

⋮

```

SSSSSSSS MM MM GGGGGGG TTTTTTTTT RRRRRRR MM MM MM MM AAAAAA CCCCCCCC
SSSSSSSS MM MM GGGGGGG TTTTTTTTT RRRRRRR MM MM MM MM AAAAAA CCCCCCCC
SS MMMM MMMM GG TT RR RR MMMM MMMM MMMM MMMM AA AA CC
SS MMMM MMMM GG TT RR RR MMMM MMMM MMMM MMMM AA AA CC
SS MM MM MM GG TT RR RR MM MM MM MM AA AA CC
SS MM MM MM GG TT RRRRRRR MM MM MM MM AA AA CC
SS MM MM MM GG TT RRRRRRR MM MM MM MM AA AA CC
SS MM MM MM GG TT RR RR MM MM MM MM AAAAAAAAAA CC
SS MM MM MM GG GGGGG TT RR RR MM MM MM MM AAAAAAAAAA CC
SS MM MM MM GG GGGGG TT RR RR MM MM MM MM AA AA CC
SS MM MM MM GG GGGGG TT RR RR MM MM MM MM AA AA CC
SS MM MM MM GG GGGGG TT RR RR MM MM MM MM AA AA CC
SSSSSSSS MM MM GGGGGG TTT TTT TTT TTT RR RR RR MM MM MM MM AA AA CCCCCCCC
SSSSSSSS MM MM GGGGGG TTT TTT TTT TTT RR RR RR MM MM MM MM AA AA CCCCCCCC

```

```

RRRRRRRR EEEEEEEEE QQQQQQ
RRRRRRRR EEEEEEEEE QQQQQQ
RR RR EE QQ QQ
RR RR EE QQ QQ
RR RR EE QQ QQ
RRRRRRRR EEEEEEEEE QQ QQ
RRRRRRRR EEEEEEEEE QQ QQ
RR RR EE QQ QQ
RR RR EE QQ QQ
RR RR EE QQ QQ
RR RR EE QQ QQ
RR RR EEEEEEEEE QQQQ QQ
RR RR EEEEEEEEE QQQQ QQ

```

XTITLE 'SMGTRMMAC.REQ - Macros for TERMTABLE'
Module: SMGTRMMAC.REQ Edit: PLL1001

```

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!+ FACILITY: Screen Management

ABSTRACT:

This require file contains macros used in the creation of TERMTABLE.EXE.

MODIFIED BY:

1-001 - Original. PLL 30-JAN-1984

+ Macro \$INCR_CAP_STRING_SIZE

Add the specified number of bytes to the capability string size.
We may be dealing with a negative size if extra processing is needed.

```

MACRO $INCR_CAP_STRING_SIZE (NUMBER_BYTES, STRING_SIZE) =
BEGIN
  IF .STRING_SIZE LSS 0
  THEN
    STRING_SIZE = .STRING_SIZE - NUMBER_BYTES
  ELSE
    STRING_SIZE = .STRING_SIZE + NUMBER_BYTES;
END;%

```

!+

SRJLJC

```
! Macro $INCR_CUR_DATA_BYTE
```

```
! Update the currently available data byte by the number of bytes
! just written. If this is the first byte of the string, then we
! also wrote a byte count.
```

```
MACRO $INCR_CUR_DATA_BYTE (NUMBER_BYTES, FIRST_FLAG) =
BEGIN
  AP [PARAM_L_CUR_DATA_BYTE] = .AP [PARAM_L_CUR_DATA_BYTE] +
    NUMBER_BYTES +
    (IF FIRST_FLAG
     THEN 2      ! 1 for size, 1 for kind
     ELSE 0);

  SMG$$DATA_OFFSET = .SMG$$DATA_OFFSET + NUMBER_BYTES +
    (IF FIRST_FLAG
     THEN 2
     ELSE 0);
END; %;
```

```
!+
! Macro to update the size of an arithmetic capability. This size
! will be negative.
```

```
MACRO $UPDATE_ARITH_STRING_SIZE (NUMBER_BYTES) =
BEGIN
  BIND
  CAP_PTRS = .AP [PARAM_L_CUR_TERM_DEF] : VECTOR [,WORD];
  LOCAL
  CAP_SIZE : REF VECTOR [,BYTE,SIGNED];

  CAP_SIZE = .AP [PARAM_L_CUR_TERM_DEF] +
    .CAP_PTRS [.AP [PARAM_L_CUR_CAP_NUMBER]];

  CAP_SIZE [0] = .CAP_SIZE [0] - NUMBER_BYTES;
END; %;
```

```
!+
! We fill buffers with data and then do a block I/O write when we reach
! the end of a definition or when the buffer is full. Here we check to
! see if the buffer is full (ie. if there is room for the number of bytes
! we are about to put in it).
```

```
MACRO $CHECK_BUFFER_OVERFLOW (BYTES_TO_WRITE) =
BEGIN
  LOCAL
  REMAINING_BYTES;
  REMAINING_BYTES = SMG$K CAP DATA SIZE -
    (.AP [PARAM_L_CUR_DATA_BYTE] - .AP [PARAM_A_CAP_DATA]);
  IF BYTES_TO_WRITE GTR .REMAINING_BYTES
  THEN
```

SMGTRMMAC.REQ;1

END;X; CALLG (.AP, SMGSSWRITE_DATA);

! End of file SMGTRMMAC.REQ

SAC

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