BASE OF CHAR
7466   1417   POINT,TAD I INDEX/ADD DELTA Y
7467   7577   DYS/DISPLAY POINT
7470   7500   SMA
7471   5266   JMP POINT
7472   7004   RAL/END OF COLUMN
7473   7700   SMA CLA
7474   5261   JMP COLUMN/DISPLAY NEXT COLUMN
7475   2303   ISZ CHRCNT
7476   5245   JMP CHAR/DISPLAY NEXT CHAR
7477   1306   TAD X
7500   1314   TAD WRDSPC
7501   5641   JMP I WORD/END OF WORD
7502   0000   ADDR,0/ADDR OF WORD BEING DISPLAYED
7503   0000   CHRCNT,0/CHAR COUNTER
7504   0000   POINTR,0
7505   0000   DISWRD,0/WORD BEING DISPLAYED
7506   0000   X,0/X-COORDINATE OF POINT
7507   0000   Y,0/BASE OF CHAR
7510   5757   X0,6000-21/INITIAL VALUE OF X
7511   1623   Y0,1623/INITIAL VALUE OF Y
7512   0010   PTSPC,D/SPACE BETWEEN POINTS
7513   0011   CHRSPC,21-D/EXTRA SPACE BETWEEN CHARS
7514   0051   WRDSPC,51/EXTRA SPACE BETWEEN WORDS
7515   0051   XTRA,51/EXTRA SPACE AFTER ADDRESS COLUMN
7516   7703   LINSPC,-75/-SPACE BETWEEN LINES
7517   7526   TABLE,ZERO-1/ORIGINS IN CHAR POINT LIST
7520   7542   ONE-1
7521   7555   TWO-1
7522   7277   THREE-1
7523   7312   FOUR-1
7524   7326   FIVE-1
7525   7343   SIX-1
7526   7360   SEVEN-1
```

3

```
7527    0010
7530    0010
7531    0010
7532    4010    ZERO,D;D;D;D+T/CHAR POINT LIST
7533    0000
7534    4050    0;D+D+D+D+D+T
7535    0000
7536    4050    0;D+D+D+D+D+T
7537    0010
7540    0010
7541    0010
7542    6010    D;D;D;D+TT
7543    0000
7544    4030    ONE,0;D+D+D+T
7545    0000
7546    4040    0;D+D+D+D+T
7547    0000
7550    0010
7551    0010
7552    0010
7553    0010
7554    4010    0;D;D;D;D;D+T
7555    6000    TT
7556    0000
7557    4040    TWO,0;D+D+D+D+T
7560    0000
7561    0010
7562    4040    0;D;D+D+D+D+T
7563    0000
7564    0020
7565    4030    0;D+D;D+D+D+T
7566    0000
7567    0030
7570    6010    0;D+D+D;D+TT
                *7300
7300    0010
7301    4040    THREE,D;D+D+D+D+T
7302    0000
7303    0030
7304    4020    0;D+D+D;D+D+T
7305    0000
7306    0020
7307    0020
7310    4010    0;D+D;D+D;D+T
7311    0010
7312    6040    D;D+D+D+D+TT
7313    0020
7314    0010
7315    0010
7316    4010    FOUR,D+D;D;D;D+T
7317    4020    D+D+T
7320    4020    D+D+T
7321    0000
7322    0010
7323    0010
7324    0010
7325    0010
7326    6010    0;D;D;D;D;D+TT
7327    0000
7330    0030
7331    0010
```

4

```
7332    4010    FIVE,0;D+D+D;D;D+T
7333    0000
7334    0030
7335    4020    0;D+D+D;D+D+T
7336    0000
7337    0030
7340    4020    0;D+D+D;D+D+T
7341    0010
7342    0010
7343    6030    D;D;D+D+D+TT
7344    0000
7345    0010
7346    0010
7347    0010
7350    0010
7351    4010    SIX,0;D;D;D;D;D+T
7352    0000
7353    4020    0;D+D+T
7354    0000
7355    4020    0;D+D+T
7356    0000
7357    0010
7360    6010    0;D;D+TT
7361    0000
7362    0010
7363    4040    SEVEN,0;D;D+D+D+D+T
7364    0020
7365    4030    D+D;D+D+D+T
7366    0030
7367    4020    D+D+D;D+D+T
7370    0040
7371    6010    D+D+D+D;D+TT
```

5

```
ADDR      7502
CDF       7577
CHAR      7445
CHRCNT    7503
CHRSPC    7513
COLUMN    7461
D         0010
DF        7423
DISWRD    7505
DXL       7577
DYS       7577
FIVE      7327
FOUR      7313
FRAME     7411
IF        7425
INDEX     0017
LINE      7414
LINSPC    7516
ONE       7543
POINT     7466
POINTR    7504
PTSPC     7512
RDF       7577
RIF       7577
SEVEN     7361
SIX       7344
START     7400
T         4000
TABLE     7517
THREE     7300
TT        6000
TWO       7556
WORD      7441
WRDSPC    7514
X         7506
XTRA      7515
X0        7510
Y         7507
Y0        7511
ZERO      7527
```