


```

SSSSSSSS MM MM GGGGGGGG KK KK CCCCCCCC BBBB8888
SSSSSSSS MM MM GGGGGGGG KK KK CCCCCCCC BBBB8888
SS M M M M GG KK KK CC BB BB
SS M M M M GG KK KK CC BB BB
SS M M M M GG KK KK CC BB BB
SSSSSS MM MM GG KKKKKK CC BBBB8888
SSSSSS MM MM GG KKKKKK CC BBBB8888
SS MM MM GG GGGGGG KK KK CC BB BB
SS MM MM GG GGGGGG KK KK CC BB BB
SS MM MM GG GG KK KK CC BB BB
SSSSSS MM MM GGGGGG KK KK CCCCCCCC BBBB8888
SSSSSS MM MM GGGGGG KK KK CCCCCCCC BBBB8888

```

```

SSSSSSSS DDDDDDDD LL
SSSSSSSS DDDDDDDD LL
SS DD DD LL
SS DD DD LL
SS DD DD LL
SS DD DD LL
SSSSSS DD DD LL
SSSSSS DD DD LL
SS DD DD LL
SS DD DD LL
SS DD DD LL
SSSSSS DDDDDDDD LLLLLLLLLL
SSSSSS DDDDDDDD LLLLLLLLLL

```

MODULE KCBDEF IDENT "1-002"; { Screen Management Keyboard Control Block (KCB)
 { File: SMGKCB.SDL, Edit: PLL1002

```
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{
{ Author: Steven B. Lionel, 10-February-1983
{
{ 1-001 - Original. SBL 10-Feb-1983
{ 1-002 - Added device name string and length. PLL 21-Jun-1983
{--
```

```
{+
{ The Screen Management Keyboard Control Block (KCB) contains state information
{ about a particular virtual keyboard.
{-
```

AGGREGATE KCB_STRUCT STRUCTURE PREFIX KCB_ MARKER KCB_ ORIGIN KCB;

```
EFN LONGWORD; { Event flag number
union1 UNION;
  CHANNEL WORD; { I/O channel for SQIO
  IFI WORD; { Internal file identifier for RMS
END union1;
AST_CHANNEL WORD; { I/O channel for AST declarations
KQB_ADDRESS; { Address of corresponding KQB
CHECK LONGWORD; { Consistency check value
OLD_DEVDEPEND1 LONGWORD; { Previous DEVDEPEND1
OLD_DEVDEPEND2 LONGWORD; { Previous DEVDEPEND2
DEVCHAR LONGWORD; { Device characteristics
TERMCHAR STRUCTURE; { Terminal characteristics
  DEVCLASS BYTE; { Device class
  DEVTYPE BYTE; { Device type
  PAGE_WIDTH WORD; { Page width
DEVDEPEND1 LONGWORD; { Device dependent information
DEVDEPEND2 LONGWORD; { More device dependent information
```

```

END TERMCHAR;
PASTEBOARD ID LONGWORD;      { Id of associated pasteboard
FLAGS STRUCTURE;             { Local state flags
RMS BITFIELD;                 { Read using RMS
CTRLZ BITFIELD;              { ^Z was typed at end of last read
CHARS_CHANGED BITFIELD;      { Term. characteristics changed
KPDSEQ_DECCRT BITFIELD;      { Keypad change seq is DECCRT compat.
dummy3 BITFIELD LENGTH 28 FILL;
END FLAGS;

CONSTANT ORIGIN_OFFSET EQUALS :: { Offset of zero-origin

KCB UNION;                    { Zero-origin of data structure
RAB STRUCTURE;                { RMS Record Access Block (dummy decl)
  dummy4 BYTE FILL;
END RAB;
Q101 STRUCTURE;               { $Q10W argument list to read a line
  Q101_ARGCNT LONGWORD;       { Argument count
  CONSTANT Q101_ARGCNT EQUALS 12; { 12 arguments to $Q10W
  Q101_EFN LONGWORD;          { Event flag number
  Q101_CHAN LONGWORD;         { I/O channel
  Q101_FUNC LONGWORD;         { Function code
  Q101_IOSB ADDRESS;          { Address of IOSB
  Q101_ASTADR ADDRESS;        { AST routine address
  Q101_ASTPRM LONGWORD;       { AST routine parameter
  Q101_P1 LONGWORD;           { Parameter P1
  Q101_P2 LONGWORD;           { Parameter P2
  Q101_P3 LONGWORD;           { Parameter P3
  Q101_P4 LONGWORD;           { Parameter P4
  Q101_P5 LONGWORD;           { Parameter P5
  Q101_P6 LONGWORD;           { Parameter P6
END Q101;
END KCB;                       { End of RAB-Q101 union
Q102 STRUCTURE;               { $Q10W argument list to read a character
  Q102_ARGCNT LONGWORD;       { Argument count
  CONSTANT Q102_ARGCNT EQUALS 12; { 12 arguments to $Q10W
  Q102_EFN LONGWORD;          { Event flag number
  Q102_CHAN LONGWORD;         { I/O channel
  Q102_FUNC LONGWORD;         { Function code
  Q102_IOSB ADDRESS;          { Address of IOSB
  Q102_ASTADR ADDRESS;        { AST routine address
  Q102_ASTPRM LONGWORD;       { AST routine parameter
  Q102_P1 LONGWORD;           { Parameter P1
  Q102_P2 LONGWORD;           { Parameter P2
  Q102_P3 LONGWORD;           { Parameter P3
  Q102_P4 LONGWORD;           { Parameter P4
  Q102_P5 LONGWORD;           { Parameter P5
  Q102_P6 LONGWORD;           { Parameter P6
END Q102;
IOSB STRUCTURE;               { I/O status block
  IOSB_STATUS WORD;           { Status
  IOSB_COUNT WORD UNSIGNED;   { Count
  IOSB_TERMINATOR BYTE UNSIGNED; { Terminator
  reserved BYTE FILL;         { reserved
  IOSB_TERMLEN BYTE UNSIGNED; { Length of terminator
  IOSB_POS BYTE UNSIGNED;     { Position of cursor

```

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END IOSB;
DEVNAM_LENGTH WORD; { Length of device name string
DFVNAM_STRING CHARACTER LENGTH 64; { Resultant device name string
END KCB STRUCT;
END_MODULE RCBDEF;

SYMBOLS
LIS

SMGRTL

SMGBLDRM
MAP

SDAMSG
LIS

VAXINST
LIS

SMGMAPTRM
MAP

SMGKCB
SDL

VALIDATE
LIS

STACKS
LIS

SMGDEF
SDL

SMGKDE
SDL

SMGSHR
MAP