A new format of TV Storage Dump and keyboard program is included on the front end of this software system. You will notice the new wording of options 3 and 4 , and that 5 and 6 are missing.

Pressing option 3 (octal program) will initially result in the familiar register display. However, subsequent operations are somewhat different.

Press the space Bar. You will notice the page of octal bytes is one line shoreer. The major difference is an arrow at the top left pointing to byte 000000 presently. This pointer indicates the byte where programming might take place if desired (since 000000 is in read only memory, no change is possible.) This pointer may be preset by entering the page ( $H$ ) and byte (L) similar the H\&L presetting operation of the older DG OP System's keyboard programming system. Try entering $H 070$ and then Ll23. Notice where the pointer has now moved to. Since this is RAM area in a 16 K or greater system, the observed byte may be changed by entering the desired data. e.g. 321 could be entered from the keyboard. Notice the bottom line "scratchpad effect." The actual data is not entered at the indicated address until after the final entry. Emergency abort may be done by pressing the "reset key" on the system prior to the final entry, with no affect on memory.

The cursor may be incrementally moved around the screen. The Digital Group keyboard with cursor control keys allows the usex to move the pointer in the direction indicated by the cursor keys. Keyboards different from this one can move the pointer about if a control H , control J , control K , or control $L$ is entered.

The system will return to the Op sys by pressing an $R$ or $r$ on the keyboard. Option 4 (Hex Program) is sinilar to Option 3 except that the display is in Hex.

## Command Summary

Space - New memory display page
H 000 (HH) - Erosct page (octal or hex)
L 000 (HH) - Presot byte (octal of hex) R - Returr to Op sys
H CTRI, - Move pointer backward
J CTPL - Move pointer down
K CTTRL - Move pointer up
L CTRL - Move pointur forward $000(\mathrm{HH})$ - Insert (octal or hex)code at indicated byte


| 204865 | 366 | 840 |  | 0630 | NTEST | OR | 040 | \＃RESTORE NUMEER |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| W04070 | 365 |  |  | 6590 |  | PUSH | Q |  |
| 204271 | 206 | 011 |  | 8700 |  | LD | B， 011 |  |
| 204273 | 315 | 370 | 200 | 8710 | SKIF | CALI | 000372 | －Spher |
| 004276 | 020 | 373 |  | 2720 |  | DJNZ | SkIP |  |
| 204180 | 361 |  |  | 2730 |  | POP | AF |  |
| 204101 | 315 | 251 | 004 | 8740 |  | CALL | ASCIIS |  |
| 0.04104 | 167 |  |  | e750 |  | LD | （HL），A |  |
| 004105 | 043 |  |  | 0760 |  | INC | HL |  |
| 204106 | 345 |  |  | 0778 | DCONV | PJSE | HL |  |
| LD 5107 | 215 | 346 | 000 | 0780 |  | CALL | 000345 | ＊ERASE TV |
| Q04112 | 321 |  |  | 2790 |  | POP | DE | 湤卫T HL INTO DE |
| 804113 | 32三 |  |  | 2802 |  | PJSH | Di | ＊EACK TO NORMAL |
| ED4114 | 142 |  |  | 0818 |  | LD | H，D | ＊POINTEA ON DISPLAYED |
| Q24115 | 173 |  |  | 0822 |  | LD | A，E |  |
| $0 \cup 4116$ | 376 | 122 |  | 0830 | PAGE1 | CP | 132 |  |
| 804122 | DED | 084 |  | 0.340 |  | JR | iv C，PAG |  |
| 204122 | 256 | 200 |  | 里边 |  | L D | L，OQ |  |
| R04124 | 030 | 812 |  | 6960 |  | J ¢ | PSTART |  |
| 204126 | 376 | 264 |  | 2370 | PAGE2 | C？ | 264 |  |
| 204132 | 060 | 864 |  | 8988 |  | $J R$ | NC，PAG |  |
| 384132 | 255 | 132 |  | ¢890 |  | L ${ }^{\text {d }}$ | L， 132 |  |
| 004134 | 230 | Q42 |  | 0900 |  | JR | PSTAFT |  |
| 204135 | 256 | 264 |  | 2910 | PAGE3 | L．D | I， 254 | 7 |
| 204140 | 134 |  |  | 8920 | PSTART | L． | I，H |  |
| 304141 | 315 | 106 | 802 | 2930 |  | CALL | 202106 | $\cdots$ CPARACTER |
| 204144 | 135 |  |  | 8940 |  | L D | E，L |  |
| 204145 | 215 | 185 | 202 | 0950 |  | CALE | 002106 |  |
| 204150 | 315 | 378 | 400 | e962 |  | CALL | 800378 | ＊SPACD |
| 824153 | 315 | 378 | CQC | 2978． |  | CALL | 020378 | ＊SPACE |
| 004156 | 286 | 105 |  | 8998 |  | LD | E， 206 |  |
| $20 \pm 108$ | 321 |  |  | 0990 | BYTE | POP | DE | ＊PUT STACK ${ }^{\text {HI }}$ IN DE |
| 224161 | 345 |  |  | 1080 |  | PJSH | HL |  |
| 204102 | 325 |  |  | 1012 |  | PUSH | DE |  |
| 104163 | 355 | 122 |  | 1220 |  | SBC | AL，DE | ＊SEE IF DOINTER AXRE？ |
| 204165 | Q 50 | Q2E |  | 1232 |  | $J R$ | Z，POIN |  |
| 204167 | 315 | 370 | 200 | 1040 |  | CALL | 200370 | －space |
| 204172 | 030 | 005 |  | 1050 |  | JR | CONTIN |  |
| 264174 | 275 | 232 |  | 1200 | FOINTR | L D | A，232 | \％ARFOw |
| 204176 | 315 | 372 | Q02 | 1070 |  | CSLL | 000372 | －Antc |
| 204201 | 321 |  |  | 1098 | CONTIN | POP | D 5 |  |
| 224222 | 341 |  |  | 1092 |  | POP | HL |  |
| ＜64203 | 325 |  |  | 1100 |  | 3 JSH | DE |  |
| 以く4204 | 136 |  |  | 1110 |  | LD | ¢，（ML） | 7 |
| 284205 | 315 | 100 | 802 | 1120 |  | CALL | 202186 | $\therefore P R I V T$ BYTE－ |
| と04210 | 8.43 |  |  | 1130 |  | INC | HL |  |
| $00 \leq 211$ | 175 |  |  | 1140 |  | LD | A，L |  |
| 204212 | 376 | 132 |  | $11 こ$ 右 |  | CP | 132 |  |
| 824214 | 312 | 355 | 183 | 1168 |  | J P | Z，KEY |  |
| D04217 | 376 | 264 |  | 1170 |  | CP | 264 |  |
| 204221 | 312 | 355 | 203 | 1180 |  | JP | Z，KTY |  |
| ¢04224 | 276 | 000 |  | 1198 |  | C？ | 000 |  |
| Q04226 | $04{ }^{\circ}$ | 012 |  | 1200 | ． | JR | NZ，NBY＇ |  |
| Q84232 | 206 | Q18 |  | 1210 |  | LI | B． 810 | coys |
| 804232 | 315 | 370 | ロめ® | 1228 | SKIP7 | CALL | 000370 | －Star |
| 204235 | 820 | 373 |  | 1230 |  | DJNZ | SKIP7 |  |
| 204237 | 383 | $3 こ 5$ | 203 | 1248 |  | JP | KEY |  |
| 804242 | 022 | 314 |  | 1250 | NBYTE | DJNZ | BITE |  |
| 204244 | 030 | 272 |  | 1268 |  | J？ | PSTARI |  |
| 204245 | 315 | 250 | 201 | 1270 | ASCII | CALL | Q01250 | $\because K E Y B O A R D \# E N T R Y$ |
| 204251 | 107 |  |  | 1220 | $\begin{gathered} \text { ASCIIS } \\ -5 \end{gathered}$ | LD | B．$\lambda$ |  |
| - digita | $\text { al } g$ | $\mathrm{oup}_{1}$ | Cft．w | ，inc． | p．o．box 1086 |  | 6 arvad | a，colorado 80001 |



