| 4Z <u>-</u> | | | | |
|-------------|---|------------|-----------------------------|------------------------------------|
| 25 | RDBUFF | MACRO | &INDEV,&BUFADR,&RECLTH,&EOR | |
| 27 | &EORCT | SET | %NITEMS (&EOR) | |
| 30 | | CLEAR | X | CLEAR LOOP COUNTER |
| 35 | | CLEAR | \mathbf{A}_{-} | |
| 45 | | +LDT | #4096 | SET MAX LENGTH = 4096 |
| 50 | \$LOOP | ${f TD}$ | =X'&INDEV' | TEST INPUT DEVICE |
| 55 | | JEQ . | \$LOOP | LOOP UNTIL READY |
| 60 | | RD | =X'&INDEV' | READ CHARACTER INTO REG A |
| 63 | &CTR | SET | 1. | |
| 64 | | WHILE | (&CTR LE &EORCT) | |
| 65 | | COMP | =X'0000&EOR[&CTR]' | |
| 70 | | JEQ. | \$EXIT | |
| 71 | &CTR | SET | &CTR+1 | |
| 73 | | ENDW | • | |
| 75 | | STCH | &BUFADR,X | STORE CHARACTER IN BUFFER |
| 80 | | TIXR | T | LOOP UNLESS MAXIMUM LENGTH |
| 85 | | JIT | \$LOOP | HAS BEEN REACHED |
| 90 | SEXIT | STX | &RECL/TH | SAVE RECORD LENGTH |
| 100 | 4 — ~ ≈ | MEND | | : |
| | | ; | | * |
| (a) | | | | |
| | | | | |
| | RDBUFF F2, BUFFER, LENGTH, (00, 03, 04) | | | |
| | | • | | |
| 30 | | CLEAR | X | CLEAR LOOP COUNTER |
| 35 | | CLEAR | A | CHERE DOOL COOLLING |
| 7 11 | | | #4096 | SET MAX LENGTH = 4096 |
| 45 50 | SAALOOP | +LDT TD | =X'F2' | TEST INPUT DEVICE |
| 55 | SWALKOOF | JEQ | SAALOOP | LOOP UNTIL READY |
| :53 :60 | | RD | ⇒X′F2′ | READ CHARACTER INTO REG A |
| 65 | | COMP | =X'000000' | Minth Creating First Art 1 1000 11 |
| 70 | | JEO | \$AAEXIT | |
| 65 | , | COMP | =X'000003' | : |
| 70 | | JEQ | \$AAEXIT | |
| 7.0 65 | | COMP | =X'000004' | |
| | | | | |
| 70 | | JEQ | \$AAEXIT | STORE CHARACTER IN BUFFER |
| 75 80 | | STCH | BUFFER,X | |
| 973 | ** | TIXR | ${f T}$ | LOOP UNLESS MAXIMUM LENGTH |

(b)

HAS BEEN REACHED

SAVE RECORD LENGTH

Figure 4.9 Use of macro-time looping statements.

JLT

STX

\$AALOOP

LENGTH

85

90

SAAEXIT