



DECUS

PROGRAM LIBRARY

DECUS NO.	12-51
TITLE	MAGSPYD
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SOURCE LANGUAGE	LAP6-DIAL

MAGSPYD

DECUS Program Library Write-up

DECUS NO. 12-51

LN=1

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MAGSPYD IS A MODIFICATION OF MAGSPY THAT PROVIDES THE ABILITY TO LOOK AT ANY LENGTH TAPE, AND TO VIEW THE UNPACKED ASCII GENERATED BY THE DIAL-MS ASSEMBLER WITH A LISTAPE INSTRUCTION. IT ALLOWS CONVENIENT USE OF THE TELETYPE TO RESTART THE PROGRAM, REWIND THE TAPE, GO TO DIAL, OR TO DISPLAY A HELP FRAME TO EXPLAINING THE SENSE SWITCH OPTIONS. IT INCLUDES AN A/D KNOB TO CONTROL OF THE NUMBER OF LINES DISPLAYED ON THE SCREEN AND A SENSE SWITCH OPTION TO STOP THE MOVEMENT OF THE DISPLAY. IT ALSO CONTAINS THE OCTAL DISPLAY AND LARGE/SMALL WAVEFORM OPTIONS OF EARLIER MODIFICATIONS.

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THIS MODIFICATION USES EXTENDED ADDRESSING TO PERMIT THE VIEWING OF LINC TAPES OF ANY LENGTH. AT PRESENT IT IS SET TO VIEW TAPES WITH A LENGTH OF 1600(8) BLOCKS (SEE PRECAUTION FOR SHORTER TAPES). WHEN THE END LIMITS ARE REACHED THE DISPLAY SIMPLY STOPS MOVING AND WAITS FOR A REVERSAL OF KNOB 6 TO BACK IT UP.

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THE CONTROLS FOR THE PROGRAM ARE AS FOLLOWS:

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SENSE SWITCHES

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- 0 UP FOR ASCII DISPLAY, DOWN FOR WAVEFORM.
 - 1 UP FOR SMALL SIZE NUMBERS AND LETTERS, DOWN FOR LARGE SIZE.
 - 2 UP FOR ASCII CHARACTERS, DOWN FOR OCTAL.
 - 3 UP FOR PACKED ASCII, DOWN FOR UNPACKED ASCII AS GENERATED BY THE LISTAPE INSTRUCTION.
 - 4 UP FOR MOVEABLE DISPLAY, DOWN TO STOP THE DISPLAY MOVEMENT.
 - 5 UP FOR SMALL WAVEFORMS COMPATIBLE WITH THE PDP-12 A/D CONVERTOR, DOWN FOR THE LARGE WAVEFORMS OF THE REGULAR MAGSPY.
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A/D KNOBS

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KNOB 2 CONTROLS THE NUMBER OF LINES OF
TEXT OR NUMBERS DISPLAYED.

KNOB 6 CONTROLS THE SPEED AND DIRECTION
OF DISPLAY MOTION.

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TELETYPE OPTIONS

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DURING THE INITIAL DISPLAY TYPE:

L/F TO BEGIN THE PROGRAM.

D TO RETURN TO DIAL

H TO DISPLAY A HELP FRAME WHICH
EXPLAINS THE SENSE SWITCH OPTIONS

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AFTER THE INITIAL DISPLAY TYPE:

D TO RETURN TO DIAL

R TO REWIND THE TAPE TO BLOCK 0

S TO RESTART THE PROGRAM FOR ANOTHER
BLOCK AND UNIT NUMBER

H TO DISPLAY THE HELP FRAME

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PRECAUTION

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IF A TAPE OF SHORTER LENGTH THAN
THE PROGRAM IS SET FOR IS USED
AND AN END ZONE IS ENCOUNTERED,
THE TAPE WILL ROCK BACK AND FORTH
INDEFINITELY. TO RECOVER STOP THE
PROGRAM AND RESTART IT AT 4020
(IE I/O PRESET AND START 20).

TO RESET THE PROGRAM FOR
SHORTER TAPES IN ORDER TO PREVENT
THIS, CHANGE THE FOLLOWING
LOCATIONS.

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PUT THE MAXIMUM BLOCK+2 INTO
LOCATION 2357 (CURRENTLY 1607).

PUT -(MAXIMUM BLOCK+1) INTO
LOCATION 5634 (CURRENTLY 6177).

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THE PROGRAM WILL THEN VIEW FROM
0 THROUGH THE MAXIMUM BLOCK.

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END OF WRITE UP FOR MAGSPYD

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