

DRIVER PROGRAM PROCEDURES

RTE HP 2767 LINE PRINTER DRIVER (DVR12)


HP Order No. 24169-60001 (current version)

and

DOS HP 2767 LINE PRINTER DRIVER (DVR12)

HP Order No. 24168-60001 (current version)



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## RTE AND DOS HP 2767 LINE PRINTER DRIVERS (DVR12)

These drivers operate the HP 2767 Line Printer through EXEC calls to the RTE or the DOS system. The structure of these drivers is described in the *Real-Time Software* manual (HP 02116-9139), the *Disc Operating System* manual (HP 02116-91748) and *Moving-Head Disc Operating System* manual (HP 02116-91779).

When a user program makes a READ/WRITE EXEC call to the HP 2767 Line Printer, the driver, DVR12, interprets the first character in the line as a carriage control character and prints it as a space.\* The control characters have the following meanings:

| <u>Control Character</u> | <u>Meaning</u>                            |
|--------------------------|---|
| blank                    | Single space (print on every line),       |
| Ø                        | Double space (print on every other line), |
| 1                        | Eject page,                               |
| *                        | Suppress space (overprint current line),  |
| others                   | Single space.                             |

Each printed line is followed by a single space unless suppressed by the control character asterisk (\*). Double spacing requires an additional single space prior to printing the next line. If the last line of a page is printed and the following line contains a "1", then a completely blank page occurs.

When a user program makes an EXEC call for I/O CONTROL with the function bits in the CONWD (or the ICNWD) set to 11<sub>g</sub>, the optional parameter PARAM (or IPRAM) word defines the format action to be performed by the Line Printer:



\*DVR12 checks for certain program names (ALGOL, FTN, ASMB, LOADR, EDIT for RTE; ALGOL, FTN, ASMB, LOADR, JOBPR for DOS); for these programs it prints the first character of each line and generates a single space.



| <u>Parameter Word (Decimal)</u> | <u>Meaning</u>                                      |
|---------------------------------|---|
| <Ø                              | Page eject;   |
| Ø                               | Suppress space on the next print operation only;    |
| 1 to 55                         | Space 1 to 55 lines, do not ignore page boundaries; |
| 56 to 63                        | Use carriage control channel equal to word - 55;    |
| 64                              | } Perform no action (driver exits without error).   |
| 65                              |   |

### CARRIAGE CONTROL CHANNELS

If the parameter word is 56 to 63, then the Line Printer spaces using the carriage control channels, which have the following meanings:

|           |   |
|-----------|---|
| Channel 1 | Single space with automatic page eject,             |
| Channel 2 | Skip to next even line with automatic page eject,   |
| Channel 3 | Skip to next triple line with automatic page eject, |
| Channel 4 | Skip to next 1/2 page boundary,                     |
| Channel 5 | Skip to next 1/4 page boundary,                     |
| Channel 6 | Skip to next 1/6 page boundary,                     |
| Channel 7 | Skip to bottom of the page,                         |
| Channel 8 | Skip to top of next page.                           |



