

M-1129

PAGE 1 OF

DATE October 2, 1961

SUBJECTOctal Dump & Read-In-Mode Punch
TO PDP Distribution List

ABSTRACT This program provides a means for typing or punching out information from any section of core memory. The console typewriter provides the control information along with sense switch #1.

FROM

Steve Lambert

Harlan E. anderson

M - 1129 Page 2 of 5

OPERATING PROCEDURE

- #1 Read-In Octal Dump RIM Punch Tape. (Three tapes are presently available starting at registers 0, 4000, and 7000.)
- #2 Set SS #1 to desired position. (SS #1 Up, read-in-mode tape will be punched upon completion of control statement "r". Down, Octal type-out will occur upon completion of control statement "f".)
- #3 Type in starting address followed by the letter "b". (Leading zeros may be omitted.)
- #4 Type in final address and the letter "f". (Leading zeros may be omitted. Octal Dump will occur after "f" is typed.)
- #5 Type in an address and the letter "j" for a jump statement that will be punched at the end of the RIM tape. (This is not necessary if the jump statement is not desired.)
- #5 Type "r" and the RIM tape will be punched. (Upon completion of a punch or type-out, the program will reset itself for entry of more control statements.)
- Note: Should a mistake be made during type-in of control statements, type "b" as shown below or restart Octal Dump RIM Punch program.

0b31 mistake b0b30f

Example:

0b30f

SS #1 down, type-out occurs.

do not space between characters

0b30f5jr

SS #1 Up, Punch-out results.

M - 1129 Page 3 of 5

```
, Octal Dump & Read-In-Mode Punch
, 9/20/61
, S. Lambert
                     cliaf 764207
opd
                     dzm s
start
                     dzm e
                     cliaf
                     dzm temp
                     szf * 1
read
                     jmp read
                     cliaf
                     tyi
                     rcr s6
                     sad b
                     jmp begin
                     sad f
                     jmp final
                     sad j
                     jmp loop
                     sad r
                     jmp punch
                     rar s6
                     rar s6
                     and seven
                     add temp
                     ral s3
                     dac temp
                     jmp read
                     lac temp
begin
                     rar s3
                     dap s
                     dap a
                     jmp start & 2
                     lac read & 1
loop
                     dac jump
                     lac temp
                     rar s3
                     dap jump
                     jmp start & 2
final
                     lac temp
                     rar s3
                     dap e
                     idx e
                     szs 10
```

```
M - 1129
                                                   Page 4 of 5
                     jmp start & 2
                     lio cr
                     tyo *
                     law * 4
                     dac temp
                     lac s
                     sad e
                     jmp return
                     rcl s6
                     dac a
                     lac a
sr
                     cli
                     rcl s3
                     dac a
                     jda type
                     isp temp
                     jmp sr
                     lio tab
                     tyo *
                     law * 6
                     dac temp
                     lac * s
                     dac a
                     ac a
pr
                     cli
                     rcl s3
                     dac a
                     jda type
                     isp temp
                     jmp pr
                     idx s
                     jmp final & 6
                     0
type
                     dap xt
                     dio type
                     lac type
                     sza
                     jmp pt
                     lio zero
                     tyo *
хt
                     jmp
                     lio type
pt
                     tyo *
                     jmp xt
                                           , adjustment for beginning leader
                     law * 200
punch
                     dac temp
                     cli
                     ppa *
                     isp temp
                     imp ¢ - 3
```

```
M - 1129
                                                   Page 5 of 5
                     lio a
pun
                     jsp out
                     lio * a
                     jsp out
                     idx a
                      idx s
                      sas e
                      jmp pun
                      lio jump
                      jsp out
                                             , adjustment for final leader
                      law * 30
                      dac temp
                      cli
                      ppa *
                      isp temp
                      jmp ¢ - 3
                      lac deposit
return
                      dac a
                      dzm jump
                      jmp start
                      dap exit
out
                      ppb *
                      ril s6
                      ppb *
                      ril s6
                      ppb *
                      jmp
exit
                      510000
r
                      410000
j
                      620000
b
                      660000
£
                      0
s
                      0
е
                      320000
a
                      0
temp
                      0
 jump
                      320000
 deposit
                      20
 zero
                      36
 tab
                      77
 cr
                       7
 seven
 jmp start end.
```